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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 phomust be notified 2 days prior to liner inspection)	otos of the liner integrity if applicable (Note: appropriate OCD District office
X Laboratory analyses of final sampling (Note: appropriate	ODC District office must be notified 2 days prior to final sampling)
X Description of remediation activities	
and regulations all operators are required to report and/or file c may endanger public health or the environment. The acceptant should their operations have failed to adequately investigate an human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or respectively.	mplete to the best of my knowledge and understand that pursuant to OCD rules ertain release notifications and perform corrective actions for releases which ce of a C-141 report by the OCD does not relieve the operator of liability and remediate contamination that pose a threat to groundwater, surface water, see of a C-141 report does not relieve the operator of responsibility for egulations. The responsible party acknowledges they must substantially the conditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete.
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dale Woodall	Date:
email:dale.woodall@dvn.com	Telephone: <u>575-748-1838</u>
OCD Only	
Received by: Robert Hamlet	Date: <u>3/7/2023</u>
	party of liability should their operations have failed to adequately investigate and face water, human health, or the environment nor does not relieve the responsible and/or regulations.
Closure Approved by: Robert Hamlet	Date: 3/7/2023
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced

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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?	18(ft bgs)
Did this release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X 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 X No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes X 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 X 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 X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X 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 X 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.
- $\overline{\overline{X}}$ Field data
- $\overline{\overline{X}}$ Data table of soil contaminant concentration data
- X Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- X 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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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Dale Woodall Title: Env. Professional Signature: Dals Woodall Date: 12/2/2022 email: dale.woodall@dvn.com Telephone: <u>575-748-1838</u> **OCD Only** Jocelyn Harimon 12/02/2022 Received by:

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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.		
 X Detailed description of proposed remediation technique X Scaled sitemap with GPS coordinates showing delineation point X Estimated volume of material to be remediated X Closure criteria is to Table 1 specifications subject to 19.15.29.1 X Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC	
Deferral Requests Only: Each of the following items must be con-	afirmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.		
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.	
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of	
email: dale.woodall@dvn.com	Telephone: _575-748-1838	
OCD Only		
Received by: Jocelyn Harimon	Date:12/02/2022	
☐ Approved with Attached Conditions of	Approval	
Signature:	<u>Date:</u>	

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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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.

Note: appropriate OCD District office must be notified 2 days prior to liner inspection)	
X Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
∑ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and remuman health or the environment. In addition, OCD acceptance of a	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name: Dale Woodall	Title:Env. Professional
Signature: Dale Woodall	
email: dale.woodall@dvn.com	Telephone:
OCD Only	
Received by: Jocelyn Harimon	Date:12/02/2022
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:
_	



November 17, 2022 Vertex Project #: 22E-01417

Spill Closure Report: Papas Fritas 27 CTB 1

Unit O, Section 27, Township 23 South, Range 29 East

API: N/A County: Eddy

Incident Reports: nAPP2129171458, nAPP2127146416 and nAPP221094425

Prepared For: Devon Energy Production Company

6488 Seven Rivers Highway Artesia, New Mexico 88210

New Mexico Oil Conservation Division - District 2 - Artesia

811 S. 1st Street

Artesia, New Mexico 88210

Devon Energy Production Company (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Spill Assessment and Closure for multiple produced water releases at Papas Fritas 27 CTB 1 (hereafter referred to as "Papas Fritas"). Devon submitted an initial C-141 Release Notification (Attachment 1) to the New Mexico Oil Conservation Division (NMOCD) District 2 on September 28, 2021. Incident ID numbers nAPP2129171458 and nAPP2127146416 were assigned to the incidents.

This letter provides a description of the release assessment and remediation activities that demonstrate that closure criteria established in Table I of 19.15.29.12 *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) are being met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for the closure of these releases. This is with the understanding that restoration of the release site will be deferred until such time as all oil and gas activities are terminated and the site is reclaimed per 19.15.29.13 of NMAC.

Incident Descriptions

nAPP221094425

The release for nAPP2129171458 occurred near the storage tanks. The cause of the release is unknown. The incident resulted in the release of 13 barrels of produced water into the containment. No fluids were recovered from the release. No oil or produced water was released into waterways.

nAPP2127146416 and nAPP2129171458

The release for nAPP2127146416 and nAPP2129171458 occurred on the north/northwest side of the containment at Papas Fritas when the water-transfer pump developed a leak. The fluid traveled north and northwest of the oil tanks and released into the pasture north of the pad. The horizontal extent of the release was approximately 336 feet long and 301 feet wide. After the release, a vacuum truck was brought on-site to recover the fluids. Approximately

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120 barrels of fluids were recovered. No oil or produced water was released into waterways.

Site Characterization

The releases at Devon's Papas Fritas site occurred on federal land at 32.271611° N, 103.969944° W, approximately 6.4 miles southwest of Malaga, New Mexico. The legal description for the site is Unit O, Section 27, Township 23 South, Range 29 East in Eddy 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.

Papas Fritas is typical of oil and gas exploration and production sites on the western portion of the Permian Basin and is currently being used for oil and gas production and storage. The following sections specifically describe the release areas on the north side of the pad (Attachment 2).

The nearest active well to Papas Fritas is a New Mexico Office of the State Engineer (NMOSE) monitoring well located approximately 1.06 miles northwest of the site (United States Department of the Interior, United States Geological Survey, 2021). Data from 2000 shows the NMOSE well had a depth to groundwater of 18 feet below ground surface (bgs). Information pertaining to the depth to groundwater determination is included in Attachment 4.

The surrounding landscape is associated with plains, interdunes, and dunes. With elevations ranging between 2,700 and 5,500 feet. The climate is semiarid with average annual precipitation ranging between 5 and 15 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be black grama. Grasses with shrubs and half-shrubs dominate the historic plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2021). Limited to no vegetation is allowed to grow on the compacted production pad, right of way, and access road.

The Geological Map of New Mexico indicates the surface geology at Papas Fritas is comprised primarily of Qep – Eolian and Piedmont deposits from the Holocene to lower Pleistocene ages (New Mexico Bureau of Geology and Mineral Resources, 2022). The United States Department of Agriculture Web Soil Survey characterizes the soil at the site as Pajarito Loamy Fine Sand. The soil is well-drained with a very low runoff. The karst geology potential for Papas Fritas is medium (United States Department of the Interior, Bureau of Land Management, 2018).

There is no surface water located at Papas Fritas. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located 0.67 miles west of the site. At Papas Fritas, there are no continuously flowing water courses or significant watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Closure Criteria Determination

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

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Based on the data included in the closure criteria determination worksheet, the releases at Papas Fritas are subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC. There are no active water wells within a half-mile of the site to accurately determine the depth to groundwater; therefore, the closure criteria for the incident will assume NMOCD's strictest criteria and are determined to be associated with the following constituent concentration limits.

Table 1. Closure Criteria for Soils Impacted by a Release		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/I TDS	Constituent	Limit
< 50 feet	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS - Total dissolved solids

Liner Inspection

nAPP221094425

On May 11, 2022, Vertex provided 48-hour notification of the liner inspection to NMOCD District 2 as required by Subparagraph (a) of Paragraph (5) of Subsection A 19.15.29.11 NMAC (Attachment 5). On May 14, 2022, Vertex was on-site to conduct an inspection of the lined containment and verify that the liner was intact and had the ability to contain the release. The Daily Field Report and associated photographs of the liner inspection are included in Attachment 6. The inspection confirmed the liner remained intact and had the ability to contain the release.

Remedial Actions

nAPP2127146416 and nAPP2129171458

On October 6, 2021, Safety & Environmental Solutions, Inc. (SESI) conducted initial site assessment activities through field screening procedures. Characterization sample points for SESI's delineation are included on Figure 1 (Attachment 2). Characterization sample analytical data from SESI's delineation are summarized in Attachment 3. Vertex was not affiliated with the initial site characterization or work plan. Remediation fieldwork was completed by Carmona Resources and confirmatory sampling was completed by Vertex. SESI's full remediation work plan is included in Attachment 9.

Excavation of impacted soils was conducted between September 23, 2022, and October 27, 2022. A Vertex representative was on-site from October 5 to 27, 2022, to conduct field screen procedures to determine the final horizontal and vertical extents of the excavation area. Initial and final Daily Field Reports and associated photographs are included in Attachment 6.

Between September 26 and October 25, 2022, Vertex provided three 48-hour notifications of confirmation sampling to NMOCD (Attachment 5), as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC. Between vertex.ca

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

BTEX - Benzene, toluene, ethylbenzene, and xylenes

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October 3 and 27, 2022, Vertex collected a total of 148 five-point composite confirmatory samples from the base and side walls of the excavation, at depths ranging between the ground surface and 4 feet bgs. Confirmation sample points are included on Figure 3 (Attachment 2). Each composite sample was representative of no more than 200 square feet per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC, which does not require prior NMOCD approval. The composite samples were placed into laboratory-provided containers, preserved on ice, and submitted to a National Environmental Laboratory Accreditation Program-approved laboratory for chemical analysis. On October 27, 2022, excavation was completed. The final total square footage of the excavation was 22,382 square feet.

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

A GeoExplorer 7000 Series Trimble global positioning system (GPS) unit, was used to map the approximate center of each of the five-point composite samples. The confirmatory sample locations are presented in Figure 3 (Attachment 2). Relevant equipment and prominent features/reference points at the site are mapped as well.

Closure Request

Vertex recommends no additional action to address the remediation area at Papas Fritas. Laboratory analyses of confirmation samples collected at Papas Fritas show final confirmatory values below NMOCD closure criteria for areas where depth to groundwater is less than 50 feet bgs as presented in Table 1. There are no anticipated risks to human, ecological, or hydrological receptors at this release site.

Vertex requests that these incidents (nAPP2129171458, nAPP2127146416, and nAPP221094425) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Devon certifies that all information in this report and the attachments is correct and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the remediation area at Papas Fritas.

2022 Spill Assessment and Closure November 2022

Should you have any questions or concerns, please do not hesitate to contact Kent Stallings at 346.814.1413 or KStallings@vertex.ca.

Chance Dixon	November 17, 2022
Chance Dixon, B.Sc.	Date
SR. ENVIRONMENTAL TECHNICIAN, REPORTING	
	November 17, 2022
Kent Stallings, P.G.	Date
PROJECT MANAGER, REPORT REVIEW	

Attachments

Attachment 2. Figures

Attachment 3. Summarized Laboratory Data Tables

Attachment 4. Closure Criteria for Soils Impacted by a Release Research Determination Documentation
Attachment 5. Required 48-hour Notifications of Liner Inspection and Confirmatory Sampling to NMOCD

Attachment 6. Daily Field Reports with Photographs

Attachment 7. Laboratory Data Reports and Chain of Custody Forms

Attachment 8. Extension Denial After 90 Days from NMOCD

Attachment 9. Safety & Environmental Solution Inc.'s Remediation Workplan

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- United State Fish and Wildlife Service. (2022). *National Wetland Inventory Surface Waters and Wetland*. Retrieved from https://www.fws.gov/wetlands/data/mapper.html

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Limitations

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

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

ATTACHMENT 1

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2210924425
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Release Notification

Responsible Party

Responsible Party Devon Energy Production Company			luction Compan	y OGRID (5137
Contact Name Wesley Mathews				Contact Te	elephone
Contact emai	il Wesley	.Mathews@dvr	n.com	Incident #	(assigned by OCD)
Contact mail	ing address	6488 Seven R	ivers Hwy Artes	sia, NM 88210	
			Location	of Release So	ource
Latitude 32	2.271611		(NAD 83 in dec	Longitude _ imal degrees to 5 decin	-103.969944 nal places)
Site Name	Papas Frita	as 27 CTB 1		Site Type	Oil
Date Release	Discovered	04/18/2022		API# (if app	licable)
Unit Letter	Section	Township	Range	Coun	uty
0	27	23S	29E	Edd	y
Surface Owner		X Federal Tr	Nature and	l Volume of I	
Crude Oil		Volume Release		calculations or specific	justification for the volumes provided below) Volume Recovered (bbls)
X Produced	Water			<u> </u>	Volume Recovered (bbls) 0 BBLS
X Produced Water Volume Released (bbls) 13 BBLS			ion of dissolved ch		Yes No
Condensate Volume Released (bbls)			Volume Recovered (bbls)		
Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)		
Other (de	scribe)	Volume/Weight	Released (provide	units)	Volume/Weight Recovered (provide units)
Cause of Rele	ease: Pinho	le developed on	a water line.		,

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ate of New Mexico	Incident ID	nAPP221092442
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Application ID		

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 X No	
If VES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
ii 125, was iiiiiediate ik	succe given to the GCB. 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
X The source of the rele	ease has been stopped.
	as been secured to protect human health and the environment.
X Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
X All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
has begun, please attach	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
public health or the environr	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
addition, OCD acceptance o	ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

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Incident ID	nAPP2210924425
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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?	(ft bgs)
Did this release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X 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 X No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X 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 X 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 X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X 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 X No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver	tical 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.
- X Field data
- X Data table of soil contaminant concentration data
- X Depth to water determination
- ☑ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- X 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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Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	included in the plan.
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.1 Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con-	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility
☐ Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:Dale Woodall	Title: Env. Professional
Signature: Dale Woodall	Date: 12/2/2022
email: dale.woodall@dvn.com	Telephone: <u>575-748-1838</u>
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of	Approval
Signature:	Date:

Received by OCD: 12/2/2022 2:04:46 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

Incident ID nAPP2210924425
District RP
Facility ID
Application ID

Closure

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

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

X A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
X Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
X Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
X Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name: Dale Woodall	_ Title:Env. Professional
- 1 1 1 11	Date: 12/2/2022
email: _dale.woodall@dvn.com	Telephone: <u>575-748-1838</u>
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:
-	

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

Responsible Party Devon Energy Production Company

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2127146416
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID 6137

Contact Name Wesley Mathews				Contact 7	Contact Telephone	
Contact email Wesley.Mathews@dvn.com				Incident	Incident # (assigned by OCD)	
Contact mail	ing address	6488 Seven Ri	vers Hwy Arte	sia, NM 88210		
Location of Release Source Latitude 32.271611 Longitude -103.969944 (NAD 83 in decimal degrees to 5 decimal places)						
Site Name	Papas Frita	s 27 CTB 1		Site Type	Oil	
Date Release	Discovered	9/28/2021		API# (if ap	oplicable)	
Unit Letter Section Township Range County O 27 23S 29E Eddy Surface Owner: State X 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)						
▼ Volume Released (bbls)150.32 BBLS Is the concentration of dissolved chlorid produced water >10,000 mg/1?				Volume Reco	overed (bbls)120 BBLS	
Condensa	ite	Volume Release			Volume Recovered (bbls)	
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)			e units)	Volume/Wei	ght Recovered (provide units)	
Cause of Release: Transfer pump developed a leak.						

Received by OCD: 12/2/2022 2:04:46 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

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Incident ID	nAPP2127146416
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?	
release as defined by	The release was more than 25 barrels.	
19.15.29.7(A) NMAC?		
X Yes No		
If YES, was immediate no	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	
X The source of the rele	ease has been stopped.	
X The impacted area ha	is been secured to protect human health and the environment.	
X Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
X All free liquids and re	ecoverable materials have been removed and managed appropriately.	
If all the actions described	d above have <u>not</u> been undertaken, explain why:	
	s according to the second and continuents, companies to the second and continuents to the second	
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 info	rmation 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	
	ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atteand remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In	
addition, OCD acceptance o	of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws	
and/or regulations.		
Printed Name:	Title:	
Signature:	Date:	
email:	Telephone:	
	<u>. </u>	
OCD Only		
	Date:	
Received by.	Date	

Page 22 of 380

Incident ID	nAPP2127146416
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes X No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X 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 X No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X 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 X 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 X No	
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No	
Are the lateral extents of the release overlying a subsurface mine?	Yes X 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?		
Did the release impact areas not on an exploration, development, production, or storage site?		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 ∑ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. ∑ Field data ∑ Data table of soil contaminant concentration data ∑ Depth to water determination ∑ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release ☐ Boring or excavation logs ∑ Photographs including date and GIS information ∑ Topographic/Aerial maps ☐ Laboratory data including chain of custody 		

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

Received by OCD: 12/2/2022 2:04:46 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 25 0] 50
Incident ID	nAPP2127146416
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Dale Woodall	Title: Env. Professional	
Signature: Dals Woodall	Date: <u>12/2/2022</u>	
email: dale.woodall@dvn.com	Telephone: 575-748-1838	
OCD Only		
Received by:	Date:	

Incident ID	nAPP2127146416
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.			
 ✓ Detailed description of proposed remediation technique ✓ Scaled sitemap with GPS coordinates showing delineation points ✓ Estimated volume of material to be remediated ✓ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC 			
X Proposed schedule for remediation (note if remediation plan tim	eline is more than 90 days OCD approval is required)		
<u>Deferral Requests Only</u> : Each of the following items must be con	firmed as part of any request for deferral of remediation.		
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility		
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: Dale Woodall	Title: Env. Professional		
Signature: Dals Woodall	Date: 12/2/2022		
email: _dale.woodall@dnv.com	Telephone: <u>575-748-1838</u>		
OCD Only			
OCD OILLY			
Received by:	Date:		
☐ Approved ☐ Approved with Attached Conditions of	Approval		
Signature:	Date:		

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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Incident ID	nAPP2127146416
District RP	
Facility ID	
Application ID	

Closure

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

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

X Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office	
X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)		
\overline{X} Description of remediation activities		
and regulations all operators are required to report and/or file certainay endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and requirement and the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the confidence with 19.15.29.13 NMAC including notification to the Conf	ations. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title: Env. Professional	
email: daie.woodaii(w/dvn.com	Telephone:	
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by:	Date:	
Printed Name:	Title:	

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party OGRID						
Contact Name Contact			Contact Te	Telephone		
Contact email In			Incident #	(assigned by OCD))	
Contact mail	ing address			1		
			Location	of Release So	ource	
Latitude			(NAD 83 in dec	Longitude _cimal degrees to 5 decim	nal places)	
Site Name				Site Type		
Date Release	Discovered			API# (if app	licable)	
Unit Letter	Section	Township	Range	Coun	ity	
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)				e volumes provided below) overed (bbls)		
Crude Oil		Volume Release			Volume Reco	, ,
	duced Water Volume Released (bbls) Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?		Yes N			
Condensa	te	Volume Release	d (bbls)		Volume Recovered (bbls)	
Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)		Volume/Weig	ght Recovered (provide units)			
Cause of Rele	ease					

Received by OCD: 12/2/2022 2:04:46 PM1 State of New Mexico
Page 2 Oil Conservation Division

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_	_						

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
☐ Yes ☐ No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?
	Initial Ro	esponse
The responsible p	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
☐ All free liquids and re	ecoverable materials have been removed and	l managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	why:
		emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred
		lease attach all information needed for closure evaluation.
		pest of my knowledge and understand that pursuant to OCD rules and
		fications and perform corrective actions for releases which may endanger ICD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a thre	at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
_		mid.
Printed Name:	0 //	Title:
Signature: Nendra	De Hoyos	Date:
		Telephone:
· · · · · · · · · · · · · · · · · · ·		Telephone.
OCD Only		
Received by: Ramona N	Marcus	Date: 11/9/2021
Received by	Marcus	Date:

Page 28 of 380

Incident ID	nAPP2129171458
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	18(ft bgs)		
Did this release impact groundwater or surface water?	Yes X No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X 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 X No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes X 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 X 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 X No		
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No		
Are the lateral extents of the release overlying a subsurface mine?	Yes X 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 X 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.
- X Field data
- X Data table of soil contaminant concentration data
- X Depth to water determination
- X Boring or excavation logs
- X Photographs including date and GIS information
- 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.

Received by OCD: 12/2/2022 2:04:46 PM Form C-141 State of New Mexico Oil Conservation Division Page 4

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Incident ID	nAPP2129171458
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Dale Woodall	Title: Env. Professional	
Signature: Dale Woodall	Date:12-2-2022	
email:dale.woodall@dvn.com	Telephone: _575-748-1838	
OCD Only		
Received by:	Date:	

	Page 30 of 3	80
Incident ID	nAPP2129171458	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.		
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation points ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC ☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 		
Deferral Requests Only: Each of the following items must be con-	firmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Dale Woodall	Title: Env. Specialist	
Signature: Dale Woodall	Date: 12/2/2022	
email: dale.woodall@dvn.com	Telephone:575-748-1838	
OCD Only		
Received by:	Date:	
Approved	Approval	
Signature:	Date:	

Received by OCD: 12/2/2022 2:04:46 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

Incident ID nAPP2129171458
District RP
Facility ID
Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following is	items must be included in the closure report.
\overline{X} A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC
X Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
X Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
X Description of remediation activities	
may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the CPrinted Name: Dale Woodall Dale Woodall	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title: Env. Professional
email: _dale.woodall@dvn.com	Telephone: <u>575-748-1838</u>
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Measurements	Of Standing Fluid
Length(Ft)	120
Width(Ft)	60
Depth(in.)	
Total Capacity without tank displacements (bbls)	0.25
No. of 500 bbl Tanks In Standing Fluid	8
No. of Other Tanks In Standing Fluid	
OD Of Other Tanks In Standing Fluid(feet)	16
Total Volume of standing fluid accounting for tank displacement.	22.39

Con	taminated S	Soil measurement	
Area (square feet)		Depth(inches)	
8228.513		0.016	
Cubic Feet of Soil Impacted		10.971	
Barrels of Soil Impacted		1.96	
Soil Type		Clay/Sand	
Barrels of Oil Assuming 100% Saturation		0.29	
Saturation	Fluid present with shovel/backhoe		
Estimated Barrels of Oil Released		0.29	
Free Standing Fluid Only			
Area (square feet)		Depth(inches)	
<u>8228.513</u>		0.016	
Standing fluid		1.956	
Total fluids spilled		2.249	

NAPP2129171458

Con	taminated Soil	measurement
Area (squar		Depth(inches)
29429		0.250
Cubic Feet of Soil Impacted		613.104
Barrels of Soil Impacted		109.29
Soil Type		Clay/Sand
Barrels of Oil	and the second second	16.39
Saturation	Fluid preser	t with shovel/backhoe
Estimated Barrels of Oil Released		16.39
	Free Standing	Fluid Only
Area (square feet)		Depth(inches)
29429		0.250
Standing fluid		109.288
Total flui	ds spilled	125.681
- 10		CONTRACTOR STATE

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 56657

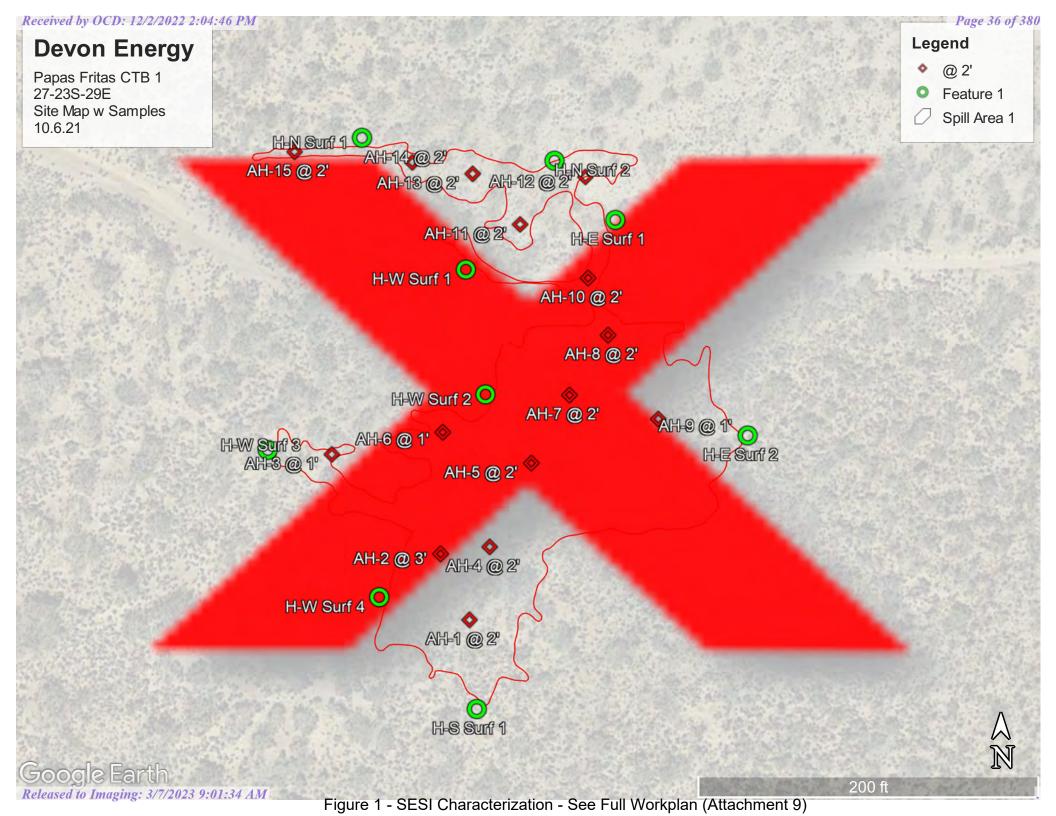
CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	56657
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	11/9/2021

ATTACHMENT 2



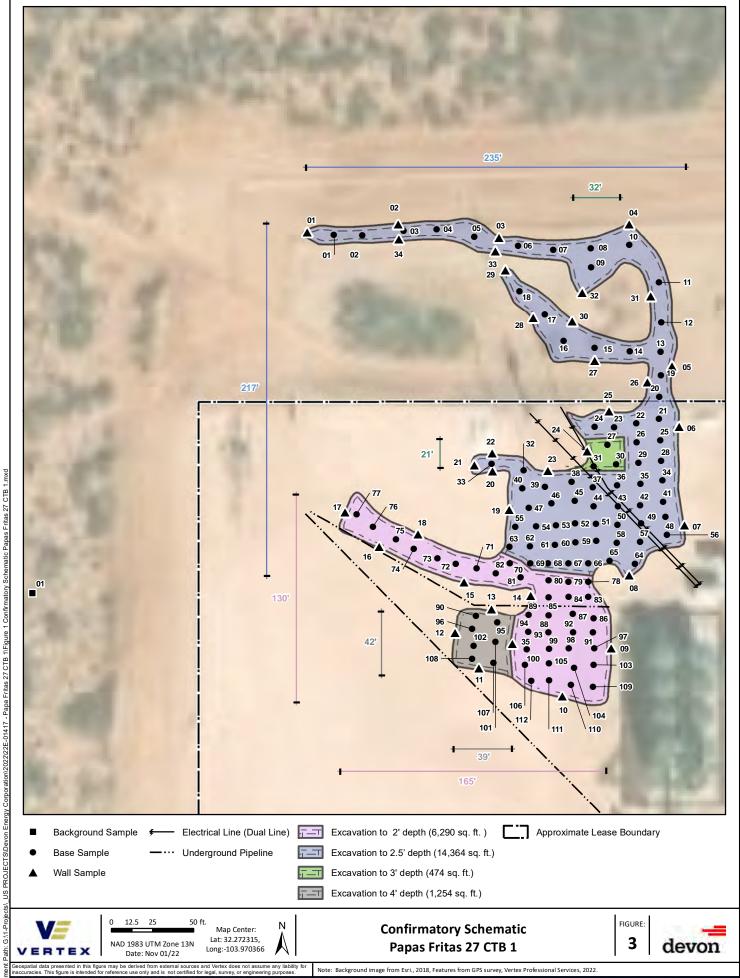


20 ft. 5 10 NAD 1983 UTM Zone 13N Date: Nov 09/22

Map Center: Lat: 32.271803,

Liner Inspection Papas Fritas 27 CTB 1 FIGURE: ² devon

Note: Background imagery from Maxar, 2022. Features from imagery. Vertex Professional Services Ltd., 2022



ATTACHMENT 3

Company Contacts

Representative	Company	Telephone	E-mail
Wes Mathews	Devon Energy	575-578-6195	Wesley.Mathews@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was contracted by Devon Energy to assess a release at the Papas Fritas 27 CTB 1 location. This site is situated in UL O, Section 27, Township 23S and Range 29E, in Lea County New Mexico. We are addressing the release in this plan which will be remediated upon plan approval.

According to the NOR for incident NAPP2113158013, corrosion on a fitting resulted in the release of 150 bbls of produced water. A vacuum truck was dispatched and recovered 125 bbls free-standing fluid.

This workplan addresses two incident numbers, NAPP2113158013 & NAPP2127146416. This single event was documented or reported twice, one is a duplicate.

Surface and Ground Water

According to the NMOCD Oil and Gas Map, there is no surface water within 3,000 feet of this location and spill areas. Depth to groundwater determination was not successfully established based on the guidelines required by NMOCD; therefore, Devon will remediate these spills according to the most stringent criteria set forth by NMOCD in NMAC 19.15.29.

Characterization

The release has been fully delineated both vertically and horizontally, which includes establishing horizontal and vertical extent of delineation to the most stringent standard of 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene.

Release Area (NAPP2113158013), Investigation

SESI personnel tracked and mapped the release and sampled the area to achieve both vertical and horizontal delineation. Samples were taken at the surface and 1-foot intervals until field testing indicated the samples to meet target levels. The horizontal extent samples are denoted on the map with an H beside the sample number. The samples were properly preserved and packaged and sent to Hall Environmental Labs for testing. The results of the analytical are captured in the summary table below.

Table 2 – Field Test Samples

Sample ID	Chloride	TPH	Sample ID	Chloride	TPH
AH-1 @ Surf	NT	NT	AH-9 @ Surf	NT	NT
AH-1 @ 1'	2220	NT	AH-9 @ 1'	<108	07
AH-1 @ 2'	160	01			
			AH-10 @ Surf	NT	NT

AH-2 @ Surf	NT	NT		AH-10 @ 1'	1532	NT
AH-2 @ 1'	2604	NT		AH-10 @ 2'	220	12
AH-2 @ 2'	1648	NT		AH-11 @ Surf	NT	NT
AH-2 @ 3'	160	05		AH-11 @ 1'	1648	NT
				AH-11 @ 2'	108	04
AH-3 @ Surf	NT	NT				
AH-3 @ 1'	160	03		AH-12 @ Surf	NT	NT
				AH-12 @ 1'	1532	NT
				AH-12 @ 2'	188	10
AH-4 @ Surf	NT	NT				
AH-4 @ 1'	1648	NT		AH-13 @ Surf	NT	NT
AH-4 @ 2'	188	05		AH-13 @ 1'	1772	NT
				AH-13 @ 2'	220	09
AH-5 @ Surf	NT	NT				
AH-5 @ 1'	1772	NT		AH-14 @ Surf	NT	NT
AH-5 @ 2'	188	02		AH-14 @ 1'	1648	NT
				AH-14 @ 2'	<108	10
AH-6 @ Surf	NT	NT				
AH-6 @ 1'	<108	01		AH-15 @ Surf	NT	NT
				AH-15 @ 1'	2604	NT
AH-7 @ Surf	NT	NT		AH-15 @ 2'	<108	03
AH-7 @ 1'	1772	NT				
AH-7 @ 2'	188	07				
AH-8 @ Surf	NT	NT				
AH-8 @ 1'	1648	NT				
AH-8 @ 2'	252	04				
		Horizo	ntal Sam	nples		
Sample ID	Chloride	TPH		Sample ID	Chloride	TPH
H-N Surf 1	<108	NT		H-S Surf	252	NT
H-N Surf 2	<108	NT		H-E Surf 1	108	NT
H-W Surf 1	<108	NT		H-E Surf 2	252	NT
H-W Surf 2	220	NT				
H-W Surf 3	220	NT				
H-W Surf 4	252	NT				

Release Area (NAPP2113158013), Action Plan

Based on the results above for vertical extent samples AH-1 through AH-15, SESI respectfully recommends the entire leak of release area be remediated to a depth of 2 to 3 foot where applicable. The excavation area is outlined in the map of this release located in this report. Once this remediation plan is approved, Devon will perform the remediation and all removed soil will be disposed of in an OCD-approved landfill. Devon will then conduct both bottom and sidewall confirmation sampling to ensure all contaminated materials have been removed to the most stringent criteria established by NMOCD. Upon receipt of lab results verifying all contaminants have been removed, Devon will backfill the site with uncontaminated soil. If it becomes apparent that facility equipment and/or structure integrity is compromised, SESI respectfully requests deferment of those areas until a later date. If this happens, pictures of the area of equipment/structures will be provided to provide evidence of deferral necessity.

Client Name: Devon Energy Production Company

Site Name: Papas Fritas 27 CTB 1 NMOCD Tracking #: nAPP2127146416

Project #: 22E-01417

Lab Report(sX): 2210378, 2210428, 2210467, 2210780, 2210837, 2210A33, 2210B03, 2210E68

		able 3. Confirmation				Laborator	y Kesults -				eet bgs		
	Sample Descrip	otion	Fi	eld Screeni	ng	Vol	a+ila	Petrole	eum Hydro		_		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	Extractable Organic	Chloride Concentration	Benzene (mg/kg)	atile (Total) (mg/kg)	යි Gasoline Range Organics ක් (GRO)	B Diesel Range Organics (%) (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	ට Total Petroleum සි Hydrocarbons (TPH)	Chloride Concentration (mg/kg)
BES22-01	2	10/5/2022	0	-	76	ND	ND	ND	ND	ND	ND	ND	ND
BES22-02	2.5	10/19/2022	0	44	360	ND	ND	ND	ND	ND	ND	ND	ND
BES22-03	2	10/5/2022	0	23	75	ND	ND	ND	ND	ND	ND	ND	ND
BES22-04	2.5	10/19/2022	0	1	460	ND	ND	ND	ND	ND	ND	ND	ND
BES22-05	2.5	10/19/2022	0	-	457	ND	ND	ND	ND	ND	ND	ND	ND
BES22-06	2.5	10/19/2022	0	-	457	ND	ND	ND	ND	ND	ND	ND	ND
BES22-07	2.5	10/27/2022	0	-	602	ND	ND	ND	ND	ND	ND	ND	ND
BES22-08	2.5	10/19/2022	0	25	420	ND	ND	ND	ND	ND	ND	ND	ND
BES22-09	2.5	10/19/2022	0	-	512	ND	ND	ND	ND	ND	ND	ND	ND
BES22-10	2.5	10/19/2022	0	-	425	ND	ND	ND	ND	ND	ND	ND	ND
BES22-11	2.5	10/27/2022	0	30	227	ND	ND	ND	ND	ND	ND	ND	ND
BES22-12	2.5	10/19/2022	0	-	617	ND	ND	ND	ND	ND	ND	ND	ND
BES22-13	2.5	10/19/2022	0	15	505	ND	ND	ND	ND	ND	ND	ND	ND
BES22-14	2.5	10/19/2022	0	-	505	ND	ND	ND	ND	ND	ND	ND	ND
BES22-15	2.5	10/19/2022	0	-	235	ND	ND	ND	ND	ND	ND	ND	ND
BES22-16	2	10/5/2022	0	57	385	ND	ND	ND	ND	ND	ND	ND	170
BES22-17	2.5	10/19/2022	0	-	335	ND	ND	ND	ND ND	ND	ND	ND	ND ND
BES22-18	2	10/5/2022	0	-	53 605	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BES22-19	2.5	10/19/2022	0	-		ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND
BES22-20 BES22-21	2	10/5/2022 10/5/2022	0	27	158 163	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	160
BES22-21	2	10/5/2022	0	-	548	ND	ND	ND	ND ND	ND	ND	ND	250
BES22-23	2	10/5/2022	0	_	476	ND	ND	ND	ND	ND	ND	ND	1400
BES22-23	2.5	10/19/2022	0	-	257	ND	ND	ND	ND	ND	ND	ND	ND
BES22-24	2	10/5/2022	0	-	161	ND	ND	ND	ND	ND	ND	ND	ND
BES22-25	2.5	10/19/2022	0	-	532	ND	ND	ND	ND	ND	ND	ND	300
BES22-26	2.5	10/19/2022	0	5	608	ND	ND	ND	ND	ND	ND	ND	97
BES22-27	2.5	10/19/2022	0	-	700	ND	ND	ND	ND	ND	ND	ND	790
BES22-27	3	10/27/2022	0	-	325	ND	ND	ND	ND	ND	ND	ND	ND
BES22-28	2.5	10/18/2022	0	-	325	ND	ND	ND	ND	ND	ND	ND	ND
BES22-29	2.5	10/18/2022	0	-	650	ND	ND	ND	ND	ND	ND	ND	220
BES22-30	2.5	10/18/2022	0	26	285	ND	ND	ND	ND	ND	ND	ND	1600
BES22-30	3	10/27/2022	0	-	305	ND	ND	ND	ND	ND	ND	ND	ND
BES22-31	2.5	10/18/2022	0	-	390	ND	ND	ND	ND	ND	ND	ND	850
BES22-31	3	10/27/2022	0	-	387	ND	ND	ND	ND	ND	ND	ND	ND
BES22-32	2	10/5/2022	0	-	715	ND	ND	ND	ND	ND	ND	ND	210
BES22-33	2	10/5/2022	0	38	373	ND	ND	ND	ND	ND	ND	ND	190
BES22-34	2	10/5/2022	0	-	373	ND	ND	ND	ND	ND	ND	ND	420
BES22-35	2.5	10/18/2022	0	-	289	ND	ND	ND	ND	ND	ND	ND	ND 08
BES22-36	2.5	10/18/2022	0	-	302 267	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	98 390
BES22-37	2.5	10/18/2022	0	- 75	405	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND
BES22-38 BES22-39	2.5	10/18/2022	0	/5 -	80	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BES22-39 BES22-40	2	10/5/2022 10/5/2022	0	-	20	ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND ND
BES22-40 BES22-41	2.5	10/5/2022	0	_	237	ND	ND	ND ND	ND	ND ND	ND ND	ND	ND ND
BES22-41 BES22-42	2.5	10/18/2022	0	_	285	ND	ND	ND	ND	ND	ND	ND	ND
BES22-42 BES22-43	2.5	10/5/2022	0	-	603	ND	ND	ND	ND	ND	ND	ND	580
BES22-44	2.5	10/3/2022	0	18	282	ND	ND	ND	ND	ND	ND	ND	ND
BES22-45	2.3	10/5/2022	0	-	425	ND	ND	ND	ND	ND	ND	ND	250
BES22-45	2	10/5/2022	0	29	118	ND	ND	ND	ND	ND	ND	ND	120
BES22-47	2	10/5/2022	0	-	379	ND	ND	ND	ND	ND	ND	ND	240
BES22-48	2.5	10/14/2022	0	-	320	ND	ND	ND	ND	ND	ND	ND	ND



						nd Laboratory Results - Depth to Groundwater <50 feet bgs							
<u> </u>	Sample Descrip	otion		eld Screeni	ng	Vol	atilo	Petrole	eum Hydro				Inorganis
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	Extractable Organic Gompounds (PetroFlag)	(a) Chloride Concentration	Voli Benzene (mg/kg)	BTEX (Total)	3 Gasoline Range Organics ജ (GRO)	B Diesel Range Organics (SA)	Motor Oil Range Organics Latara (MRO)	(mg/kg)	3 Total Petroleum කි Hydrocarbons (TPH)	(mg/kg)
BES22-49	2.5	10/14/2022	0	-	582	ND	ND	ND	ND	ND	ND	ND	ND
BES22-50	2.5	10/14/2022	0	-	466	ND	ND	ND	ND	ND	ND	ND	ND
BES22-51	2.5	10/14/2022	0	-	397	ND	ND	ND	ND	ND	ND	ND	ND
BES22-52	2	10/14/2022	0	-	557	ND	ND	ND	ND	ND	ND	ND	ND
BES22-53	2.5	10/14/2022	0	-	388	ND	ND	ND	ND	ND	ND	ND	ND
BES22-54 BES22-55	2	10/14/2022	0	-	437 356	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BES22-55 BES22-56	2.5 2.5	10/14/2022 10/14/2022	0	-	312	ND	ND ND	ND ND	ND ND	ND	ND	ND ND	ND
BES22-50 BES22-57	2.5	10/14/2022	0	-	318	ND	ND	ND	ND	ND	ND	ND	ND
BES22-58	2.5	10/14/2022	0	-	567	ND	ND	ND	ND	ND	ND	ND	ND
BES22-59	2.5	10/14/2022	0	-	486	ND	ND	ND	ND	ND	ND	ND	ND
BES22-60	2.5	10/14/2022	0	-	350	ND	ND	ND	ND	49	ND	49	ND
BES22-61	2.5	10/14/2022	0	-	260	ND	ND	ND	ND	ND	ND	ND	ND
BES22-62	2.5	10/14/2022	0	-	346	ND	ND	ND	ND	ND	ND	ND	ND
BES22-63	2.5	10/14/2022	0	-	321	ND	ND	ND	ND	ND	ND	ND	ND
BES22-64	2.5	10/14/2022	0	-	280 213	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 97
BES22-65 BES22-66	2	10/6/2022 10/14/2022	0	-	272	ND	ND	ND ND	ND	ND	ND	ND	ND
BES22-67	2.5	10/6/2022	0	_	792	ND	ND	ND	ND	ND	ND	ND	450
BES22-67	2.5	10/0/2022	0	-	232	ND	ND	ND	ND	ND	ND	ND	ND
BES22-68	2.5	10/14/2022	0	-	481	ND	ND	ND	ND	ND	ND	ND	ND
BES22-69	2.5	10/14/2022	0	-	365	ND	ND	ND	ND	ND	ND	ND	ND
BES22-70	2	10/14/2022	0	58	589	ND	ND	ND	ND	ND	ND	ND	ND
BES22-71	2	10/14/2022	0	-	602	ND	ND	ND	ND	ND	ND	ND	ND
BES22-72	2	10/14/2022	0	-	489	ND	ND	ND	ND	ND	ND	ND	ND
BES22-73	2	10/14/2022	0	-	436	ND	ND	ND	ND	ND	ND	ND	ND
BES22-74	2	10/14/2022	0	-	505 260	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BES22-75	2	10/14/2022 10/14/2022	0	-	382	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND
BES22-76 BES22-77	2	10/14/2022	0	47	561	ND	ND	ND	ND	ND	ND	ND	ND
BES22-78	2	10/14/2022	0	-	477	ND	ND	ND	ND	ND	ND	ND	ND
BES22-79	2	10/14/2022	0	-	568	ND	ND	ND	ND	ND	ND	ND	ND
BES22-80	2	10/14/2022	0	-	529	ND	ND	ND	ND	ND	ND	ND	ND
BES22-81	2	10/14/2022	0	-	457	ND	ND	ND	ND	ND	ND	ND	ND
BES22-82	2	10/14/2022	0	92	228	ND	ND	ND	ND	ND	ND	ND	ND
BES22-83	2	10/14/2022	0	-	610	ND	ND	ND	ND	ND	ND	ND	ND
BES22-84	2	10/14/2022	0	-	720 1,283	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BES22-85 BES22-86	2	10/6/2022 10/13/2022	0	18	342	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BES22-86 BES22-87	2	10/13/2022	0	-	397	ND	ND	ND	ND	ND	ND	ND	ND
BES22-87	2	10/13/2022	0	-	485	ND	ND	ND	ND	ND	ND	ND	ND
BES22-89	2	10/13/2022	0	-	709	ND	ND	ND	ND	ND	ND	ND	ND
BES22-90	4	10/6/2022	0	1	38	ND	ND	ND	ND	ND	ND	ND	ND
BES22-91	2	10/13/2022	0	-	607	ND	ND	ND	ND	ND	ND	ND	ND
BES22-92	2	10/13/2022	0	48	590	ND	ND	ND	ND	ND	ND	ND	ND
BES22-93	2	10/13/2022	0	- 64	532	ND	ND	ND	ND	ND	ND	ND	ND
BES22-94	2	10/13/2022	0	61	246 203	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 90
BES22-95 BES22-96	4	10/6/2022 10/6/2022	0	-	203	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND
BES22-90	2	10/6/2022	0	-	435	ND	ND	ND	ND	ND	ND	ND	ND
BES22-98	2	10/13/2022	0	-	492	ND	ND	ND	ND	ND	ND	ND	ND
BES22-99	2	10/13/2022	0	-	460	ND	ND	ND	ND	ND	ND	ND	ND
BES22-100	2	10/13/2022	0	55	612	ND	ND	ND	ND	ND	ND	ND	ND
BES22-101	4	10/13/2022	0	-	612	ND	ND	ND	ND	ND	ND	ND	ND
BES22-102	4	10/6/2022	0	-	245	ND	ND	ND	ND	ND	ND	ND	180
BES22-103	2	10/13/2022	0	-	447	ND	ND	ND	ND	ND	ND	ND	ND
BES22-104	2	10/6/2022	0	-	493	ND	ND	ND	ND	ND	ND	ND	410



						and Laboratory Results - Depth to Groundwater <50 feet bgs								
9	Sample Descrip	otion	Fie	eld Screeni	ng			Petrole	um Hydro					
			ds			Vol	atile			Extractable	2		Inorganic	
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds මු (PID)	Extractable Organic	Chloride Concentration	Benzene (mg/kg)	න් කී (BTEX (Total)	3 Gasoline Range Organics කි (GRO)	ച്ച Diesel Range Organics ജ (DRO)	යි Motor Oil Range Organics සූ (MRO)	(gRO + DRO)	ට Total Petroleum කි Hydrocarbons (TPH)	ය) (සි (සි) (සි) (සි)	
BES22-105	2	10/13/2022	0	24	252	ND	ND	ND	ND	ND	ND	ND	ND	
BES22-106	2	10/6/2022	0	5	355	ND	ND	ND	ND	ND	ND	ND	150	
BES22-107	4	10/13/2022	0	-	481	ND	ND	ND	ND	ND	ND	ND	ND	
BES22-108	4	10/6/2022	0	-	431	ND	ND	ND	ND	ND	ND	ND	210	
BES22-109	2	10/6/2022	0	-	635	ND	ND	ND	ND	ND	ND	ND	400	
BES22-110	2	10/13/2022	0	-	462	ND	ND	ND	ND	ND	ND	ND	ND	
BES22-111	2	10/13/2022	0	-	477	ND	ND	ND	ND	ND	ND	ND	ND	
BES22-112	2	10/13/2022	0	20	384	ND	ND	ND	ND	ND	ND	ND	ND	
BES22-113	2	10/13/2022	0	-	440	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-01	1	10/7/2022	0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-02	1	10/7/2022	0	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-03	1	10/19/2022	0	64	300	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-04	1	10/19/2022	0	-	429	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-05	1	10/19/2022	0	-	562	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-06	1	10/19/2022	0	-	605	ND	ND	ND	ND	ND	ND	ND	110	
WES22-07	1	10/19/2022	0	-	622	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-08	1	10/18/2022	0	-	297	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-09	1	10/13/2022	0	-	372	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-10	1	10/18/2022	0	79	535	ND	ND	ND	ND	ND	ND	ND	760	
WES22-10	1	10/27/2022	0	37	622	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-11	1	10/18/2022	0	-	345	ND	ND	ND	ND	ND	ND	ND	120	
WES22-12	2	10/7/2022	0	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-13	2	10/18/2022	0	-	190	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-14	2	10/18/2022	0	-	419	ND	ND	ND	ND	ND	ND	ND	160	
WES22-15	1	10/18/2022	0	-	362	ND	ND	ND	ND	ND	ND	ND	66	
WES22-16	1	10/18/2022	0	50	384	ND	ND	ND	ND	ND	ND	ND	130	
WES22-17	1	10/7/2022	0	-	580	ND	ND	ND	ND	ND	ND	ND	350	
WES22-18	1	10/18/2022	0	-	243	ND	ND	ND	ND	ND	ND	ND	180	
WES22-19	1	10/19/2022	0	-	597	ND	ND	ND	ND	ND	ND	ND	89	
WES22-20	1	10/7/2022	0	54	343	ND	ND	ND	ND	ND	ND	ND	330	
WES22-21	1	10/7/2022	0	-	290	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-22	1	10/19/2022	0	-	245	ND	ND	ND	ND	ND	ND	ND	140	
WES22-23	1	10/19/2022	0	17	352	ND	ND	ND	ND	ND	ND	ND	97 ND	
WES22-24	1	10/18/2022	0	-	371	ND	ND	ND	ND	ND	ND	ND	ND 110	
WES22-25	1	10/19/2022	0	-	532	ND	ND	ND	ND	ND	ND	ND	110	
WES22-26	1	10/19/2022	0	-	555	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-27	1	10/19/2022	0	64	428	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-28	1	10/19/2022	0	21	605	ND	ND ND	ND	ND	ND	ND	ND	ND	
WES22-29	1	10/19/2022	0	- 22	490	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 110	
WES22-30	1	10/7/2022	0	23	24 612	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	110 ND	
WES22-31	1	10/19/2022	0	-	540	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
WES22-32	1	10/19/2022	0	-	540	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
WES22-33	1	10/19/2022		-										
WES22-34	1	10/7/2022	0	-	ND 30	ND	ND	ND ND	ND	ND	ND	ND	ND 300	
WES22-35	1	10/7/2022	0	-	20	ND	ND	ND	ND	ND	ND	ND	300	

[&]quot;ND" Not Detected at the Reporting Limit

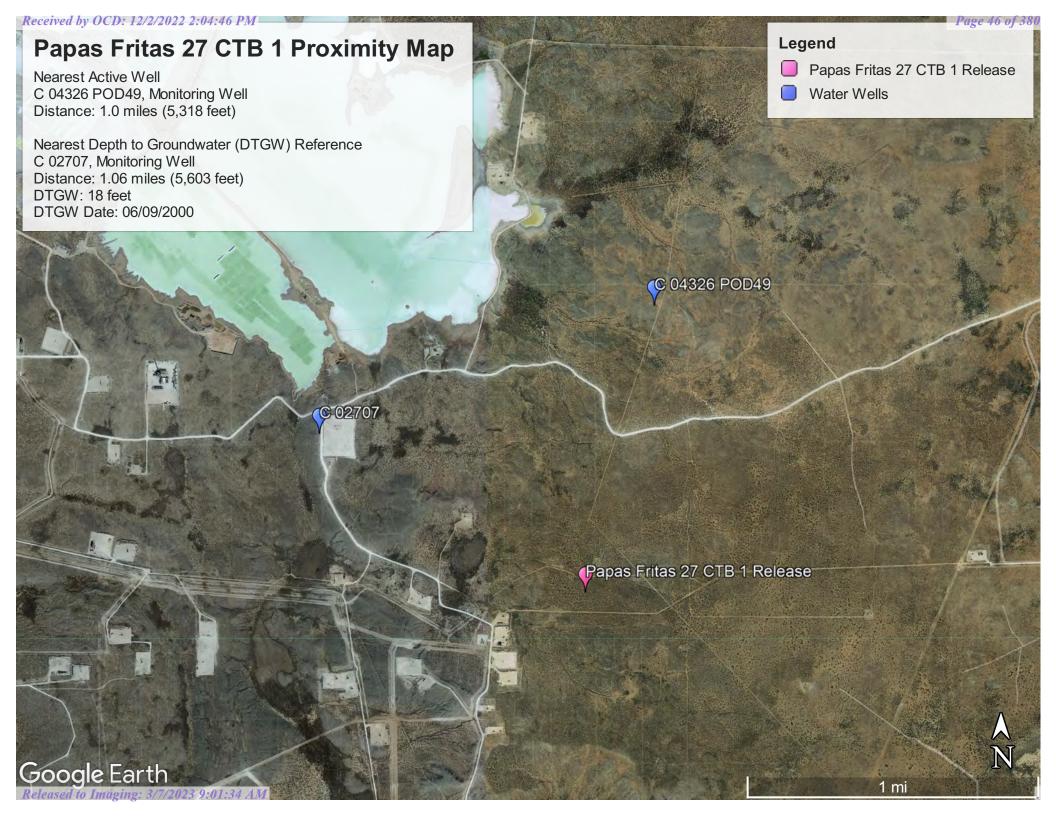
Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)

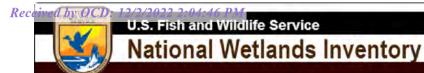
Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (off-pad)



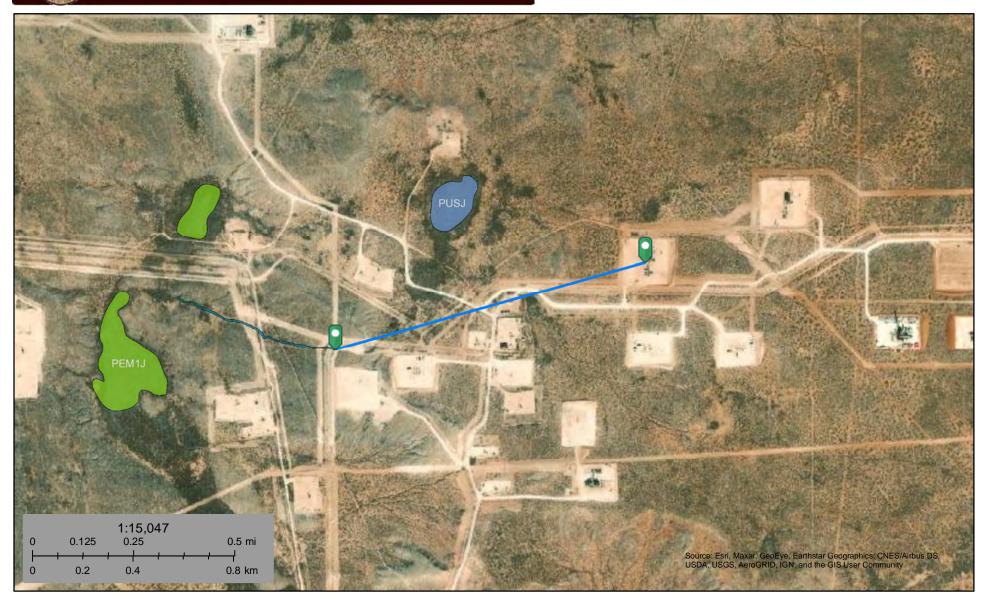
[&]quot;-" indicates not analyzed/assessed

ATTACHMENT 4





Intermittent 3,555 feet



May 3, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Lake

Freshwater Forested/Shrub Wetland

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.



Pond 2,002 feet



May 3, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

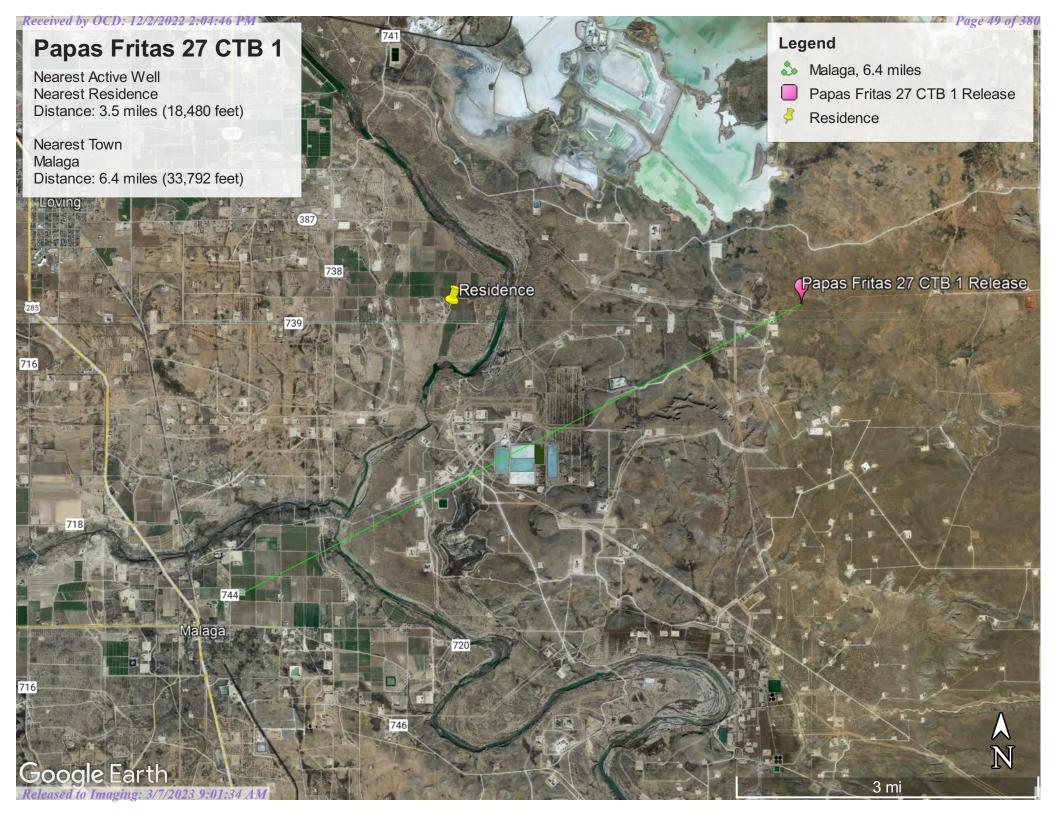






Riverine

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





New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X

NA

C 04326 POD49

2 4 3 23 23S 29E

597378 3572591

0

Driller License:

Driller Company:

Driller Name:

Drill Start Date:

Drill Finish Date:
PCW Rcv Date:

Plug Date:

Source:

Log File Date: Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

Depth Water:

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5/3/22 1:45 PM

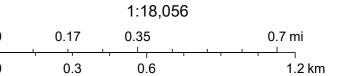
POINT OF DIVERSION SUMMARY

Received by OCD: 12/2/2022 2:04:46 PM

OSE POD Locations 0.5 mile







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 community, U.S. Department of Energy Office of Legacy



New Mexico Office of the State Engineer

Water Right Summary



WR File Number: C 02707

Subbasin: C

Cross Reference:

Primary Purpose:

Primary Status:

PERMIT PMT

Total Acres:

Subfile:

Header: -

Total Diversion:

Contact:

Cause/Case:

Owner:

IMC KALIUM SCOTT VAIL

Documents on File

Status

From/

Doc

File/Act

2 **Transaction Desc.** To

Diversion Consumptive

2000-05-15

PMT LOG C 02707

T

3

Current Points of Diversion

(NAD83 UTM in meters)

POD Number C 02707

Well Tag Source 64Q16Q4Sec Tws Rng

Q

Other Location Desc

Shallow 2 28 23S 29E

An () after northing value indicates UTM location was derived from PLSS - see Help

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5/3/22 1:59 PM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Water Right Summary



WR File Number: C 04326 Subbasin: CUB Cross Reference: -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Agent: LT ENVIRONMENTAL INC

Contact: STUART HYDE, LG
User: XTO ENERGY INC
Contact: KYLE LITTRELL

Documents on File

				Sta	itus		From/			
	Trn#	Doc	File/Act	1	2	Transaction Desc.	To	Acres	Diversion	Consumptive
get images	684112	EXPL	2020-12-28	PMT	APR	C 04326 POD47-53	T	0	0	
get images	681901	EXPL	2020-11-18	PMT	APR	C 04326 POD46	T	0	0	
get images	668116	EXPL	2020-02-24	PMT	APR	C 04326 POD44-45	T	0	0	
get images	663909	EXPL	2020-01-02	PMT	APR	C 04326 POD40-43	T	0	0	
get images		EXPL	2019-10-29	PMT	APR	C 04326 POD30-39	T	0	0	
get images	658978	EXPL	2019-09-20	PMT	APR	C 04326 POD17-29	T	0	0	
get images	648985	EXPL	2019-05-08	PMT	LOG	C 04326 POD1-16	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

			Q								
POD Number	Well Tag	Source	64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
<u>C 04326 POD1</u>	NA		1	2	3	23	23S	29E	598125	3572992	BH01
<u>C 04326 POD10</u>	NA		4	2	3	23	23S	29E	598170	3572882	BH10
<u>C 04326 POD11</u>	NA		4	2	3	23	23S	29E	598221	3572827) BH11
<u>C 04326 POD12</u>	NA		4	2	3	23	23S	29E	598229	3572790	▶BH12
<u>C 04326 POD13</u>	NA		4	2	3	23	23S	29E	598250	3572791	▶BH13
<u>C 04326 POD14</u>	NA	Shallow	4	2	3	23	23S	29E	598191	3572765	BH14
<u>C 04326 POD15</u>	NA		2	4	3	23	23S	29E	598202	3572692	BH15
<u>C 04326 POD16</u>	NA	Shallow	2	4	3	23	23S	29E	598209	3572664	BH16
<u>C 04326 POD17</u>	NA		4	2	3	23	23S	29E	598198	3572729	BH17
<u>C 04326 POD18</u>	NA		4	2	3	23	23S	29E	598169	3572792	BH18
<u>C 04326 POD19</u>	NA		2	4	3	23	23S	29E	598233	3572673	BH19
<u>C 04326 POD2</u>	NA		1	2	3	23	23S	29E	598156	3572980	BH02
<u>C 04326 POD20</u>	NA		2	4	3	23	23S	29E	598250	3572684	BH20
<u>C 04326 POD21</u>	NA		2	4	3	23	23S	29E	598250	3572654	BH21
<u>C 04326 POD22</u>	NA		4	2	3	23	23S	29E	598229	3572722	BH22
<u>C 04326 POD23</u>	NA		1	4	3	23	23S	29E	598166	3572662	BH23
<u>C 04326 POD24</u>	NA		3	2	3	23	23S	29E	598160	3572716	BH24
C 04326 POD25	NA		3	2	3	23	23S	29E	598124	3572747	BH25

Released to Imaging: 3/7/2023 9:01:34 AM

Received	<u> фу. Q 6 В 12/2/2022</u>	2 _N 2;04:46 PM	4	2	3	23	23S 29E	598193	3572746	RW01/BH26
<u>C</u>	04326 POD27	NA	2	4	3	23	23S 29E	598272	3572684	MW01
<u>C (</u>	04326 POD28	NA	2	4	3	23	23S 29E	598205	3572644	MW02
<u>C (</u>	04326 POD29	NA	3	2	3	23	23S 29E	598145	3572769	MW03
<u>C</u>	04326 POD3	NA	1	2	3	23	23S 29E	598156	3572962	BH03
<u>C</u>	04326 POD30	NA	4	2	3	23	23S 29E	598178	3572763	BH-27
<u>C</u>	04326 POD31	NA	4	2	3	23	23S 29E	598259	3572726	BH-28
<u>C</u>	04326 POD32	NA	4	2	3	23	23S 29E	598253	3572726	BH-29
<u>C</u>	04326 POD33	NA	4	2	3	23	23S 29E	598253	3572750	BH-30
<u>C</u>	04326 POD34	NA	2	4	3	23	23S 29E	598266	3572696	BH-31
<u>C</u>	04326 POD35	NA	3	2	3	23	23S 29E	598142	3572767	BH-35
<u>C</u>	04326 POD36	NA	4	2	3	23	23S 29E	598256	3572777	BH-33
<u>C</u>	04326 POD37	NA	4	2	3	23	23S 29E	598282	3572751	BH-34
<u>C</u>	04326 POD38	NA	2	4	3	23	23S 29E	598217	3572633	BH-35
<u>C</u>	04326 POD39	NA	2	4	3	23	23S 29E	598266	3572683	BH-36
<u>C</u>	04326 POD4	NA	1	2	3	23	23S 29E	598136	3572962	BH04
<u>C (</u>	04326 POD40	NA		2	3	23	23S 29E	598115	3572815	BH-37
<u>C</u>	04326 POD41	NA		2	3	23	23S 29E	598098	3572775	BH-38
<u>C</u>	04326 POD42	NA		2	3	23	23S 29E	598113	3572694	BH-39
<u>C</u>	04326 POD43	NA		2	3	23	23S 29E	598154	3572971	BH-40
<u>C</u>	04326 POD44	NA	3	2	3	23	23S 29E	598050	3572781	BH-49
<u>C</u>	04326 POD45	NA	3	2	3	23	23S 29E	598096	3572822	BH-50
<u>C</u>	04326 POD46	NA	3	2	3	23	23S 29E	598132	3572748	BH61
<u>C</u>	04326 POD47	NA	1	4	3	23	23S 29E	598129	3572612	BH54
<u>C</u>	04326 POD48	NA	1	4	3	23	23S 29E	598111	3572597	BH55
<u>C</u>	04326 POD49	NA	2	4	3	23	23S 29E	597378	3572591	BH56
<u>C</u>	04326 POD5	NA	2	2	3	23	23S 29E	598170	3572940	BH05
<u>C</u>	04326 POD50	NA	3	2	3	23	23S 29E	597992	3572782	BH57
<u>C</u>	04326 POD51	NA	3	2	3	23	23S 29E	598035	3572817	BH58
<u>C</u>	04326 POD52	NA	4	2	3	23	23S 29E	598367	3572767	BH59
<u>C</u>	04326 POD53	NA	4	2	3	23	23S 29E	598326	3572820	BH60
<u>C</u>	04326 POD6	NA	1	2	3	23	23S 29E	598125	3572940	BH06
<u>C</u>	04326 POD7	NA	3	2	3	23	23S 29E	598157	3572894	BH07
			_	_						

Page 54 of 380

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598097

598136

3572884 (a) BH08

3572873 BH09

3 2 3 23 23S 29E

3 2 3 23 23S 29E

5/3/22 1:46 PM WATER RIGHT SUMMARY

NA

NA

C 04326 POD8

C 04326 POD9



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

х						(with O	WIICISIII	(R=POD has been replaced and no longer serves this file,	(quarte	rs are 1=	NW 2=	=NE 3=	=SW 4=S			
	Sub	(acre	e ft per annu	um)			Well	C=the file is closed)	(quarte	rs are sm		to large	est)	(NAD	83 UTM in meters	s)
WR File Nbr C 01090		Use EXP	Diversion	n Owner 0 VALLEY LAND COMPANY	County ED	POD Number	Tag	Code Grant	Source	64164	Sec	Tws 24S		X 592563	Y 3568831*	Distance 4955
C 01091		EXP		0 VALLEY LAND CO.	ED	C 01091						24S		592563	3568831*	4955
C 01217	CUB	COM		50 INTREPID MINING NM LLC US BANK	ED	C 01217 S			Shallow					595413	3574403*	3750
C 01627	С	PRO)	NATIONAL ASSOCIATION 0 EXXON CORPORATION	ED	C 01627				1 4 4	28	23S	29E	595649	3570959*	1364
C 02012	С	STK		3 HENRY H GRANDI	ED	<u>C 02012</u>				3	16	23S	29E	594705	3574293*	4012
C 02182	С	PRO)	0 SANTA FE ENERGY	ED	<u>C 02182</u>			Shallow	4	30	23S	29E	592328	3571048*	4685
<u>C 02486</u>	C	PRO	•	0 TEXACO EXPLORATION & PROD.	ED	<u>C 02486</u>				3 2 3	19	23S	30E	601304	3572832*	4661
<u>C 02500</u>	CUB	EXP	•	0 UNITED SALT CORPORATION	ED	<u>C 02500</u>				4 3 2	17	23S	29E	593800	3574791*	4961
C 02608	CUB	EXP	•	0 UNITED SALT CORPORATION	ED	<u>C 02608</u>			Shallow	3 1 4	17	23S	29E	593598	3574387*	4802
C 02613	CUB	EXP	•	0 UNITED SALT CORPORATION	ED	<u>C 02613</u>				4 4 2	20	23S	29E	594203	3573176*	3547
C 02622	CUB	COM	ſ	0 UNITED SALT CORPORATION	ED	<u>C 01217 S</u>			Shallow	4 1 4	16	23S	29E	595413	3574403*	3750
<u>C 02707</u>	C			0 IMC KALIUM	ED	<u>C 02707</u>			Shallow	2	28	23S	29E	595535	3571868*	1708
<u>C 02715</u>	CUB	MON	1	0 UNITED SALT CORPORATION	ED	<u>C 02715</u>				4 1 3	15	23S	29E	596221	3574411*	3491
<u>C 02716</u>	CUB	MON	Ŋ	0 UNITED SALT CORPORATION	ED	<u>C 02716</u>				4 4 4	16	23S	29E	595818	3574002*	3220
C 02717	CUB	MON	Ŋ	0 UNITED SALT CORPORATION	ED	<u>C 02717</u>				4 2 4	16	23S	29E	595817	3574407*	3600
<u>C 02718</u>	CUB	MON	N	0 UNITED SALT CORPORATION	ED	<u>C 02718</u>				4 4 2	16	23S	29E	595816	3574812*	3985
<u>C 02720</u>	CUB	MON	1	0 JOHN WOZNICWICZ	ED	<u>C 02720</u>				2 1	21	23S	29E	594911	3573690*	3405
<u>C 02721</u>	CUB	MON	1	0 JOHN WOZNICWICZ	ED	<u>C 02721</u>				2 3	21	23S	29E	594915	3572879*	2809
<u>C 02794</u>	CUB	MON	1	0 IMC	ED	<u>C 02794</u>				4 3	10	23S	29E	596518	3575731*	4745
C 02795	CUB	MON	1	0 IMC	ED	<u>C 02795</u>				4 3	10	23S	29E	596518	3575731*	4745
C 02797	CUB	MON	N	0 IMC	ED	<u>C 02797</u>				2 3	22	23S	29E	596540	3572895*	1942
<u>C 02808</u>	CUB	MON	N	0 IMC	ED	<u>C 02808</u>				2 3	16	23S	29E	594909	3574501*	4075
C 02809	CUB	MON	1	0 IMC	ED	<u>C 02809</u>				2 3	16	23S	29E	594909	3574501*	4075
C 03057	CUB	EXP	•	0 UNITED SALT CORPORATION	ED	C 03057 EXPLORE				4 1 1	21	23S	29E	594605	3573586*	3525
<u>C 03058</u>	CUB			0 UNITED SALT CORPORATION	ED	C 03058 EXPLORE				4 1 1	16	23S	29E	594605	3575206*	4836
C 03377	С	STK		3 B F & G FARMS	ED	C 03377 POD1				3 3 2	29	23S	29E	593596	3571587	3465
C 03587		MON		0 MOSAIC POTASH CARLSBAD INC	ED	C 03587 POD1			Shallow	1 4 3	29	23S	29E	593337	3570754	3684
<u>C 04326</u>	CUB	MON	1	0 LT ENVIRONMENTAL INC	ED	C 04326 POD1	NA			1 2 3				598124	3572992	2272
					ED	C 04326 POD10				4 2 3				598170	3572882	2200
						C 04326 POD11				4 2 3				598220	3572827	2181
					ED	C 04326 POD12				4 2 3				598228	3572790	2155
					ED	C 04326 POD13			CI 11	4 2 3				598249	3572791	2167
					ED	<u>C 04326 POD14</u> <u>C 04326 POD15</u>			Shallow					598190	3572765	2113
					ED ED	C 04326 POD15			Shallow	2 4 3				598202 598209	3572692 3 572664 3	2059 2040
					ED	C 04326 POD17			Shanow	4 2 3				598198	3572729	2087
					ED	C 04326 POD18				4 2 3				598168	3572792	2123
					ED	C 04326 POD19				2 4 3				598232	3572673	2062
					ED	C 04326 POD2				1 2 3				598156	3572980	2277
					ED	C 04326 POD20				2 4 3				598249	3572684	2080
					ED	C 04326 POD21				2 4 3				598250	3572654	2056
					ED	C 04326 POD22				4 2 3				598228	3572722	2099
					ED	C 04326 POD23				1 4 3				598166	3572662	2014
					ED	C 04326 POD24				3 2 3	23	23S	29E	598160	3572716	2055
					ED	C 04326 POD25				3 2 3	23	23S	29E	598123	3572747	2061
					ED	<u>C 04326 POD26</u>				4 2 3	23	23S	29E	598193	3572746	2099
					ED	<u>C 04326 POD27</u>				2 4 3	23	23S	29E	598272	3572684	2094
					ED	C 04326 POD28				2 4 3	23	23S	29E	598204	3572644	2022
n / ·				/// / / / / / / / / / / / / / / / / / /	ED	C 04326 POD29				3 2 3	23	23S	29E	598145	3572769	2091
Keteased	to In	ıagi	ing: 3/	7/2023 9:01:34 AM												

n	11. OCD. 10	2/2/2022 2:04:46 PM				D	56 -£200
Keceive	a by OCD: 12	2/2/2022 2:04:46 PM	ED <u>C 04326 POD3</u>		1 2 3 23 23S 29E	598156	56 of 380
			ED <u>C 04326 POD30</u>		4 2 3 23 23S 29E	598177 3572763	2104
			ED <u>C 04326 POD31</u>		4 2 3 23 23S 29E	598258 3572726	2120
			ED <u>C 04326 POD32</u>		4 2 3 23 23S 29E	598253 3572726	2116
			ED <u>C 04326 POD33</u>		4 2 3 23 23S 29E	598253 3572750	2136
			ED <u>C 04326 POD34</u>		2 4 3 23 23S 29E	598265 3572696	2099
			ED <u>C 04326 POD35</u>		3 2 3 23 23S 29E	598142 3572767	2088
			ED <u>C 04326 POD36</u>		4 2 3 23 23S 29E	598256 3572777	2160
			ED <u>C 04326 POD37</u>		4 2 3 23 23S 29E	598282 3572751	2154
			ED <u>C 04326 POD38</u>		2 4 3 23 23S 29E	598216 3572633	2019
			ED <u>C 04326 POD39</u>		2 4 3 23 23S 29E	598266 3572683	2090
			ED <u>C 04326 POD4</u>		1 2 3 23 23S 29E	598135 3572962	2251
			ED <u>C 04326 POD40</u>		2 3 23 23S 29E	598114 3572815	2114
			ED <u>C 04326 POD41</u>		2 3 23 23S 29E	598097 3572775	
			ED <u>C 04326 POD42</u>		2 3 23 23S 29E	598113 3572694	
			ED <u>C 04326 POD43</u>		2 3 23 23S 29E	598153 3572971	
			ED <u>C 04326 POD44</u>		3 2 3 23 23S 29E	598050 3572781	
			ED <u>C 04326 POD45</u>		3 2 3 23 23S 29E	598095 3572822	
					3 2 3 23 23S 29E	,	
			<u></u>			598131 3572748	
			ED <u>C 04326 POD47</u>		1 4 3 23 23S 29E	598128 3572612	
			ED <u>C 04326 POD48</u>		1 4 3 23 23S 29E	598111 3572597	
			ED <u>C 04326 POD49</u>		2 4 3 23 23S 29E	597378 3572591	
			ED <u>C 04326 POD5</u>		2 2 3 23 23S 29E	598169 3572940	
			ED <u>C 04326 POD50</u>		3 2 3 23 23S 29E	597992 3572782	2023
			ED <u>C 04326 POD51</u>		3 2 3 23 23S 29E	598034 3572817	2075
			ED <u>C 04326 POD52</u>		4 2 3 23 23S 29E	598366 3572767	2218
			ED <u>C 04326 POD53</u>		4 2 3 23 23S 29E	598325 3572820	2235
			ED <u>C 04326 POD6</u>		1 2 3 23 23S 29E	598125 3572940	2227
			ED <u>C 04326 POD7</u>		3 2 3 23 23S 29E	598157 3572894	2203
			ED <u>C 04326 POD8</u>		3 2 3 23 23S 29E	598097 3572884	2164
			ED <u>C 04326 POD9</u>		3 2 3 23 23S 29E	598136 3572873	2175
<u>C 04456</u>	CUB MON	0 XTO ENERGY INC	ED <u>C 04456 POD1</u>	NA	1 4 3 23 23S 29E	598112 3572682	2000
			ED <u>C 04456 POD2</u>		3 2 3 23 23S 29E	598103 3572791	2087
			ED <u>C 04456 POD3</u>		3 2 3 23 23S 29E	598134 3572815	2124
			ED <u>C 04456 POD4</u>		1 4 1 23 23S 29E	598126 3572657	1987
<u>C 04481</u>	CUB GEO	0 XCEL ENERGY	ED <u>C 04481 POD1</u>	NA	1 3 4 03 24S 29E	596798 3567778	3239
			ED <u>C 04481 POD2</u>		1 3 4 03 24S 29E	596851 3567748	3266
			ED <u>C 04481 POD3</u>		2 4 3 03 24S 29E	596798 3567778	3239
			ED <u>C 04481 POD4</u>		2 4 3 03 24S 29E	596747 3567685	3335
			ED <u>C 04481 POD5</u>		2 4 3 03 24S 29E	596746 3567747	3274
			ED <u>C 04481 POD6</u>		2 4 3 03 24S 29E	596747 3567654	3366
			ED <u>C 04481 POD7</u>		2 4 3 03 14S 29E	596800 3567655	3362
			ED <u>C 04481 POD8</u>		1 3 4 03 24S 29E	596852 3567655	3358
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			ED <u>C 04597 POD10</u>		3 1 4 24 23S 29E	600145 3572875	
			ED <u>C 04597 POD11</u>		4 1 4 24 23S 29E	600606 3572878	
			ED <u>C 04597 POD12</u>		4 1 4 24 23S 29E	600188 3572860	
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			ED <u>C 04597 POD9</u>		3 1 4 24 23S 29E	600173 3572902	3682
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Easting (X): 597013 **Northing (Y):** 3571011 Radius: 5000

Sorted by: File Number

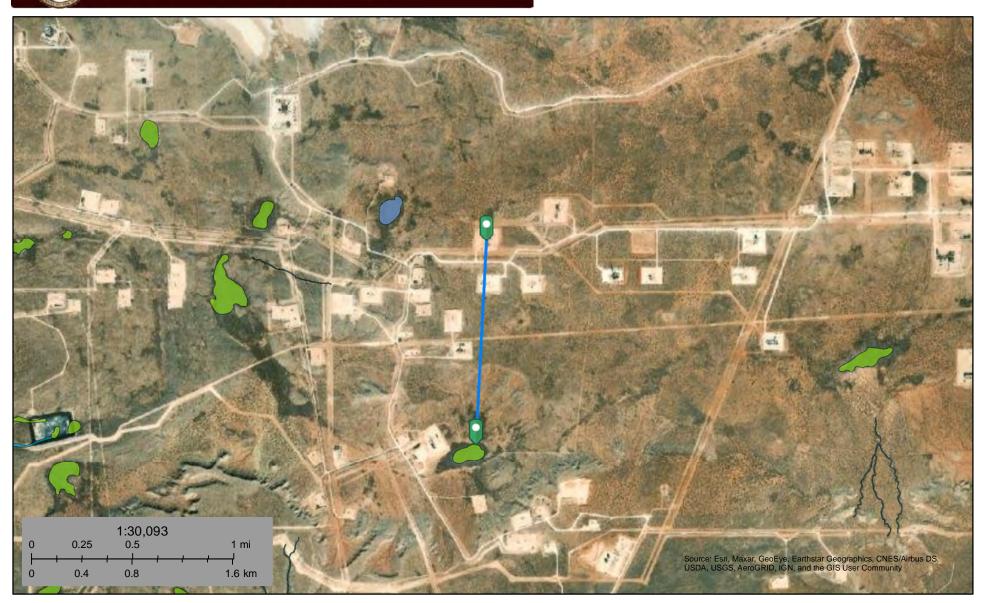
*UTM location was derived from PLSS - see Help

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

5/3/22 1:24 PM ACTIVE & INACTIVE POINTS OF DIVERSION



Wetland 4,486 feet



May 3, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Freshwater Forested/Shrub Wetland

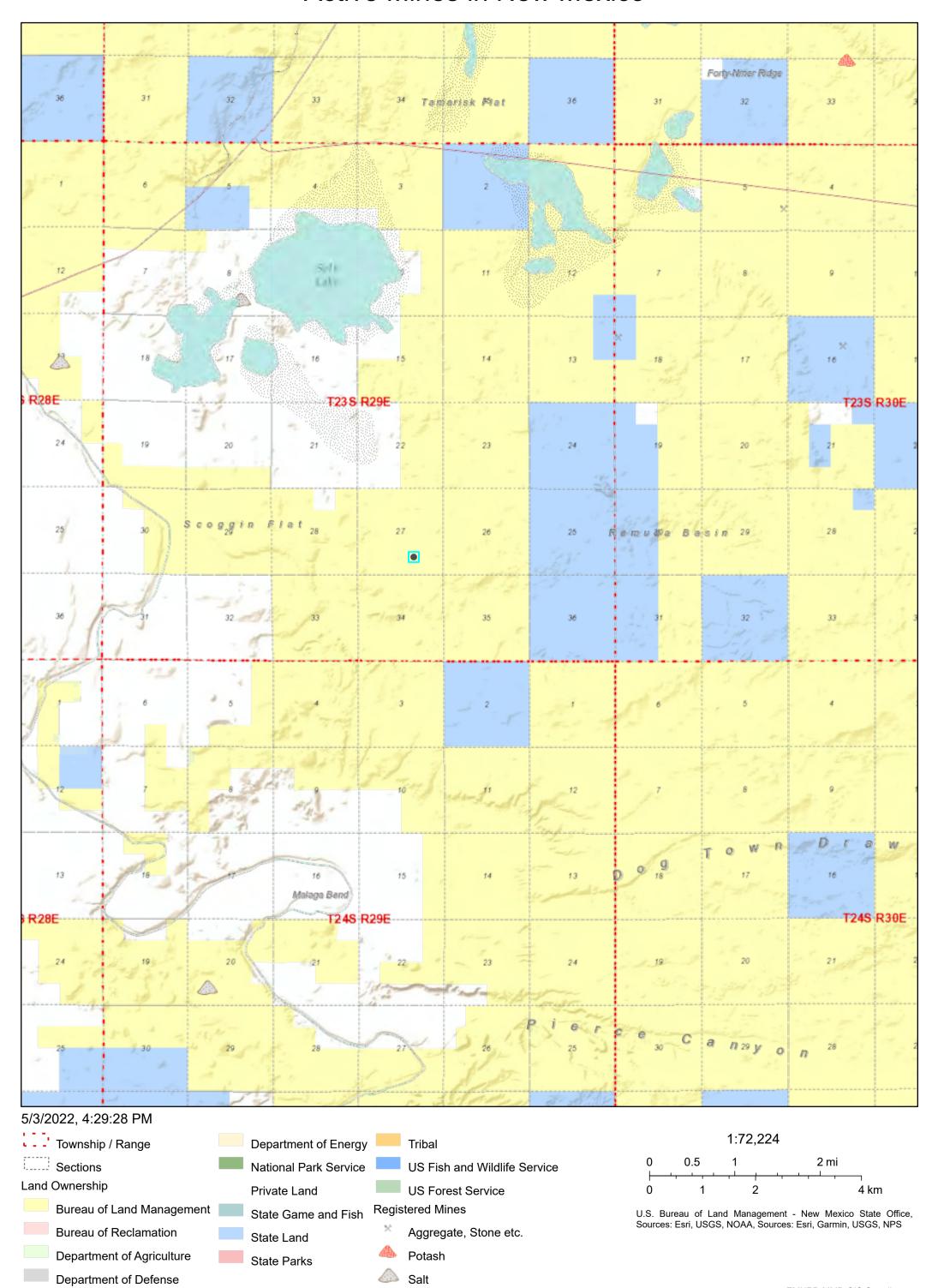
Lake

Other

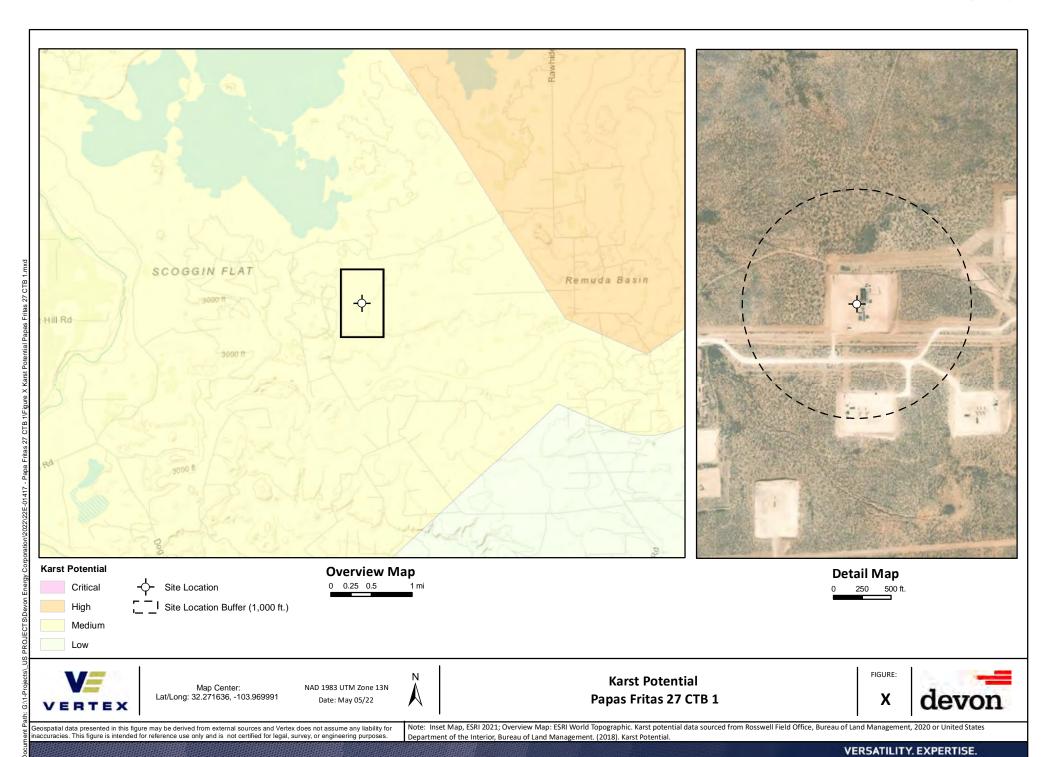
Riverine

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.

Active Mines in New Mexico



Received by OCD: 12/2/2022 2:04:46 PM



Released to Imaging: 3/7/2023 9:01:34 AM

OReleas 250 to Imaging: 3/7/2023 9:999:34 AM

Received by OCD: 12/2/2022 2:04:46 PM National Flood Hazard Layer FIRMette





Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary** --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate

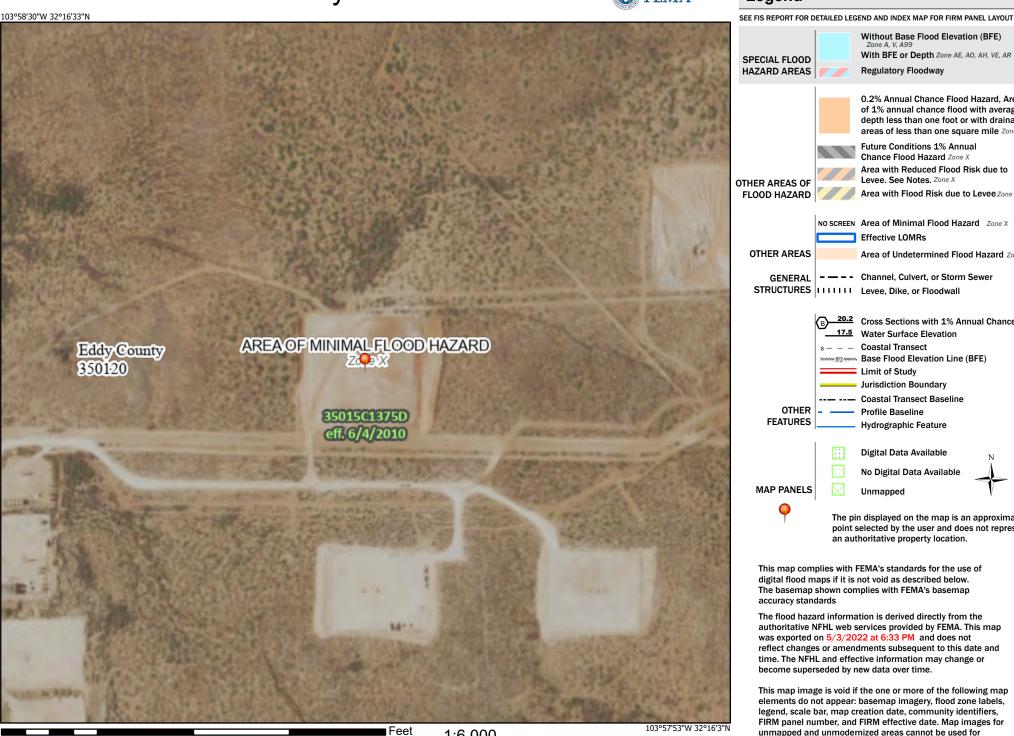
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

point selected by the user and does not represent

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/3/2022 at 6:33 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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





NRCS

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

Custom Soil Resource Report for Eddy Area, 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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How Soil Surveys Are Made

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

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

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

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

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

Custom Soil Resource Report

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

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

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

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

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

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

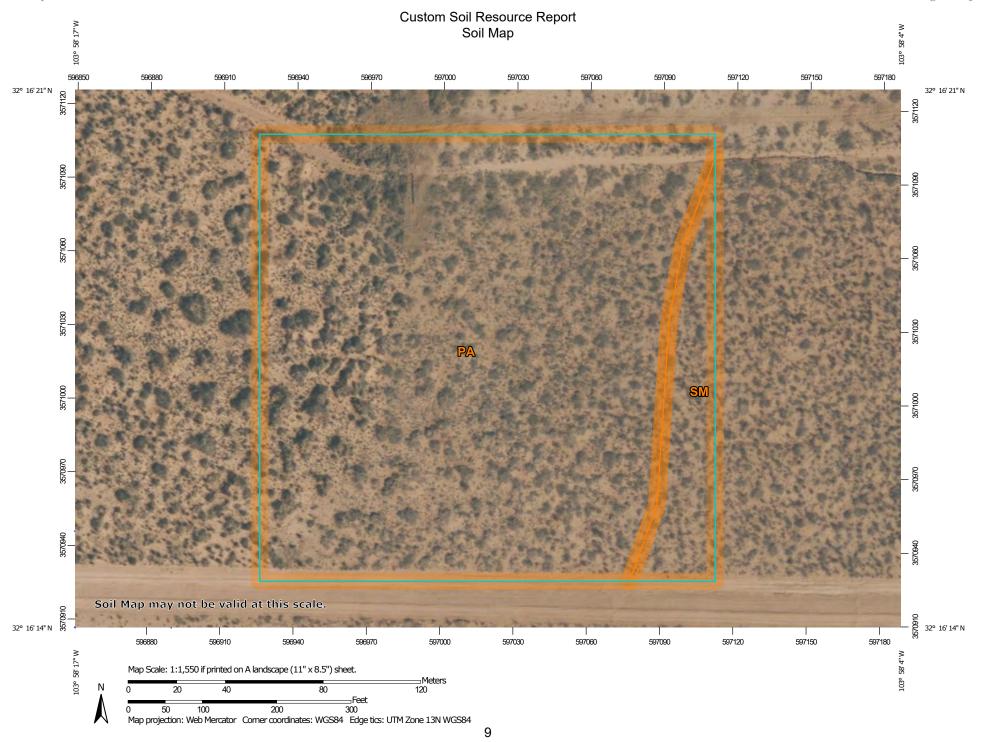
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

Custom Soil Resource Report

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

Soil Map

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



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

ဖ

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit Gravelly Spot

Landfill

Lava Flow Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

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Stony Spot

Very Stony Spot

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Wet Spot Other

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Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes Major Roads

00

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 17, Sep 12, 2021

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12. 2020

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
PA	Pajarito loamy fine sand, 0 to 3 percent slopes, eroded	7.6	90.4%
SM	Simona-Bippus complex, 0 to 5 percent slopes	0.8	9.6%
Totals for Area of Interest		8.4	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.

Eddy Area, New Mexico

PA—Pajarito loamy fine sand, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w54 Elevation: 2,700 to 5,500 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 250 days

Farmland classification: Not prime farmland

Map Unit Composition

Pajarito and similar soils: 98 percent Minor components: 2 percent

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

Description of Pajarito

Setting

Landform: Plains, interdunes, dunes

Landform position (three-dimensional): Side slope

Down-slope shape: Convex, linear Across-slope shape: Linear, convex

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 13 inches: loamy fine sand H2 - 13 to 36 inches: fine sandy loam H3 - 36 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

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 content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 7.9 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Wink

Percent of map unit: 1 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Berino

Percent of map unit: 1 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

SM—Simona-Bippus complex, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 1w5x Elevation: 1,800 to 5,000 feet

Mean annual precipitation: 8 to 24 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 55 percent Bippus and similar soils: 30 percent Minor components: 15 percent

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

Description of Simona

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 19 inches: gravelly fine sandy loam

H2 - 19 to 23 inches: indurated

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained Runoff class: Very high

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 content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: R042XC002NM - Shallow Sandy

Hydric soil rating: No

Description of Bippus

Setting

Landform: Flood plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Mixed alluvium

Typical profile

H1 - 0 to 37 inches: silty clay loam H2 - 37 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very 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: OccasionalNone

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: R042XC017NM - Bottomland

Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 8 percent

Ecological site: R042XC002NM - Shallow Sandy

Hydric soil rating: No

Bippus

Percent of map unit: 7 percent

Ecological site: R042XC017NM - Bottomland

Hydric soil rating: No

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Ecological site R042XC003NM Loamy Sand

Accessed: 05/03/2022

General information



Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Associated sites

R042XC004NM	Sandy Sandy
R042XC005NM	Deep Sand Deep Sand

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site is on uplands, plains, dunes, fan piedmonts and in inter dunal areas. The parent material consists of mixed alluvium and or eolian sands derived from sedimentary rock. Slope range on this site range from 0 to 9 percent with the average of 5 percent.

Low stabilized dunes may occur occasionally on this site. Elevations range from 2,800 to 5,000 feet.

Table 2. Representative physiographic features

Landforms	(1) Fan piedmont(2) Alluvial fan(3) Dune
Elevation	2,800–5,000 ft
Slope	0–9%
Aspect	Aspect is not a significant factor

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity-short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost being late March or early April and the first killing frost being in later October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest from January through June, which accelerates soil drying during a critical period for cool season plant growth.

Climate data was obtained from http://www.wrcc.sage.dri.edu/summary/climsmnm.html web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

Frost-free period (average)	221 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced from water from wetlands or streams.

Soil features

Soils are moderately deep or very deep. Surface textures are loamy fine sand, fine sandy loam, loamy very fine sand or gravelly sandy loam.

Subsurface is a loamy fine sand, coarse sandy loam, fine sandy loam or loam that averages less than 18 percent clay and less than 15 percent carbonates.

Substratum is a fine sandy loam or gravelly fine sandy loam with less than 15 percent gravel and with less than 40 percent calcium carbonate. Some layers high in lime or with caliche fragments may occur at depths of 20 to 30 inches.

These soils, if unprotected by plant cover and organic residue, become wind blown and low hummocks are formed.

Minimum and maximum values listed below represent the characteristic soils for this site.

Characteristic soils are:

Maljamar

Berino

Parjarito Palomas Wink

Pyote

Table 4. Representative soil features

Surface texture	(1) Fine sand (2) Fine sandy loam (3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to moderately rapid
Soil depth	40–72 in
Surface fragment cover <=3"	0–10%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–7 in
Calcium carbonate equivalent (0-40in)	3–40%
Electrical conductivity (0-40in)	2–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	4–12%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

Overview

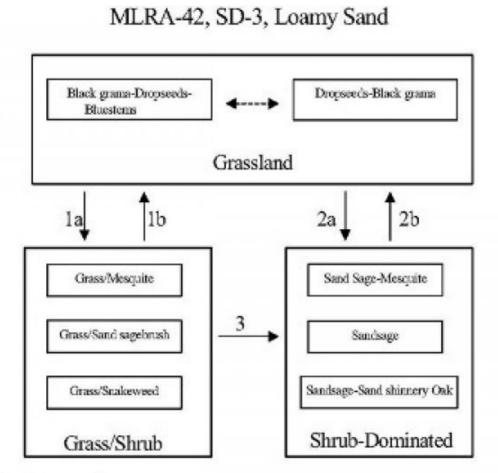
The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured (sandy loam and fine sandy loam) surfaces. Although Loamy Sand and Deep Sand sites have similar surface textures, the depth to a textural change is different—Loamy Sand sub-surface textures typically increase in clay at approximately 20 to 30 inches, and Deep Sand sites not until around 40 inches.

The historic plant community of Loamy Sand sites is dominated by black grama (*Bouteloua eriopoda*), dropseeds (*Sporobolus flexuosus*, *S. contractus*, *S. cryptandrus*), and bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), with scattered shinnery oak (*Quercus havardii*) and sand sage (*Artemisia filifolia*). Perennial and annual forb abundance and distribution are dependent on precipitation. Litter and to a lesser extent, bare ground, are a significant proportion of ground cover while grasses compose the remainder. Decreases in black grama indicate a transition to either a grass/shrub or shrub-dominated state. The grass/shrub state is composed of grasses/honey mesquite (*Prosopis glandulosa*), grasses/broom snakeweed (*Gutierrezia sarothrae*), or grasses/sand sage. The shrub-dominated state occurs after a severe loss of grass cover and a prevalence of sand sage with secondary shinnery oak and mesquite. Heavy grazing intensity and/or drought are influential drivers in decreasing black grama and bluestems and subsequently increasing shrub cover, erosion, and bare patches. Historical fire suppression also encourages shrub pervasiveness and a competitive advantage over grass species (McPherson 1995). Brush and grazing management, however, may reverse grass/shrub and shrub-dominated states toward the grassland-

dominated historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram):



- 1a. Drought, over grazing, fire suppression.
- 1b. Brush control, prescribed grazing
- 2.a Severe loss of grass cover, fire suppression, erosion.
- 2b. Brush control, seeding, prescribed grazing.
- 3. Continued loss of grass cover, erosion.

Figure 4.

State 1 Historic Climax Plant Community

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Community 1.1 Historic Climax Plant Community

Grassland: The historic plant community is a uniformly distributed grassland dominated by black grama, dropseeds, and bluestems. Sand sage and shinnery oak are evenly dispersed throughout the grassland due to the coarse soil surface texture. Perennial and annual forbs are common but their abundance and distribution are reflective of precipitation. Bluestems initially, followed by black grama, decrease with drought and heavy grazing intensity. Historical fire frequency is unknown but likely occurred enough to remove small shrubs to the competitive advantage of grass species. Fire suppression, drought conditions, and excessive grazing drive most grass species out of competition with shrub species.

Diagnosis: Grassland dominated by black grama, dropseeds, and bluestems. Shrubs, such as sand sage, shinnery oak, and mesquite are dispersed throughout the grassland. Forbs are present and populations fluctuate with precipitation variability.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	
Grass/Grasslike	442	833	1224
Forb	110	208	306
Shrub/Vine	98	184	270
Total	650	1225	1800

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	28%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	50%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	22%

Figure 6. Plant community growth curve (percent production by month). NM2803, R042XC003NM-Loamy Sand-HCPC. SD-3 Loamy Sand - Warm season plant community .

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

State 2
Grass/Shrub

Community 2.1 Grass/Shrub





*Black grams/Mesquite community, with some dropseds, threeway, and scattered sand shimory oak *Oracs cover low to moderate

Grass/Shrub State: The grass/shrub state is dominated by communities of grasses/mesquite, grasses/snakeweed, or grasses/sand sage. Decreases in black grama and bluestem species lead to an increase in bare patches and mesquite which further competes with grass species. An increase of dropseeds and threeawns occurs. Grass distribution becomes more patchy with an absence or severe decrease in black grama and bluestems. Mesquite provides nitrogen and soil organic matter to co-dominant grasses (Ansley and Jacoby 1998, Ansley et al. 1998). Mesquite mortality when exposed to fire is low due to aggressive resprouting abilities. Herbicide application combined with subsequent prescribed fire may be more effective in mesquite reduction (Britton and Wright 1971).

Diagnosis: This state is dominated by an increased abundance of communities including grass/mesquite, grass/snakeweed, or grass/sand sage. Dropseeds and threeawns have a patchy distribution.

Transition to Grass/Shrub State (1a): The historic plant community begins to shift toward the grass/shrub state as drivers such as drought, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by a decrease in black grama with a subsequent increase of dropseeds, threeawns, mesquite, and snakeweed. Snakeweed has been documented to outcompete black grama especially under conditions of fire suppression and drought (McDaniel et al. 1984).

Loss of black grama cover

Key indicators of approach to transition:

- Surface soil erosion
- Bare patch expansion
- Increased dropseed/threeawn and mesquite, snakeweed, or sand sage abundances

Transition to Historic Plant Community (1b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community.

State 3 Shrub Dominated

Community 3.1 Shrub Dominated

Shrub-Dominated State: The shrub-dominated state results from a severe loss of grass cover. This state's primary species is sand sage. Shinnery oak and mesquite also occur; however, grass cover is limited to intershrub distribution. Sand sage stabilizes light sandy soils from wind erosion, which enhances protected grass/forb cover (Davis and Bonham 1979). However, shinnery oak also responds to the sandy soils with dense stands due to an aggressive rhizome system. Shinnery oak's extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986).

Transition to Shrub-Dominated (2a): Severe loss of grass species with increased erosion and fire suppression will result in a transition to a shrub-dominated state with sand sage, Shin oak, and honey mesquite directly from the grassland-dominated state.

Key indicators of approach to transition:

- · Severe loss of grass species cover
- Surface soil erosion
- Bare patch expansion
- Increased sand sage, shinnery oak, and mesquite abundance

Transition to Historic Plant Community (2b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community. In addition, seeding with native grass species will augment the transition to a grassland-dominated state.

Transition to Shrub-Dominated (3): If the grass/shrub site continues to lose grass cover with soil erosion, the site will transition to a shrub-dominated state with sand sage, shinnery oak, and honey mesquite.

Key indicators of approach to transition:

- · Continual loss of dropseeds/threeawns cover
- Surface soil erosion
- Bare patch expansion
- Increased sand sage, shinnery oak, and mesquite/dropseed/threeawn and mesquite/snakeweed abundance

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass	/Grasslike	•	•	•	
1	Warm Season			61–123	
	little bluestem	SCSC	Schizachyrium scoparium	61–123	_
2	Warm Season	•		37–61	
	sand bluestem	ANHA	Andropogon hallii	37–61	_
3	Warm Season	•		37–61	
	cane bluestem	BOBA3	Bothriochloa barbinodis	37–61	_
	silver bluestem	BOSA	Bothriochloa saccharoides	37–61	_
4	Warm Season	•		123–184	
	black grama	BOER4	Bouteloua eriopoda	123–184	_
	bush muhly	MUPO2	Muhlenbergia porteri	123–184	_
5	Warm Season	<u>.</u>	•	123–184	
	thin paspalum	PASE5	Paspalum setaceum	123–184	_
	l! b_!_#	05//10	Catanialaiaata	400 404	

	piains pristiegrass	SEVUZ	Setaria vuipiseta	123-184	_
	fringed signalgrass	URCI	Urochloa ciliatissima	123–184	_
6	Warm Season	-		123–184	
	spike dropseed	SPCO4	Sporobolus contractus	123–184	_
	sand dropseed	SPCR	Sporobolus cryptandrus	123–184	_
	mesa dropseed	SPFL2	Sporobolus flexuosus	123–184	_
7	Warm Season	•		61–123	
	hooded windmill grass	CHCU2	Chloris cucullata	61–123	_
	Arizona cottontop	DICA8	Digitaria californica	61–123	_
9	Other Perennial Grasses	•		37–61	
	Grass, perennial	2GP	Grass, perennial	37–61	_
Shru	ıb/Vine	•			
8	Warm Season			37–61	
	New Mexico feathergrass	HENE5	Hesperostipa neomexicana	37–61	
	giant dropseed	SPGI	Sporobolus giganteus	37–61	_
10	Shrub			61–123	
	sand sagebrush	ARFI2	Artemisia filifolia	61–123	
	Havard oak	QUHA3	Quercus havardii	61–123	_
11	Shrub	- 1		34–61	
	fourwing saltbush	ATCA2	Atriplex canescens	37–61	
	featherplume	DAFO	Dalea formosa	37–61	_
12	Shrub			37–61	,
	jointfir	EPHED	Ephedra	37–61	_
	littleleaf ratany	KRER	Krameria erecta	37–61	
13	Other Shrubs	-1	<u> </u>	37–61	
	Shrub (>.5m)	2SHRUB	Shrub (>.5m)	37–61	
Forb					,
14	Forb			61–123	
	leatherweed	CRPOP	Croton pottsii var. pottsii	61–123	
	Indian blanket	GAPU	Gaillardia pulchella	61–123	
	globemallow	SPHAE	Sphaeralcea	61–123	
15	Forb			12–37	
	woolly groundsel	PACA15	Packera cana	12–37	
16	Forb			61–123	,
	touristplant	DIWI2	Dimorphocarpa wislizeni	61–123	_
	woolly plantain	PLPA2	Plantago patagonica	61–123	
17	Other Forbs		1	37–61	
	Forb (herbaceous, not grass nor grass-like)	2FORB	Forb (herbaceous, not grass nor grass-like)	37–61	
	•	•	•		

Animal community

This Ecological Site provides habitat which supports a resident animal community that is characterized by pronghorn antelope, desert cottontail, spotted ground squirrel, black-tailed prairie dog, yellow faced pocket gopher, Ord's kangaroo rat, northern grasshopper mouse, southern plains woodrat, badger, roadrunner, meadowlark, burrowing owl, white necked raven, lesser prairie chicken, morning dove, scaled quail, Harris hawk, side blotched

lizard, marbled whiptail, Texas horned lizard, western diamondback rattlesnake, dusty hognose snake and ornate box turtle.

Where mesquite has invaded, most resident birds and scissor-tailed flycatcher, morning dove and Swainson's hawk, nest. Vesper and grasshopper sparrows utilize the site during migration.

Hydrological functions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

Hydrologic Interpretations

Soil Series Hydrologic Group

Berino B

Kinco A

Maljamar B

Pajarito B

Palomas B

Wink B

Pyote A

Recreational uses

This site offers recreation potential for hiking, borseback riding, nature observation, photography and hunting. During years of abundant spring moisture, this site displays a colorful array of wildflowers during May and June.

Wood products

This site has no potential for wood products.

Other products

This site is suitable for grazing by all kinds and classes of livestock at any time of year. In cases where this site has been invaded by brush species it is especially suited for goats. Mismanagement of this site will cause a decrease in species such as the bluestems, blsck grama, bush muhly, plains bristlegrass, New Mexico feathergrass, Arizona cottontop and fourwing saltbush. A corresponding increase in the dropseeds, windmill grass, fall witchgrass, silver bluestem, sand sagebrush, shinery oak and ephedra will occur. This will also cause an increase in bare ground which will increase soil erodibility. This site will respond well to a system of management that rotates the season of use.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month Similarity Index Ac/AUM

100 - 762.3 - 3.5

75 - 513.0 - 4.5

50 - 264.6 - 9.0

25 - 0.9.1 +

Inventory data references

Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains, Major Land Resource Areas of New Mexico. This site has been mapped and correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

Other references

Literature Cited:

Ansley, R. J.; Jacoby, P. W. 1998. Manipulation of fire intensity to achieve mesquite management goals in north Texas. In: Pruden, Teresa L.; Brennan, Leonard A., eds. Fire in ecosystem management: shifting the paradigm from suppression to prescription: Proceedings, Tall Timbers fire ecology conference; 1996 May 7-10; Boise, ID. No. 20. Tallahassee, FL: Tall Timbers Research Station: 195-204.

Ansley, R. J.; Jones, D. L.; Tunnell, T. R.; [and others]. 1998. Honey mesquite canopy responses to single winter fires: relation to herbaceous fuel, weather and fire temperature. International Journal of Wildland Fire 8(4):241-252.

Britton, Carlton M.; Wright, Henry A. 1971. Correlation of weather and fuel variables to mesquite damage by fire. Journal of Range Management 24:136-141.

Davis, Joseph H., III and Bonham, Charles D. 1979. Interference of sand sagebrush canopy with needleandthread. Journal of Range Management 32(5):384-386.

Herbel, C. H, Steger, R, Gould, W. L. 1974. Managing semidesert ranges of the Southwest Circular 456. Las Cruces, NM: New Mexico State University, Cooperative Extension Service. 48 p.

McDaniel, Kirk C.; Pieper, Rex D.; Loomis, Lyn E.; Osman, Abdelgader A. 1984. Taxonomy and ecology of perennial snakeweeds in New Mexico. Bulletin 711. Las Cruces, NM: New Mexico State University, Agricultural Experiment Station. 34 p.

McPherson, Guy R. 1995. The role of fire in the desert grasslands. In: McClaran, Mitchel P.; Van Devender, Thomas R., eds. The desert grassland. Tucson, AZ: The University of Arizona Press: 130-151.

Pettit, Russell D. 1986. Sand shinnery oak: control and management. Management Note 8. Lubbock, TX: Texas Tech University, College of Agricultural Sciences, Department of Range and Wildlife Management. 5 p.

Contributors

Don Sylvester Quinn Hodgson

Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

Author(s)/participant(s)	
Contact for lead author	
Date	
Approved by	
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

Indicators

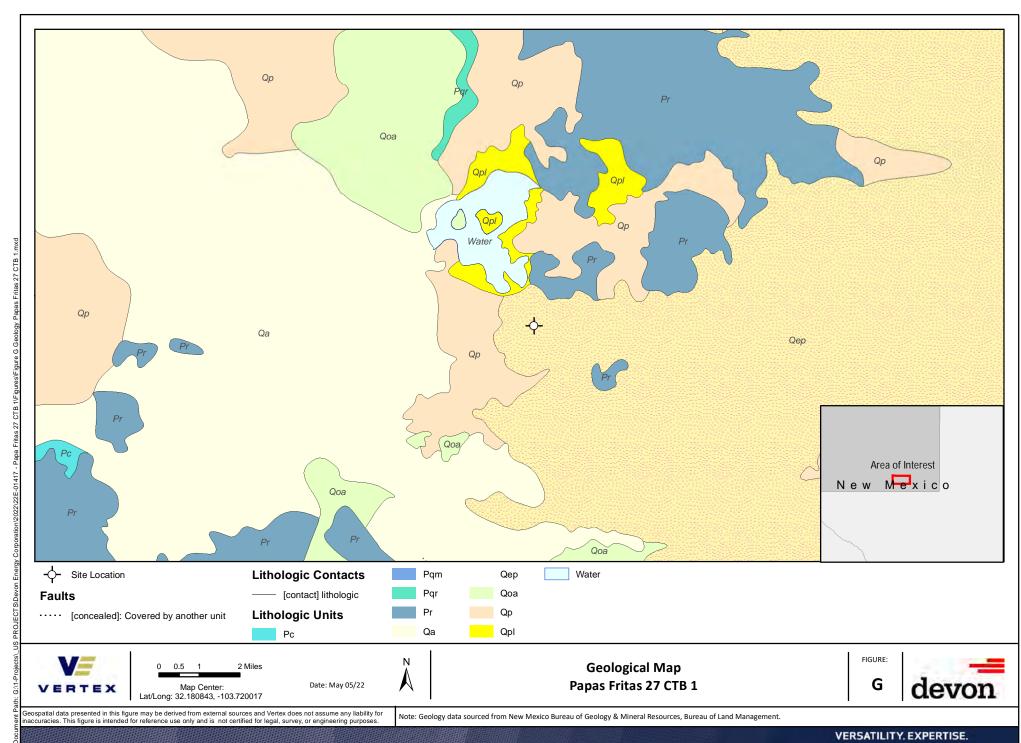
1. Number and extent of rills:

2.	Presence of water flow patterns:
3.	Number and height of erosional pedestals or terracettes:
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):
5.	Number of gullies and erosion associated with gullies:
6.	Extent of wind scoured, blowouts and/or depositional areas:
7.	Amount of litter movement (describe size and distance expected to travel):
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):
12.	Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):
	Dominant:
	Sub-dominant:
	Other:
	Additional:
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):

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14.	Average percent litter cover (%) and depth (in):
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):
16.	Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:
17.	Perennial plant reproductive capability:



Closure C	riteria Worksheet		
	e: Papas Fritas 27 CTB 1	T	
Spill Coor		X: 32.271641	Y: -103.969901
Site Speci	fic Conditions	Value	Unit
1	Depth to Groundwater	18	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	3,555	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	2,002	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	18,480	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	5,318	feet
	ii) Within 1000 feet of any fresh water well or spring	5,318	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	4,486	feet
8	Within the area overlying a subsurface mine	,	(Y/N)
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low
10	Within a 100-year Floodplain	500	year
11	Soil Type	loamy fine sand, gravelly fine sandy loam, silty clay loam	
12	Ecological Classification	loamy sand	
13	Geology	R042XC003NM Loamy sand	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'

ATTACHMENT 5

Papas Fritas 27 CTB 1 48 HR Notification Liner Inspection nAPP2210924425



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

to OCD,, BLM_NM

AII,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled a liner inspection to be conducted for the following release:

nAPP2210924425 DOR: 4/18/2022 Site Name: Papas Fritas 27 CTB 1

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

On Saturday, May 14, 2022 at approximately 12:00 p.m., Lakin Pullman will be on site to conduct a liner inspection. He can be reached at 701-495-1722. If you need directions to the please give me a call at 575-361-9880.

Thank you,

Monica Peppin

Project Manager

Vertex Resource Services Inc. 3101 Boyd Drive, Carlsbad, NM 88220

P 575.725.5001 Ext. 711 C 575.361.9880

www.vertex.ca

Confidentiality Notice: This message and any attachments are solely for the intended recipient and may contain confidential or privileged information. If you are not the intended recipient, any discloss received this communication in error, please notify us by reply email and immediately and permanently delete this message and any attachments. Thank you.



Dhuqal Hanton <vertexresourcegroupusa@gmail.com>

48 hour confirmation sampling notice Papa Fritas 27 CTB 1

3 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Mon, Sep 26, 2022 at 12:16 PM

To: "Enviro, OCD, EMNRD" <OCD.Enviro@state.nm.us>, spills@slo.state.nm.us

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at Papa Fritas 27 CTB 1,

Lea County

NAPP2113158013 & NAPP2127146416.

On Thursday, September 29, 2022, at approximately 8:00 a.m through Friday September 30, Fernando Rodriguez of Vertex will be onsite to conduct confirmation sampling for the above release.

He can be reached at 575-361-4509. If you need directions to the site, please do not hesitate to contact me. If you have any questions or concerns regarding this notification, please give me a call at 346-814-1413.

Thank you,

Kent Stallings P.G.

Project Manager

Vertex Resource Services Inc. 3101 Boyd Drive, Carlsbad, NM 88220

P 575,725,5001 C 346.814.1413

Nobui, Jennifer, EMNRD < Jennifer. Nobui@emnrd.nm.gov>

Mon, Sep 26, 2022 at 1:40 PM

To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet, Robert, EMNRD"

<Robert.Hamlet@emnrd.nm.gov>, "Harimon, Jocelyn, EMNRD" <Jocelyn.Harimon@emnrd.nm.gov>

Kent

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

Thanks,

Jennifer Nobui

From: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Sent: Monday, September 26, 2022 1:37 PM

To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD

<Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert,

EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Subject: Fw: [EXTERNAL] 48 hour confirmation sampling notice Papa Fritas 27 CTB 1

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Monday, September 26, 2022 12:16 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; spills@slo.state.nm.us <spills@slo.state.nm.us <

Subject: [EXTERNAL] 48 hour confirmation sampling notice Papa Fritas 27 CTB 1

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

[Quoted text hidden]

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Fri, Sep 30, 2022 at 11:49 AM

To: "Nobui, Jennifer, EMNRD" < Jennifer.Nobui@emnrd.nm.gov>

Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet, Robert, EMNRD"

<Robert.Hamlet@emnrd.nm.gov>, "Harimon, Jocelyn, EMNRD" <Jocelyn.Harimon@emnrd.nm.gov>

Jennifer,

Thank you. I would like to extend the notification to include next week. On Monday, October 3, 2022, at approximately 8:00 a.m through Friday October 7. Fernando Rodriguez of Vertex will be onsite to conduct confirmation sampling at Papa Fritas 27 CTB 1,

Lea County, NAPP2113158013 & NAPP2127146416.

Thanks,

Kent

[Quoted text hidden]



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Confirmation sampling 48 hour notice

4 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Tue, Oct 25, 2022 at 8:33 AM

To: "Nobui, Jennifer, EMNRD" < Jennifer. Nobui@state.nm.us>, "Enviro, OCD, EMNRD" < OCD. Enviro@state.nm.us>

Jennifer,

I would like to provide notification to include On Thursday, October 27, 2022, at approximately 8:00 a.m through Friday October 8, Chance Dixon of Vertex will be onsite to conduct confirmation sampling at Papa Fritas 27 CTB 1, Lea County, NAPP2113158013 & NAPP2127146416.

Thank you,

Kent

Tue, Oct 25, 2022 at 9:57 AM

Hi Kent

Your dates below are off, did you mean through Friday November 4? Also, please note that the responsible party must provide at least two business days' notice to the OCD as opposed to 48-hour notification.

Thanks,

Jennifer Nobui

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Tuesday, October 25, 2022 8:33 AM

To: Nobui, Jennifer, EMNRD < Jennifer. Nobui@emnrd.nm.gov>; Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Subject: [EXTERNAL] Confirmation sampling 48 hour notice

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

[Quoted text hidden]

Dhugal Hanton <vertexresourcegroupusa@gmail.com>
To: "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@emnrd.nm.gov>

Tue, Oct 25, 2022 at 1:33 PM

io. Nobal, Jeriiller, Elvinob Seriiller.Nobal@eri

Jennifer,

I apologise. I intended to extend the sampling from Wednesday10/26/2022, into Thursday 10/27/2022 and Friday10/28/2022.

Thank you,

Kent

[Quoted text hidden]

Nobui, Jennifer, EMNRD Jennifer.Nobui@emnrd.nm.gov> To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Tue, Oct 25, 2022 at 1:37 PM

Kent,

No worries. Dates have been noted. Going forward, please keep in mind that notification is not 48 hours but 2 business days. Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

[Quoted text hidden]

ATTACHMENT 6



Client:	Devon Energy Corporation	Inspection Date:	5/14/2022			
Site Location Name:	Papa Fritas 27 CTB 1	Report Run Date:	5/14/2022 10:56 PM			
Client Contact Name:	Wes Matthews	 API #:				
Client Contact Phone #:	(575) 748-0176	_				
Unique Project ID		Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						
Arrived at Site	5/14/2022 9:08 AM					
Departed Site	5/14/2022 10:15 AM					

Field Notes

- **9:11** Completed safety paperwork at office. On site to perform Liner Inspection.
- 10:03 Inspected outside and inside walls of containment and found no damage or breaches.
- 10:05 Inspected areas around outside containment and found no unexpected staining.
- 10:06 Inspected liner inside containment around and between tanks and equipment. Did not find damage to liner or any areas of concern.

Next Steps & Recommendations

1 Submit report to client.



Site Photos





Southwest corner outside containment facing east. South end of containment, outside.

Viewing Direction: East



Southwest corner inside containment facing east. South end of containment, inside.

Viewing Direction: South



Northwest corner inside containment facing south. West side of containment, inside.

Viewing Direction: North



Southeast corner inside containment facing north. East side of containment, inside.





Northeast corner inside containment facing west. North end of containment, inside.



North end of tanks facing south.



South end of tanks facing north.



West of tanks facing east. Between tanks, south.







East of tanks facing west. Between tanks, middle.



East of tanks facing west. Between tanks, north.





Northeast corner inside containment facing south. East side of containment, inside.

Viewing Direction: North



Southwest corner outside containment facing north. West side of containment, outside.





Southeast corner inside containment facing east. South end of containment, inside.



Northwest corner outside containment facing south. West side of containment, outside.



Northwest corner outside containment facing east. North end of containment, outside.



Northeast corner outside containment facing west. North end of containment, outside.







Northeast corner outside containment facing south. East side of containment, outside.

Viewing Direction: North

Southeast corner outside containment facing north. East side of containment, outside.

Viewing Direction: West



Southeast corner outside containment facing west. South side of containment, outside.

Viewing Direction: East



Northwest corner inside containment facing east. North end of containment, inside.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Client:	Devon Energy Corporation	Inspection Date:	5/14/2022			
Site Location Name:	Papa Fritas 27 CTB 1 Wes Matthews	Report Run Date: API #:	5/14/2022 10:55 PM			
Client Contact Name:						
Client Contact Phone #:	(575) 748-0176					
Unique Project ID		– Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						
Arrived at Site	5/14/2022 6:49 AM					
Departed Site	5/14/2022 9:08 AM					
Field Notes						

Field Notes

- 9:09 Completed safety paperwork at office. Investigated partial work done on historic spill by competitor. Phase 2 of project.
- **8:15** Staining no longer visible in most places to identify release area. Previous consultant white-flagged edges of release. Used visible staining and white flags to map approximate release area in Arc Collector.
- 9:03 Added white flags to edges of release area off pad. Painted and added additional white flags to edges of release area on pad.
- **8:20** North edge of release is bounded by berm covering water line.

Next Steps & Recommendations

1 Place one calls and arrange excavation.



Site Photos





North edge of pad facing northwest. Added flags to edges of release area off-pad.

Viewing Direction: East



West end of release area facing east. Outlined approximate release area on pad with additional white flags and paint.







South end of release area facing northwest.
Outlined approximate release area on pad with additional white flags and paint.



South end of release area facing north.
Outlined approximate release area on pad with additional white flags and paint.

Viewing Direction: South



Northeast corner of release facing south.

Added flags to edges of release area off-pad.

Viewing Direction: West



Northeast corner of release facing west. Added flags to edges of release area off-pad.

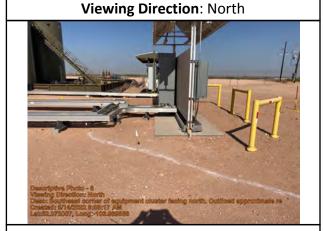




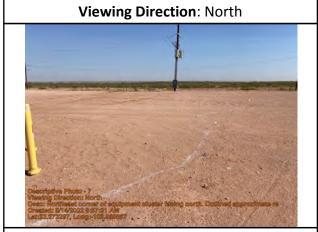
Northwest corner of release facing east. Added flags to edges of release area off-pad.



North of pad facing east. Added flags to edges of release area off-pad.



Northeast corner of equipment cluster facing east. Outlined approximate release area on pad with additional white flags and paint.



Northeast corner of equipment cluster facing north. Outlined approximate release area on pad with additional white flags and paint.





North edge of pad facing west. Outlined approximate release area on pad with additional white flags and paint.



North edge of pad facing southwest. Outlined approximate release area on pad with additional white flags and paint.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Client:	Devon Energy Corporation	Inspection Date:	10/27/2022
Site Location Name:	Papa Fritas 27 CTB 1	Report Run Date:	10/27/2022 7:52 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176	-	
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of [*]	Times
Arrived at Site	10/27/2022 8:45 AM		
Departed Site	10/27/2022 12:00 PM		

Field Notes

- 9:26 Arrived on site to excavate and collect samples that were above criteria on chlorides from lab
- 10:39 Samples WES22-10, BES22-27, and BES22-30 through BES22-31 are clean on field screening and will be sent to lab for analysis.
- **10:40** BES22-07 and BES22-11 were collected at 2.5' in the pasture as they were not collected last week. Scanned all data and made sure that we have data under criteria for each sample point.

Next Steps & Recommendations

1 Send final samples to lab for analysis to complete forrimation



Site Photos



Sample area for WES22-10



Province Control of the Control of t

Viewing Direction: Southwest

Final excavation pad



Final excavation pad





Final excavation pad



Final excavation pad



Sample area for BES22-27 and BES22-30 through BES22-31



Sample area for BES22-11





Sample area for BES22-07



Final excavation pasture



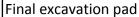
Final excavation pasture



Final excavation pasture









Final excavation pad



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

Run on 10/27/2022 7:52 PM UTC

ATTACHMENT 7



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

October 19, 2022

FAX

Kent Stallings Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

RE: Papas Fritas 27 CTB1 OrderNo.: 2210378

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 18 sample(s) on 10/7/2022 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 Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-01 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 9:45:00 AM

 Lab ID:
 2210378-001
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/12/2022 10:29:08 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/12/2022 10:29:08 AM
Surr: DNOP	57.6	21-129	%Rec	1	10/12/2022 10:29:08 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/11/2022 9:58:00 PM
Surr: BFB	93.2	37.7-212	%Rec	1	10/11/2022 9:58:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/11/2022 9:58:00 PM
Toluene	ND	0.046	mg/Kg	1	10/11/2022 9:58:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/11/2022 9:58:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	10/11/2022 9:58:00 PM
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	1	10/11/2022 9:58:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/12/2022 4:31:27 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 25

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-03 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 10:00:00 AM

 Lab ID:
 2210378-002
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/12/2022 8:34:42 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/12/2022 8:34:42 PM
Surr: DNOP	97.5	21-129	%Rec	1	10/12/2022 8:34:42 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/11/2022 10:18:00 PM
Surr: BFB	95.2	37.7-212	%Rec	1	10/11/2022 10:18:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/11/2022 10:18:00 PM
Toluene	ND	0.047	mg/Kg	1	10/11/2022 10:18:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/11/2022 10:18:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/11/2022 10:18:00 PM
Surr: 4-Bromofluorobenzene	96.9	70-130	%Rec	1	10/11/2022 10:18:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/12/2022 5:08:29 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 25

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-16 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 10:35:00 AM

 Lab ID:
 2210378-003
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 8:55:52 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/12/2022 8:55:52 PM
Surr: DNOP	99.2	21-129	%Rec	1	10/12/2022 8:55:52 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/11/2022 10:37:00 PM
Surr: BFB	97.2	37.7-212	%Rec	1	10/11/2022 10:37:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/11/2022 10:37:00 PM
Toluene	ND	0.047	mg/Kg	1	10/11/2022 10:37:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/11/2022 10:37:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/11/2022 10:37:00 PM
Surr: 4-Bromofluorobenzene	97.1	70-130	%Rec	1	10/11/2022 10:37:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	170	60	mg/Kg	20	10/12/2022 5:45:31 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 25

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-18 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 11:30:00 AM

 Lab ID:
 2210378-004
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR				Analyst: DGH	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 9:06:33 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/12/2022 9:06:33 PM
Surr: DNOP	109	21-129	%Rec	1	10/12/2022 9:06:33 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/11/2022 10:57:00 PM
Surr: BFB	97.4	37.7-212	%Rec	1	10/11/2022 10:57:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	10/11/2022 10:57:00 PM
Toluene	ND	0.049	mg/Kg	1	10/11/2022 10:57:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/11/2022 10:57:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/11/2022 10:57:00 PM
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	10/11/2022 10:57:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/12/2022 5:57:51 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 25

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-20 2'

Project: Papas Fritas 27 CTB1 Collection Date: 10/5/2022 11:45:00 AM 2210378-005 Lab ID: Matrix: SOIL Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 9:17:09 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/12/2022 9:17:09 PM
Surr: DNOP	80.9	21-129	%Rec	1	10/12/2022 9:17:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/11/2022 11:17:00 PM
Surr: BFB	90.9	37.7-212	%Rec	1	10/11/2022 11:17:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/11/2022 11:17:00 PM
Toluene	ND	0.047	mg/Kg	1	10/11/2022 11:17:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/11/2022 11:17:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/11/2022 11:17:00 PM
Surr: 4-Bromofluorobenzene	94.0	70-130	%Rec	1	10/11/2022 11:17:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/12/2022 6:34:53 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

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 5 of 25 RL Reporting Limit

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-21 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 12:00:00 PM

 Lab ID:
 2210378-006
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR		Analyst: DGH			
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 9:27:43 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/12/2022 9:27:43 PM
Surr: DNOP	85.3	21-129	%Rec	1	10/12/2022 9:27:43 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/11/2022 11:36:00 PM
Surr: BFB	94.6	37.7-212	%Rec	1	10/11/2022 11:36:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/11/2022 11:36:00 PM
Toluene	ND	0.046	mg/Kg	1	10/11/2022 11:36:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/11/2022 11:36:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/11/2022 11:36:00 PM
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	10/11/2022 11:36:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	160	60	mg/Kg	20	10/12/2022 6:47:14 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 25

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-22 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 12:10:00 PM

 Lab ID:
 2210378-007
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 9:38:17 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/12/2022 9:38:17 PM
Surr: DNOP	65.6	21-129	%Rec	1	10/12/2022 9:38:17 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 12:16:00 AM
Surr: BFB	95.3	37.7-212	%Rec	1	10/12/2022 12:16:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	10/12/2022 12:16:00 AM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 12:16:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 12:16:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/12/2022 12:16:00 AM
Surr: 4-Bromofluorobenzene	94.1	70-130	%Rec	1	10/12/2022 12:16:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	250	60	mg/Kg	20	10/12/2022 6:59:35 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-23 2'

Project: Papas Fritas 27 CTB1 **Collection Date:** 10/5/2022 12:20:00 PM 2210378-008 **Received Date:** 10/7/2022 7:10:00 AM Lab ID: Matrix: SOIL

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR				Analyst: DGH	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/12/2022 9:48:47 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/12/2022 9:48:47 PM
Surr: DNOP	79.1	21-129	%Rec	1	10/12/2022 9:48:47 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 12:35:00 AM
Surr: BFB	94.8	37.7-212	%Rec	1	10/12/2022 12:35:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/12/2022 12:35:00 AM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 12:35:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 12:35:00 AM
Xylenes, Total	ND	0.093	mg/Kg	1	10/12/2022 12:35:00 AM
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	10/12/2022 12:35:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	1400	61	mg/Kg	20	10/12/2022 7:11:56 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 8 of 25 RL Reporting Limit

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-24 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 12:30:00 PM

 Lab ID:
 2210378-009
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/12/2022 9:59:16 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/12/2022 9:59:16 PM
Surr: DNOP	75.6	21-129	%Rec	1	10/12/2022 9:59:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/12/2022 12:55:00 AM
Surr: BFB	95.5	37.7-212	%Rec	1	10/12/2022 12:55:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	10/12/2022 12:55:00 AM
Toluene	ND	0.049	mg/Kg	1	10/12/2022 12:55:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/12/2022 12:55:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	10/12/2022 12:55:00 AM
Surr: 4-Bromofluorobenzene	94.1	70-130	%Rec	1	10/12/2022 12:55:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/12/2022 7:24:17 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-32 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 12:35:00 PM

 Lab ID:
 2210378-010
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/12/2022 10:09:49 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/12/2022 10:09:49 PM
Surr: DNOP	64.9	21-129	%Rec	1	10/12/2022 10:09:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 1:15:00 AM
Surr: BFB	90.6	37.7-212	%Rec	1	10/12/2022 1:15:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	10/12/2022 1:15:00 AM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 1:15:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 1:15:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/12/2022 1:15:00 AM
Surr: 4-Bromofluorobenzene	92.4	70-130	%Rec	1	10/12/2022 1:15:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	210	61	mg/Kg	20	10/12/2022 7:36:37 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-33 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 12:40:00 PM

 Lab ID:
 2210378-011
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 10:20:23 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/12/2022 10:20:23 PM
Surr: DNOP	68.4	21-129	%Rec	1	10/12/2022 10:20:23 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 1:34:00 AM
Surr: BFB	90.9	37.7-212	%Rec	1	10/12/2022 1:34:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	10/12/2022 1:34:00 AM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 1:34:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 1:34:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	10/12/2022 1:34:00 AM
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	10/12/2022 1:34:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	190	60	mg/Kg	20	10/12/2022 7:48:58 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-34 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 12:45:00 PM

 Lab ID:
 2210378-012
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/12/2022 10:30:59 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/12/2022 10:30:59 PM
Surr: DNOP	89.9	21-129	%Rec	1	10/12/2022 10:30:59 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 1:54:00 AM
Surr: BFB	93.4	37.7-212	%Rec	1	10/12/2022 1:54:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/12/2022 1:54:00 AM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 1:54:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 1:54:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	10/12/2022 1:54:00 AM
Surr: 4-Bromofluorobenzene	94.9	70-130	%Rec	1	10/12/2022 1:54:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	420	60	mg/Kg	20	10/12/2022 8:01:19 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-39 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 12:55:00 PM

 Lab ID:
 2210378-013
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/12/2022 10:41:36 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/12/2022 10:41:36 PM
Surr: DNOP	66.2	21-129	%Rec	1	10/12/2022 10:41:36 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 2:14:00 AM
Surr: BFB	91.0	37.7-212	%Rec	1	10/12/2022 2:14:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	10/12/2022 2:14:00 AM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 2:14:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 2:14:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	10/12/2022 2:14:00 AM
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	10/12/2022 2:14:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/12/2022 8:13:40 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Client Sample ID: BES22-40 2'

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1 Collection Date: 10/5/2022 1:00:00 PM

Lab ID: 2210378-014 **Matrix:** SOIL **Received Date:** 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 10:52:14 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/12/2022 10:52:14 PM
Surr: DNOP	86.3	21-129	%Rec	1	10/12/2022 10:52:14 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 2:34:00 AM
Surr: BFB	92.2	37.7-212	%Rec	1	10/12/2022 2:34:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/12/2022 2:34:00 AM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 2:34:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 2:34:00 AM
Xylenes, Total	ND	0.093	mg/Kg	1	10/12/2022 2:34:00 AM
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	10/12/2022 2:34:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/13/2022 12:45:07 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-43 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 1:15:00 PM

 Lab ID:
 2210378-015
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/12/2022 11:02:54 PM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	10/12/2022 11:02:54 PM
Surr: DNOP	76.7	21-129	%Rec	1	10/12/2022 11:02:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/12/2022 2:53:00 AM
Surr: BFB	90.7	37.7-212	%Rec	1	10/12/2022 2:53:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	10/12/2022 2:53:00 AM
Toluene	ND	0.050	mg/Kg	1	10/12/2022 2:53:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	10/12/2022 2:53:00 AM
Xylenes, Total	ND	0.10	mg/Kg	1	10/12/2022 2:53:00 AM
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	10/12/2022 2:53:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	580	60	mg/Kg	20	10/13/2022 1:22:10 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-45 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 1:30:00 PM

 Lab ID:
 2210378-016
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/12/2022 11:13:34 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	10/12/2022 11:13:34 PM
Surr: DNOP	90.5	21-129	%Rec	1	10/12/2022 11:13:34 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/12/2022 3:13:00 AM
Surr: BFB	91.5	37.7-212	%Rec	1	10/12/2022 3:13:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/12/2022 3:13:00 AM
Toluene	ND	0.046	mg/Kg	1	10/12/2022 3:13:00 AM
Ethylbenzene	ND	0.046	mg/Kg	1	10/12/2022 3:13:00 AM
Xylenes, Total	ND	0.092	mg/Kg	1	10/12/2022 3:13:00 AM
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	10/12/2022 3:13:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	250	60	mg/Kg	20	10/13/2022 1:59:12 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Lab ID: 2210378-017

Matrix: SOIL

Collection Date: 10/5/2022 1:35:00 PM Received Date: 10/7/2022 7:10:00 AM

Client Sample ID: BES22-46 2'

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 11:24:16 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/12/2022 11:24:16 PM
Surr: DNOP	83.8	21-129	%Rec	1	10/12/2022 11:24:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/11/2022 1:15:58 PM
Surr: BFB	86.2	37.7-212	%Rec	1	10/11/2022 1:15:58 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/11/2022 1:15:58 PM
Toluene	ND	0.049	mg/Kg	1	10/11/2022 1:15:58 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/11/2022 1:15:58 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/11/2022 1:15:58 PM
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	10/11/2022 1:15:58 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	120	60	mg/Kg	20	10/13/2022 2:11:33 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Lab ID: 2210378-018

Client Sample ID: BES22-47 2'

Collection Date: 10/5/2022 1:40:00 PM

Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/13/2022 12:07:12 AM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	10/13/2022 12:07:12 AM
Surr: DNOP	94.2	21-129	%Rec	1	10/13/2022 12:07:12 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/11/2022 2:26:23 PM
Surr: BFB	87.3	37.7-212	%Rec	1	10/11/2022 2:26:23 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/11/2022 2:26:23 PM
Toluene	ND	0.049	mg/Kg	1	10/11/2022 2:26:23 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/11/2022 2:26:23 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/11/2022 2:26:23 PM
Surr: 4-Bromofluorobenzene	93.3	70-130	%Rec	1	10/11/2022 2:26:23 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	240	60	mg/Kg	20	10/13/2022 2:23:53 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
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210378** *19-Oct-22*

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: MB-70775 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70775 RunNo: 91738

Prep Date: 10/12/2022 Analysis Date: 10/12/2022 SeqNo: 3290313 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-70775 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70775 RunNo: 91738

Prep Date: 10/12/2022 Analysis Date: 10/12/2022 SeqNo: 3290314 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.0 90 110

Sample ID: MB-70774 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70774 RunNo: 91773

Prep Date: 10/12/2022 Analysis Date: 10/13/2022 SeqNo: 3291389 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-70774 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70774 RunNo: 91773

Prep Date: 10/12/2022 Analysis Date: 10/13/2022 SeqNo: 3291390 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.7 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210378**

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: LCS-70721 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 70721 RunNo: 91700

Prep Date: 10/11/2022 Analysis Date: 10/11/2022 SeqNo: 3286198 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 3.3 5.000 66.3 21 129

Sample ID: MB-70721 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 70721 RunNo: 91700

Prep Date: 10/11/2022 Analysis Date: 10/11/2022 SeqNo: 3286199 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 8.3 10.00 82.6 21 129

Sample ID: LCS-70715 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 70715 Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3288663 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Qual

Diesel Range Organics (DRO) 32 15 50.00 0 64.5 64.4 127 Surr: DNOP 3.4 5.000 68.3 21 129

Sample ID: LCS-70717 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 70717 RunNo: 91700

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3288664 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 35 15 50.00 69.6 64.4 127

Surr: DNOP 3.9 5.000 77.8 21 129

Sample ID: MB-70715 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: **70715** RunNo: **91700**

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3288668 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 15

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.1 10.00 90.7 21 129

Sample ID: MB-70717 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS Batch ID: 70717 RunNo: 91700

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3288669

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 15

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 interference
- B Analyte detected in the associated Method Blank

Units: mg/Kg

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210378 19-Oct-22**

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: MB-70717 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 70717 RunNo: 91700

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3288669 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Motor Oil Range Organics (MRO)
 ND
 50

 Surr: DNOP
 9.9
 10.00
 98.8
 21
 129

Sample ID: 2210378-017AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BES22-46 2' Batch ID: 70717 RunNo: 91700

Prep Date: 10/10/2022 Analysis Date: 10/12/2022 SeqNo: 3291181 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 32 13 42.70 O 75.1 36.1 154

Surr: DNOP 3.4 4.270 80.5 21 129

Sample ID: 2210378-017AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BES22-46 2'** Batch ID: **70717** RunNo: **91700**

Prep Date: 10/10/2022 Analysis Date: 10/12/2022 SeqNo: 3291182 Units: mg/Kg

%RPD **RPDLimit** Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Qual Analyte Diesel Range Organics (DRO) 36 14 48.31 0 73.6 36.1 154 10.4 33.9 Surr: DNOP 3.9 4.831 81.3 21 0 0 129

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210378**

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: mb-70714 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70714 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286403 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 860 1000 86.4 37.7 212

Sample ID: Ics-70714 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70714 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286404 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1700 1000 173 37.7 212

Sample ID: mb-70712 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70712 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286419 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 870 1000 87.2 37.7 212

Sample ID: Ics-70712 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70712 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286420 Units: mq/Kq

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) 23 5.0 25.00 92.5 72.3 137

Surr: BFB 1800 1000 178 37.7 212

Sample ID: 2210378-017ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BES22-46 2'** Batch ID: **70712** RunNo: **91687**

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286422 Units: mg/Kg

PQL SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result SPK value LowLimit Qual Gasoline Range Organics (GRO) 4.9 n 97.5 70 24 24.41 130

Surr: BFB 1800 976.6 185 37.7 212

Sample ID: 2210378-017amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BES22-46 2' Batch ID: 70712 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286423 Units: mg/Kg LowLimit Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 20 29 4.9 24.32 0 118 70 130 18.7

Surr: BFB 2100 972.8 212 37.7 212 0 0 0

Qualifiers:

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210378**

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: Ics-70709 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70709 RunNo: 91709

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286520 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 22
 5.0
 25.00
 0
 88.4
 72.3
 137

 Surr: BFB
 1900
 1000
 194
 37.7
 212

Sample ID: mb-70709 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70709 RunNo: 91709

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286521 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 930 1000 92.9 37.7 212

Qualifiers:

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

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210378

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: mb-70714 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 70714 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286448 Units: %Rec

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result %REC LowLimit HighLimit Qual

Surr: 4-Bromofluorobenzene 0.92 1.000 92.1 70 130

Sample ID: LCS-70714 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 70714 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286449 Units: %Rec

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual

Surr: 4-Bromofluorobenzene 0.94 1.000 93.9 130

Sample ID: mb-70712 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 70712 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286464 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual ND 0.025 Benzene ND 0.050 Toluene Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.93 1.000 93.0 70 130

SampType: LCS Client ID: LCSS Batch ID: 70712 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286465 Units: mg/Kg LowLimit Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Benzene 1.0 0.025 1.000 0 104 80 120 0.050 1.000 0 105 80 120 Toluene 1.0 0.050 0 104 80 Ethylbenzene 1.0 1.000 120 Xylenes, Total 0 104 80 3.1 0.10 3.000 120 Surr: 4-Bromofluorobenzene 0.95 1.000 95.1 70 130

TestCode: EPA Method 8021B: Volatiles

Sample ID: 2210378-018ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: **BES22-47 2'** Batch ID: 70712 RunNo: 91687

Prep Date: 10/10/2022	Analysis D	oate: 10	/11/2022	5	SeqNo: 3	286468	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.024	0.9756	0	99.8	68.8	120			
Toluene	0.99	0.049	0.9756	0.01252	99.8	73.6	124			
Ethylbenzene	1.0	0.049	0.9756	0	103	72.7	129			
Xylenes, Total	3.0	0.098	2.927	0.01840	101	75.7	126			

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix

Sample ID: LCS-70712

- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

0.92

WO#: **2210378**

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Surr: 4-Bromofluorobenzene

Sample ID: 2210378-018ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: **BES22-47 2'** Batch ID: **70712** RunNo: **91687**

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SegNo: 3286468 Units: mg/Kg

0.9737

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: 4-Bromofluorobenzene 0.91 0.9756 93.6 70 130

Sample ID: 2210378-018amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: BES22-47 2' Batch ID: 70712 RunNo: 91687 Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286469 Units: mg/Kg **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Benzene 0.94 0.024 0.9737 0 96.4 68.8 120 3.70 20 Toluene 0.95 0.049 0.9737 0.01252 96.0 73.6 124 4.02 20 0.95 0.049 5.33 20 Ethylbenzene 0.9737 0 97.4 72.7 129 Xylenes, Total 2.9 0.097 2.921 0.01840 97.0 75.7 4.20 20 126

70

94 4

130

0

Sample ID: Ics-70709 TestCode: EPA Method 8021B: Volatiles SampType: LCS Client ID: LCSS Batch ID: 70709 RunNo: 91709 Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286568 Units: mg/Kg SPK value SPK Ref Val **RPDLimit** Result PQL %REC LowLimit HighLimit %RPD Qual Analyte 0.025 1.000 0 106 80 120 Renzene 1 1 Toluene 1.1 0.050 1.000 0 105 80 120 0.050 0 105 80 120 Ethylbenzene 1.0 1.000 Xylenes, Total 3.1 0.10 3.000 0 102 80 120 Surr: 4-Bromofluorobenzene 0.93 1.000 93.2 70 130

Sample ID: mb-70709 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: Batch ID: 70709 RunNo: 91709 Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286569 Units: mg/Kg POI SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Benzene ND 0.025 ND Toluene 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.95 1.000 95.2 70 130

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: Vertex Resources Work Order Number: 2210378 RcptNo: 1 Services, Inc. Hansay Received By: Juan Rojas 10/7/2022 7:10:00 AM Completed By: Tracy Casarrubias 10/7/2022 7:50:29 AM 7110/7/2Z Reviewed By: Chain of Custody No 🗌 1. Is Chain of Custody complete? Yes V Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No 🗌 NA 🗌 Yes V No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes V NA 🗌 No 🗌 Sample(s) in proper container(s)? Yes 🗸 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 No 🗌 7. Are samples (except VOA and ONG) properly preserved? ~ No V NA 🗌 8. Was preservative added to bottles? Yes NA V Yes 🗌 No 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No V 10. Were any sample containers received broken? # of preserved bottles checked 11. Does paperwork match bottle labels? Yes V No 🗌 for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes V No 🗌 No 🗌 13. Is it clear what analyses were requested? Yes V Checked by: KPG 10 -7-22 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 1.9 Good Yes

Page 149 of 380 Received by OCD: 12/2/2022 2:04:46 PM **ANALYSIS LABORATORY** HALL ENVIRONMENTAL っぱい If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 Direct bill to Devan, Dale Wardall www.hallenvironmental.com **Analysis Request** Total Coliform (Present/Absent) (AOV-ima2) 07S8 (AOV) 09S8 WO # 20976741 NO2, PO4, SO4 Br, NO3, Tel. 505-345-3975 RCRA 8 Metals PAHs by 8310 or 8270SIMS EDB (Method 504.1) 8081 Pesticides/8082 PCB's Remarks: TPH:8015D(GRO / DRO / MRO) NETEN/ (1208) s'BMT \ 38TM 10000 10 12/22 7 !A (S) 900 Time HEAL No. 2210372 1.9-0=19 27/0/01 Papas Fritas 27 CTB Sampler: Zach Englacit 013 710 Si 010 410 520 Rush A Kent Stallings Preservative Cooler Temp(including CF): 22 E - 01417 3 MAMMAN Type Turn-Around Time: Via: Project Manager: Project Name: Standard Standard # of Coolers: Type and # 1-14r iar Received by: 1- 1 ar Container 1 ar 1-1 ar Project #: Received by: On Ice: ☐ Level 4 (Full Validation) BES22-38392 BES22-8 40 2 Chain-of-Custody Record BES22- 43 BES22- 45 94 1 Sample Name Munn BES22-BES22-Chain-of-Custody □ Az Compliance Jack Eng Relinquished by: Relinquished by: □ Other Matrix 10-5-11:55 |50:1 Swalling Address: 13:00 1830 13:30 13:40 ROS QA/QC Package: 13:35 13:15 ☐ EDD (Type) Time email or Fax#: Accreditation: Time: Standard
 Standard □ NELAC Phone #: Date 10-5



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

October 19, 2022

Kent Stallings Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX

RE: Papas Fritas OrderNo.: 2210428

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 13 sample(s) on 10/8/2022 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 Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-61 2'

Project: Papas Fritas
 Collection Date: 10/6/2022 9:40:00 AM

 Lab ID: 2210428-001
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 4:32:32 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/12/2022 4:32:32 AM
Surr: DNOP	81.9	21-129	%Rec	1	10/12/2022 4:32:32 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/12/2022 4:17:38 PM
Surr: BFB	86.9	37.7-212	%Rec	1	10/12/2022 4:17:38 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 4:17:38 PM
Toluene	ND	0.049	mg/Kg	1	10/12/2022 4:17:38 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/12/2022 4:17:38 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/12/2022 4:17:38 PM
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	10/12/2022 4:17:38 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	670	60	mg/Kg	20	10/14/2022 1:19:01 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-62 2'

Project: Papas Fritas **Collection Date:** 10/6/2022 9:50:00 AM Lab ID: 2210428-002 Matrix: SOIL Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 4:43:04 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/12/2022 4:43:04 AM
Surr: DNOP	87.2	21-129	%Rec	1	10/12/2022 4:43:04 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/12/2022 4:41:01 PM
Surr: BFB	87.4	37.7-212	%Rec	1	10/12/2022 4:41:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 4:41:01 PM
Toluene	ND	0.049	mg/Kg	1	10/12/2022 4:41:01 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/12/2022 4:41:01 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/12/2022 4:41:01 PM
Surr: 4-Bromofluorobenzene	94.8	70-130	%Rec	1	10/12/2022 4:41:01 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	340	60	mg/Kg	20	10/14/2022 1:31:25 AM

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

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 2 of 19 RL Reporting Limit

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-65 2'

Project: Papas Fritas Collection Date: 10/6/2022 10:00:00 AM Lab ID: 2210428-003 Matrix: SOIL Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 4:53:35 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/12/2022 4:53:35 AM
Surr: DNOP	89.5	21-129	%Rec	1	10/12/2022 4:53:35 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/12/2022 5:04:25 PM
Surr: BFB	86.5	37.7-212	%Rec	1	10/12/2022 5:04:25 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 5:04:25 PM
Toluene	ND	0.049	mg/Kg	1	10/12/2022 5:04:25 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/12/2022 5:04:25 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/12/2022 5:04:25 PM
Surr: 4-Bromofluorobenzene	94.9	70-130	%Rec	1	10/12/2022 5:04:25 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	97	60	mg/Kg	20	10/14/2022 1:43:50 AM

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

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 3 of 19 RL Reporting Limit

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-67 2'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 10:05:00 AM

 Lab ID:
 2210428-004
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/12/2022 5:04:06 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/12/2022 5:04:06 AM
Surr: DNOP	89.9	21-129	%Rec	1	10/12/2022 5:04:06 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/12/2022 5:28:01 PM
Surr: BFB	84.7	37.7-212	%Rec	1	10/12/2022 5:28:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/12/2022 5:28:01 PM
Toluene	ND	0.050	mg/Kg	1	10/12/2022 5:28:01 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/12/2022 5:28:01 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/12/2022 5:28:01 PM
Surr: 4-Bromofluorobenzene	90.5	70-130	%Rec	1	10/12/2022 5:28:01 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	450	60	mg/Kg	20	10/14/2022 1:56:15 AM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-68 2'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 10:10:00 AM

 Lab ID:
 2210428-005
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/13/2022 4:20:25 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/13/2022 4:20:25 AM
Surr: DNOP	90.3	21-129	%Rec	1	10/13/2022 4:20:25 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/12/2022 1:57:00 PM
Surr: BFB	88.8	37.7-212	%Rec	1	10/12/2022 1:57:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 1:57:00 PM
Toluene	ND	0.049	mg/Kg	1	10/12/2022 1:57:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/12/2022 1:57:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/12/2022 1:57:00 PM
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	10/12/2022 1:57:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	460	60	mg/Kg	20	10/14/2022 2:08:40 AM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-90 4'

Project: Papas Fritas Collection Date: 10/6/2022 11:45:00 AM Lab ID: 2210428-006 Matrix: SOIL Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/13/2022 4:30:57 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/13/2022 4:30:57 AM
Surr: DNOP	99.0	21-129	%Rec	1	10/13/2022 4:30:57 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 5:51:24 PM
Surr: BFB	86.4	37.7-212	%Rec	1	10/12/2022 5:51:24 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 5:51:24 PM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 5:51:24 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 5:51:24 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/12/2022 5:51:24 PM
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	10/12/2022 5:51:24 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/14/2022 2:21:04 AM

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

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 6 of 19 RL Reporting Limit

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-95 4'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 11:55:00 AM

 Lab ID:
 2210428-007
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/13/2022 4:41:27 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/13/2022 4:41:27 AM
Surr: DNOP	86.6	21-129	%Rec	1	10/13/2022 4:41:27 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/12/2022 6:14:59 PM
Surr: BFB	86.1	37.7-212	%Rec	1	10/12/2022 6:14:59 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/12/2022 6:14:59 PM
Toluene	ND	0.050	mg/Kg	1	10/12/2022 6:14:59 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/12/2022 6:14:59 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/12/2022 6:14:59 PM
Surr: 4-Bromofluorobenzene	93.1	70-130	%Rec	1	10/12/2022 6:14:59 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	90	59	mg/Kg	20	10/14/2022 2:33:29 AM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-96 4'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 12:00:00 PM

 Lab ID:
 2210428-008
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/13/2022 4:51:57 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/13/2022 4:51:57 AM
Surr: DNOP	89.4	21-129	%Rec	1	10/13/2022 4:51:57 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 6:38:40 PM
Surr: BFB	83.3	37.7-212	%Rec	1	10/12/2022 6:38:40 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/12/2022 6:38:40 PM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 6:38:40 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 6:38:40 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/12/2022 6:38:40 PM
Surr: 4-Bromofluorobenzene	91.4	70-130	%Rec	1	10/12/2022 6:38:40 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/14/2022 2:45:54 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-102 4'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 12:50:00 PM

 Lab ID:
 2210428-009
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/13/2022 5:02:26 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/13/2022 5:02:26 AM
Surr: DNOP	79.4	21-129	%Rec	1	10/13/2022 5:02:26 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 7:02:04 PM
Surr: BFB	86.1	37.7-212	%Rec	1	10/12/2022 7:02:04 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/12/2022 7:02:04 PM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 7:02:04 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 7:02:04 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/12/2022 7:02:04 PM
Surr: 4-Bromofluorobenzene	93.3	70-130	%Rec	1	10/12/2022 7:02:04 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	180	60	mg/Kg	20	10/14/2022 2:58:18 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-104 2'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 12:55:00 PM

 Lab ID:
 2210428-010
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/13/2022 5:12:52 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/13/2022 5:12:52 AM
Surr: DNOP	80.5	21-129	%Rec	1	10/13/2022 5:12:52 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 7:25:23 PM
Surr: BFB	86.6	37.7-212	%Rec	1	10/12/2022 7:25:23 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 7:25:23 PM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 7:25:23 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 7:25:23 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/12/2022 7:25:23 PM
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	10/12/2022 7:25:23 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	410	60	mg/Kg	20	10/14/2022 3:10:43 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-106 2'

Project: Papas Fritas
 Collection Date: 10/6/2022 1:05:00 PM

 Lab ID: 2210428-011
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/13/2022 5:23:23 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/13/2022 5:23:23 AM
Surr: DNOP	94.6	21-129	%Rec	1	10/13/2022 5:23:23 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/12/2022 7:48:41 PM
Surr: BFB	86.1	37.7-212	%Rec	1	10/12/2022 7:48:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/12/2022 7:48:41 PM
Toluene	ND	0.049	mg/Kg	1	10/12/2022 7:48:41 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/12/2022 7:48:41 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/12/2022 7:48:41 PM
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	10/12/2022 7:48:41 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	150	60	mg/Kg	20	10/14/2022 3:47:57 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-108 4'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 1:15:00 PM

 Lab ID:
 2210428-012
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/13/2022 5:44:18 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/13/2022 5:44:18 AM
Surr: DNOP	85.9	21-129	%Rec	1	10/13/2022 5:44:18 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 8:35:19 PM
Surr: BFB	85.4	37.7-212	%Rec	1	10/12/2022 8:35:19 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/12/2022 8:35:19 PM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 8:35:19 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 8:35:19 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/12/2022 8:35:19 PM
Surr: 4-Bromofluorobenzene	94.1	70-130	%Rec	1	10/12/2022 8:35:19 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	210	60	mg/Kg	20	10/14/2022 4:00:21 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-109 2'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 1:20:00 PM

 Lab ID:
 2210428-013
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/13/2022 5:54:47 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/13/2022 5:54:47 AM
Surr: DNOP	74.4	21-129	%Rec	1	10/13/2022 5:54:47 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 8:58:46 PM
Surr: BFB	83.6	37.7-212	%Rec	1	10/12/2022 8:58:46 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/12/2022 8:58:46 PM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 8:58:46 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 8:58:46 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/12/2022 8:58:46 PM
Surr: 4-Bromofluorobenzene	91.7	70-130	%Rec	1	10/12/2022 8:58:46 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	400	60	mg/Kg	20	10/14/2022 4:12:46 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210428** *19-Oct-22*

Client: Vertex Resources Services, Inc.

Project: Papas Fritas

Sample ID: MB-70820 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70820 RunNo: 91800

Prep Date: 10/13/2022 Analysis Date: 10/13/2022 SeqNo: 3291259 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-70820 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70820 RunNo: 91800

Prep Date: 10/13/2022 Analysis Date: 10/13/2022 SeqNo: 3291260 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.9 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210428**

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas

Sample ID: LCS-70721 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 70721 RunNo: 91700

Prep Date: 10/11/2022 Analysis Date: 10/11/2022 SeqNo: 3286198 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Diesel Range Organics (DRO) 33 15 50.00 Λ 67.0 64.4 127 Surr: DNOP 3.3 5.000 66.3 21 129

Sample ID: MB-70721 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS Batch ID: 70721 RunNo: 91700

OHOTE D. 100 BOUGHTB. 10121 TOTAL

Prep Date: 10/11/2022 Analysis Date: 10/11/2022 SeqNo: 3286199 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 15 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 8.3 10.00 82.6 129 21

Sample ID: LCS-70717 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 70717 RunNo: 91700

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3288664 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 3.9 5.000 77.8 21 129

Sample ID: MB-70717 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 70717 RunNo: 91700 Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3288669 Units: %Rec PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Result LowLimit HighLimit Qual Surr: DNOP 9.9 10.00 98.8 129 21

Sample ID: LCS-70748 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 70748 RunNo: 91700 Prep Date: 10/11/2022 Analysis Date: 10/13/2022 SeqNo: 3291224 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Diesel Range Organics (DRO) 38 15 50.00 n 75.3 46.9 103 Surr: DNOP 4.0 5.000 80.2 21 129

Sample ID: MB-70748 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS Batch ID: 70748 RunNo: 91700
Prep Date: 10/11/2022 Analysis Date: 10/13/2022 SeqNo: 3291225 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit

Diesel Range Organics (DRO) ND 15

Result

PQL

Qualifiers:

Analyte

- 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 interference
- B Analyte detected in the associated Method Blank

HighLimit

%RPD

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

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RPDLimit

Qual

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

2210428 19-Oct-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Papas Fritas

Sample ID: MB-70748 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 70748 RunNo: 91700

Prep Date: 10/11/2022 Analysis Date: 10/13/2022 SeqNo: 3291225 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.9 10.00 98.5 21 129

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210428 19-Oct-22**

Client: Vertex Resources Services, Inc.

Project: Papas Fritas

Sample ID: mb-70714 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70714 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286403 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 860 1000 86.4 37.7 212

Sample ID: Ics-70714 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70714 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286404 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 86.7 72.3 137 Surr: BFB 1700 1000 173 37.7 212

Sample ID: mb-70712 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70712 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286419 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Surr: BFB
 870
 1000
 87.2
 37.7
 212

Sample ID: Ics-70712 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70712 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286420 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 1800 1000 178 37.7 212

Sample ID: mb-70734 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70734 RunNo: 91747

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289015 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 880 1000 87.7 37.7 212

Sample ID: Ics-70734 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70734 RunNo: 91747

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289016 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 0 95.3 72.3 137

Surr: BFB 1800 1000 184 37.7 212

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210428**

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas

Sample ID: mb-70714	Samp ⁻	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batc	h ID: 70	714	F	RunNo: 9	1687				
Prep Date: 10/10/2022	Analysis [Date: 10)/11/2022	S	SeqNo: 3	286448	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.1	70	130			
Sample ID: LCS-70714	Samn ⁻	Type: LC	· S	TestCode: EPA Method 8021B: Volatiles						

Sample 1D. LC3-70714	Sampi	ype. LC	.3	163	icode. Ei	A Melilou	OUZ ID. VUIA	iies		
Client ID: LCSS	Batcl	h ID: 70	714	F	RunNo: 9	1687				
Prep Date: 10/10/2022	Analysis D	Date: 10)/11/2022	9	SeqNo: 3	286449	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.7	80	120			
Toluene	0.90	0.050	1.000	0	89.6	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.5	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.3	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.9	70	130			

Sample ID: mb-70712	SampTy	/pe: ME	BLK	Test	tCode: El	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	ID: 70	712	R	tunNo: 9	1687				
Prep Date: 10/10/2022	Analysis Da	ate: 10)/11/2022	S	SeqNo: 3	286464	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.93		1.000		93.0	70	130			

Sample ID: LCS-70712	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles			
Client ID: LCSS	Batch	ID: 70	712	F	RunNo: 9	1687					
Prep Date: 10/10/2022	Analysis D	ate: 10	0/11/2022	S	SeqNo: 3	286465	Units: %Red	;			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	0.95		1.000	_	95.1	70	130				

Sample ID: mb-70734	SampT	Гуре: МЕ	BLK	Test	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	h ID: 70	734	R	RunNo: 9	1747				
Prep Date: 10/11/2022	2 Analysis D	Date: 10)/12/2022	S	SeqNo: 3	289053	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								

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

0.96

WO#: **2210428**

Qual

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas

Surr: 4-Bromofluorobenzene

Sample ID: mb-70734 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 70734 RunNo: 91747

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289053 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

95.7

70

130

Sample ID: LCS-70734 SampType: LCS TestCode: EPA Method 8021B: Volatiles

1.000

Client ID: LCSS Batch ID: 70734 RunNo: 91747

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289054 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit

Benzene 0.96 0.025 1.000 0 96.5 80 120 Toluene 0.96 0.050 1.000 0 96.5 80 120 0 96.3 80 Ethylbenzene 0.96 0.050 1.000 120 Xylenes, Total 2.9 0.10 3.000 0 95.8 80 120

Surr: 4-Bromofluorobenzene 0.95 1.000 95.1 70 130

Sample ID: 2210428-005ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: **BES22-68 2'** Batch ID: **70734** RunNo: **91747**

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289062 Units: mg/Kg SPK value SPK Ref Val Result PQL %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte 1.0 0.023 0.9355 0 107 68.8 120 Renzene Toluene 1.0 0.047 0.9355 0 107 73.6 124 0.047 0 72.7 Ethylbenzene 1.0 0.9355 109 129 Xylenes, Total 3.0 0.094 2.806 0.01816 107 75.7 126 Surr: 4-Bromofluorobenzene 0.90 0.9355 95.9 130 70

Sample ID: 2210428-005amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: **BES22-68 2'** Batch ID: **70734** RunNo: **91747**

Prep Date: 10/11/2022	Analysis [Date: 10	0/12/2022	9	SeqNo: 3	289063	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9434	0	108	68.8	120	2.01	20	
Toluene	1.0	0.047	0.9434	0	109	73.6	124	2.30	20	
Ethylbenzene	1.0	0.047	0.9434	0	109	72.7	129	0.744	20	
Xylenes, Total	3.0	0.094	2.830	0.01816	107	75.7	126	0.697	20	
Surr: 4-Bromofluorobenzene	0.89		0.9434		94.5	70	130	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

Sample Log-In Check List

Client Name:	Vertex Resources Services, Inc.	Work Order Num	nber: 22104	28	RcptN	o: 1
Received By:	Cheyenne Cason	10/8/2022 8:30:00	AM	Chul		
Completed By:	Cheyenne Cason	10/8/2022 9:16:21	AM	Chul	2	
Reviewed By:	20	10/8				
Chain of Cus	tody					
1. Is Chain of C	ustody complete?		Yes 5	✓ No	☐ Not Present ☐	
2. How was the	sample delivered?		Courie	r		
Log In						
3. Was an attern	npt made to cool the samp	oles?	Yes N	No [□ NA □	
4. Were all samp	oles received at a tempera	ature of >0° C to 6.0°C	Yes •	No [□ NA □	
5. Sample(s) in p	proper container(s)?		Yes 💽	No [
6. Sufficient sam	ple volume for indicated t	est(s)?	Yes V	No [
7. Are samples (except VOA and ONG) pr	operly preserved?	Yes 🗸	No [
8. Was preservat	tive added to bottles?		Yes [No S	✓ NA □	
9. Received at le	ast 1 vial with headspace	<1/4" for AQ VOA?	Yes [No [NA 🗹	
10, Were any sam	nple containers received b	proken?	Yes -	No E		7.4
	rk match bottle labels?)	Yes 🔽	No [or≫12 unless noted)
12. Are matrices c	orrectly identified on Cha	n of Custody?	Yes V	No [- 1 10	
13. Is it clear what	analyses were requested	?	Yes 🗸	No [11-1
	ng times able to be met? ustomer for authorization.)		Yes 🗸	No [Checked by:	mc 10/8/2
	ing (if applicable)					
	tified of all discrepancies	with this order?	Yes [No [□ NA 🗹	
Person I	Notified:	Date			_	
By Who	m:	Via:	eMail	☐ Phone ☐ F	Fax In Person	
Regardi	13. The second					
	structions:					
16. Additional ren	narks:					
17. Cooler Inform Cooler No	Temp °C Condition 4.9 Good	Seal Intact Seal No Not Present	Seal Date	Signed By		

	lient.	Discour (**)	, T	,				INI	ū	177	ANCO	ATMAN	ved
10 10 10 10 10 10 10 10	JIETT Vertex (Devan)	Standar Standar		5 Day		П	N	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V		DATOD	. 0
19 Address; 0, 1 1 1 1 1 1 1 1 1 1			Project Nam	ie:	,)	1		CD
10 Fearth: Project # Project Manager: Container Project Manager: Container Project Manager: Container Project Manager: Container Project Manager: Project Manag	Aailing Address: or			Fritas		49	01 Haw	kins NF	Ē,		rital.com	001	: 12/
10 Fackage 10			Project #:			· -	-505 le	45.30	11	adacio	F 24E 4407	60	2/20
	hone #:		77E	-1410 -	1		900	200	Analy		guest		22 2.
Sampler Accompliance Cooper Temporation Accompliance Accompliance Cooper Temporation According to Nation Acc	mail or Fax#:		Project Man	ager:			H	L	⁺C		(1)		:04:
Contained Az Compliance Sampler: #F CRC Onlice: #7 Ves Onlice: #7 Onlice: #7 Onlice: #7 Onlice: #7 Onlice: #7 Ves Onlice: #7 Onlice: #7	2A/QC Package:] Standard	☐ Level 4 (Full Validation)	Kent	Statin	3		bcB,8	SWIS	PO₄, S(nəsdA\t		46 PM -
10.05 B E S 2 2 - 10 4 Cooler Time Matrix Sample Name Type and # Type Time Matrix Sample Name Type and # Type Time Matrix Sample Name Type and # Type Type and # Type and # Type Type and # Type and # Type Type and # Type and		vz Compliance		JE/SPC	,				10 ⁵		uəse		
Time Matrix Sample Name Fooler Templementing Co. Cooler Templementing Cooler Temple Cooler Templementing		Other		res The	ON 🗆			10	_	(\(\Pri \)			
Time Matrix Sample Name Cooler Templomouting or); 4.4.0 \(\text{Cooler Templomouting or)}; 4.4.0	T EDD (Type)		# of Coolers) :				01	_				
Time Matrix Sample Name Container Preservative HEAL No.			Cooler Temp	100000	٠			£8 y					
10:05 BES22-67 1' cos	Time		Container Type and #	Preservative Type	121	_		d sHA9					
15.08 BES22-65 2'		l ji	21-jar	1,26	301				-	-			
10:08 B E S 22 - 65 2'	4:50	BES12-62 2	-	-	COS								
10:05 BES22-67 1'	10:08	5			<i>w3</i>								
10:10 B E S 22 - 68 2' COS COS I 155 B E S 22 - 90 4' COS CO	10:05	19			H0		H						
11:45 8 Es22- 40 4'	10:10				500								
11:55 B ES 22- 96 4' 220 12:50 B ES 22- 96 4' 220 12:50 B ES 22- 104 2' 23:05 B ES 22- 104 2' 23:05 B ES 22- 106 2' 23:05 B ES 22- 106 2' 23:05 B ES 22- 106 2' 240 B ES 22- 106 2' 25 m gall Employer Brown	11:45	60			900								
12:50 BES22-96 4° Coop 12:50 BES22-104 2° Coop 13:05 BES22-104 2° Colo 13:05 BES22-106 2° Colo 13:15 J BES22-106 4° Colo Time: Relinquished by: Date Time Remark	11,555	15			901								
12:50 BES22-104 2' Old 13:05 BES22-104 2' Old 13:05 BES22-106 2' Old 13:15 J BES22-106 4' Old Time: Relinquished by: Spin graft England Cold Mills 11 11 10 10 10 10 10 10 10 10 10 10 10	12:00	96			800					H			
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

October 21, 2022

Kent Stallings Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX

RE: Papas Fritas 27 CTB 1 OrderNo.: 2210467

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 9 sample(s) on 10/11/2022 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 Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-01 0-2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/7/2022 9:45:00 AM

 Lab ID:
 2210467-001
 Matrix: SOIL
 Received Date: 10/11/2022 7:25:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/13/2022 7:07:55 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/13/2022 7:07:55 AM
Surr: DNOP	95.2	21-129	%Rec	1	10/13/2022 7:07:55 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 9:45:45 PM
Surr: BFB	82.8	37.7-212	%Rec	1	10/12/2022 9:45:45 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 9:45:45 PM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 9:45:45 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 9:45:45 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/12/2022 9:45:45 PM
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	1	10/12/2022 9:45:45 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/14/2022 9:55:49 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 16

Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-02 0-2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/7/2022 9:50:00 AM

 Lab ID:
 2210467-002
 Matrix: SOIL
 Received Date: 10/11/2022 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/13/2022 7:18:25 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/13/2022 7:18:25 AM
Surr: DNOP	81.3	21-129	%Rec	1	10/13/2022 7:18:25 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 10:09:19 PM
Surr: BFB	84.9	37.7-212	%Rec	1	10/12/2022 10:09:19 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 10:09:19 PM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 10:09:19 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 10:09:19 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/12/2022 10:09:19 PM
Surr: 4-Bromofluorobenzene	92.0	70-130	%Rec	1	10/12/2022 10:09:19 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	59	mg/Kg	20	10/14/2022 10:08:14 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-12 0-4'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/7/2022 10:05:00 AM

 Lab ID:
 2210467-003
 Matrix: SOIL
 Received Date: 10/11/2022 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/13/2022 7:28:56 AM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	10/13/2022 7:28:56 AM
Surr: DNOP	92.7	21-129	%Rec	1	10/13/2022 7:28:56 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 10:32:54 PM
Surr: BFB	82.4	37.7-212	%Rec	1	10/12/2022 10:32:54 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 10:32:54 PM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 10:32:54 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 10:32:54 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/12/2022 10:32:54 PM
Surr: 4-Bromofluorobenzene	90.8	70-130	%Rec	1	10/12/2022 10:32:54 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/14/2022 10:20:38 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-17 0-2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/7/2022 10:15:00 AM

 Lab ID:
 2210467-004
 Matrix: SOIL
 Received Date: 10/11/2022 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/13/2022 7:39:27 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/13/2022 7:39:27 AM
Surr: DNOP	55.3	21-129	%Rec	1	10/13/2022 7:39:27 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 10:56:29 PM
Surr: BFB	85.2	37.7-212	%Rec	1	10/12/2022 10:56:29 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 10:56:29 PM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 10:56:29 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 10:56:29 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/12/2022 10:56:29 PM
Surr: 4-Bromofluorobenzene	92.9	70-130	%Rec	1	10/12/2022 10:56:29 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	350	60	mg/Kg	20	10/14/2022 10:33:02 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-20 0-2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/7/2022 10:20:00 AM

 Lab ID:
 2210467-005
 Matrix: SOIL
 Received Date: 10/11/2022 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/13/2022 7:49:59 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/13/2022 7:49:59 AM
Surr: DNOP	82.9	21-129	%Rec	1	10/13/2022 7:49:59 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/12/2022 11:20:02 PM
Surr: BFB	84.9	37.7-212	%Rec	1	10/12/2022 11:20:02 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/12/2022 11:20:02 PM
Toluene	ND	0.046	mg/Kg	1	10/12/2022 11:20:02 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/12/2022 11:20:02 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/12/2022 11:20:02 PM
Surr: 4-Bromofluorobenzene	92.9	70-130	%Rec	1	10/12/2022 11:20:02 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	330	60	mg/Kg	20	10/14/2022 10:45:26 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-21 0-2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/7/2022 10:25:00 AM

 Lab ID:
 2210467-006
 Matrix: SOIL
 Received Date: 10/11/2022 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/14/2022 11:59:32 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/14/2022 11:59:32 AM
Surr: DNOP	117	21-129	%Rec	1	10/14/2022 11:59:32 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/12/2022 12:06:00 PM
Surr: BFB	95.7	37.7-212	%Rec	1	10/12/2022 12:06:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	10/12/2022 12:06:00 PM
Toluene	ND	0.050	mg/Kg	1	10/12/2022 12:06:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/12/2022 12:06:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/12/2022 12:06:00 PM
Surr: 4-Bromofluorobenzene	96.1	70-130	%Rec	1	10/12/2022 12:06:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	330	60	mg/Kg	20	10/14/2022 10:57:51 PM

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

Qualifiers:

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

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Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-30 0-2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/7/2022 10:35:00 AM

 Lab ID:
 2210467-007
 Matrix: SOIL
 Received Date: 10/11/2022 7:25:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Analyst: SB	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/14/2022 1:10:35 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/14/2022 1:10:35 PM
Surr: DNOP	97.2	21-129	%Rec	1	10/14/2022 1:10:35 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 1:05:00 PM
Surr: BFB	94.8	37.7-212	%Rec	1	10/12/2022 1:05:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	10/12/2022 1:05:00 PM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 1:05:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 1:05:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/12/2022 1:05:00 PM
Surr: 4-Bromofluorobenzene	94.4	70-130	%Rec	1	10/12/2022 1:05:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	110	59	mg/Kg	20	10/14/2022 11:10:16 PM

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

Qualifiers:

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

Page 7 of 16

Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-34 0-2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/7/2022 10:50:00 AM

 Lab ID:
 2210467-008
 Matrix: SOIL
 Received Date: 10/11/2022 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/14/2022 1:34:13 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/14/2022 1:34:13 PM
Surr: DNOP	98.0	21-129	%Rec	1	10/14/2022 1:34:13 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 2:24:00 PM
Surr: BFB	96.8	37.7-212	%Rec	1	10/12/2022 2:24:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	10/12/2022 2:24:00 PM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 2:24:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 2:24:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/12/2022 2:24:00 PM
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	10/12/2022 2:24:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/17/2022 11:18:00 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 16

Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-35 0-4'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/7/2022 11:00:00 AM

 Lab ID:
 2210467-009
 Matrix: SOIL
 Received Date: 10/11/2022 7:25:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/14/2022 1:57:53 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	10/14/2022 1:57:53 PM
Surr: DNOP	122	21-129	%Rec	1	10/14/2022 1:57:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/12/2022 2:43:00 PM
Surr: BFB	92.5	37.7-212	%Rec	1	10/12/2022 2:43:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/12/2022 2:43:00 PM
Toluene	ND	0.046	mg/Kg	1	10/12/2022 2:43:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/12/2022 2:43:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	10/12/2022 2:43:00 PM
Surr: 4-Bromofluorobenzene	93.3	70-130	%Rec	1	10/12/2022 2:43:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	300	60	mg/Kg	20	10/17/2022 11:30:20 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2210467 21-Oct-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: MB-70846 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70846 RunNo: 91834

Prep Date: 10/14/2022 Analysis Date: 10/14/2022 SeqNo: 3293127 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-70846 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70846 RunNo: 91834

Prep Date: 10/14/2022 Analysis Date: 10/14/2022 SeqNo: 3293128 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.1 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2210467 21-Oct-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: LCS-70748	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batch	n ID: 70	748	F	RunNo: 9	1700				
Prep Date: 10/11/2022	Analysis D	oate: 10	0/13/2022	8	SeqNo: 3	291224	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	15	50.00	0	75.3	46.9	103			
Surr: DNOP	4.0		5.000		80.2	21	129			
Sample ID: MB-70748	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: PBS	Batch	n ID: 70	748	F	RunNo: 9	1700				
Prep Date: 10/11/2022	Analysis D	oate: 10	0/13/2022	S	SeqNo: 3	291225	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		98.5	21	129			
Surr: DNOP Sample ID: MB-70822		ype: ME		Tes			129 8015M/D: Di	esel Range	e Organics	

Client ID: PBS	Batch	ID: 70 8	822	F	RunNo: 9	1846				
Prep Date: 10/13/2022	Analysis D	ate: 10)/14/2022	S	SeqNo: 3	293491	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		121	21	129			

Sample ID: LCS-70822	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	n ID: 70	822	F	RunNo: 9	1846					
Prep Date: 10/13/2022	Analysis D	ate: 10	0/14/2022	9	SeqNo: 3	293492	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	51	15	50.00	0	102	64.4	127				
Surr: DNOP	5.2		5.000		104	21	129				

Sample ID: 2210467-006AMS	Sampi	ype: M S	5	les	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: WES22-21 0-2'	Batch	1D: 70	822	F	RunNo: 9	1846				
Prep Date: 10/13/2022	Analysis D	ate: 10	0/14/2022	2022 SeqNo: 3293494 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	13	42.70	0	115	36.1	154			
Surr: DNOP	4.7		4.270		109	21	129			

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2210467 21-Oct-22

Qual

WO#:

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: 2210467-006AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: WES22-21 0-2' Batch ID: 70822 RunNo: 91846

Prep Date: 10/13/2022 Analysis Date: 10/14/2022 SeqNo: 3293495 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLIMIT	
Diesel Range Organics (DRO)	46	15	49.41	0	92.8	36.1	154	7.23	33.9	
Surr: DNOP	3.9		4.941		78.6	21	129	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210467**

21-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: mb-70734 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70734 RunNo: 91747

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289015 Units: mq/Kq

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 880 1000 87.7 37.7 212

Sample ID: Ics-70734 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70734 RunNo: 91747

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289016 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 O 95.3 72.3 137

Surr: BFB 1800 1000 184 37.7 212

Sample ID: Ics-70739 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70739 RunNo: 91729

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289240 Units: mg/Kg

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result POI %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) 24 5.0 25.00 0 94.0 72.3 137 Surr: BFB 37.7 2000 1000 204 212

Sample ID: mb-70739 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70739 RunNo: 91729

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289241 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Gasoline Range Organics (GRO) ND 5.0
Surr: BFB 970

Sample ID: 2210467-006ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: WES22-21 0-2' Batch ID: 70739 RunNo: 91729

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289251 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 0 70 25.00 95.6 130 Surr: BFB 2200 1000 216 37.7 212 S

Sample ID: 2210467-006amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: WES22-21 0-2' Batch ID: 70739 RunNo: 91729

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289252 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank

97.3

37.7

212

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210467**

21-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: 2210467-006amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: WES22-21 0-2' Batch ID: 70739 RunNo: 91729

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289252 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	24.98	0	100	70	130	4.72	20	
Surr: BFB	2200		999.0		218	37.7	212	0	0	S

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210467**

21-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: mb-70734	SampT	ype: ME	BLK	Test	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: 70 7	734	R	tunNo: 9	1747				
Prep Date: 10/11/2022	Analysis D	ate: 10	/12/2022	S	SeqNo: 3	289053	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								

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

 Surr. 4-Bromofluorobenzene
 0.96

 Surr: 4-Bromofluorobenzene
 0.96
 1.000
 95.7
 70
 130

Sample ID: LCS-70734	Samp1	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	h ID: 70	734	F	RunNo: 9	1747				
Prep Date: 10/11/2022	Analysis D	Date: 10)/12/2022	8	SeqNo: 3	289054	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.5	80	120			
Toluene	0.96	0.050	1.000	0	96.5	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.8	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	70	130			

Sample ID: Ics-70739	SampT	ype: LC	s	Tes	tCode: El	iles				
Client ID: LCSS	Batcl	h ID: 70	739	F	RunNo: 9					
Prep Date: 10/11/2022	Analysis D	Date: 10)/12/2022	8	SeqNo: 3	289261	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	111	80	120			
Toluene	1.1	0.050	1.000	0	109	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: mb-70739	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 70	739	F	RunNo: 9	1729				
Prep Date: 10/11/2022	Analysis D	oate: 10)/12/2022	8	SeqNo: 3	289262	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-Bromofluorobenzene	0.96		1.000		96.0	70	130			

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210467**

21-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: 2210467-007ams	SampT	ype: MS	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: WES22-30 0-2'	Batch	n ID: 70 7	739	F	RunNo: 9	1729				
Prep Date: 10/11/2022	Analysis D	oate: 10)/12/2022	S	SeqNo: 3	289265	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.024	0.9425	0	122	68.8	120			S
Toluene	1.1	0.047	0.9425	0	121	73.6	124			
Ethylbenzene	1.1	0.047	0.9425	0	122	72.7	129			
Xylenes, Total	3.4	0.094	2.828	0	119	75.7	126			
Surr: 4-Bromofluorobenzene	0.92		0.9425		97.8	70	130			

Sample ID: 2210467-007ams	id Samp∃	Гуре: М\$	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: WES22-30 0-2'	Batcl	h ID: 70	739	F	RunNo: 9	1729				
Prep Date: 10/11/2022	Analysis D	Date: 10)/12/2022	8	SeqNo: 3	289266	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.023	0.9381	0	118	68.8	120	4.16	20	
Toluene	1.1	0.047	0.9381	0	116	73.6	124	4.45	20	
Ethylbenzene	1.1	0.047	0.9381	0	116	72.7	129	5.08	20	
Xylenes, Total	3.2	0.094	2.814	0	114	75.7	126	4.95	20	
Surr: 4-Bromofluorobenzene	0.92		0.9381		98.1	70	130	0	0	

Qualifiers:

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

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

Sample Log-In Check List

Completed By: Completed By: Completed By: Completed By: Complete By: C	dy ody complete? mple delivered? made to cool the sample s received at a temperate	10/11/2022 7:25:00 10/11/2022 8:40:00 \	8 AM Yes <u>Cour</u> i		Chal No [Not Present	
Chain of Custor Chain of Custor Is Chain of Custor How was the san Log In Was an attempt r Were all samples Sample(s) in prop	dy ody complete? mple delivered? made to cool the sample	1.37	Yes <u>Cour</u> i				
Chain of Custoe 1. Is Chain of Custoe 2. How was the san Log In 3. Was an attempt r 4. Were all samples 5. Sample(s) in prop 6. Sufficient sample	dy ody complete? mple delivered? made to cool the sample s received at a temperate		Couri				
 Is Chain of Custo How was the san Log In Was an attempt r Were all samples Sample(s) in prop Sufficient sample 	ody complete? mple delivered? made to cool the sample received at a temperati	es?	Couri		No 🗌	Not Present	
 How was the san Log In Was an attempt r Were all samples Sample(s) in prop Sufficient sample 	mple delivered? made to cool the sample received at a temperate	∍s?	Couri		No 🗌	Not Present	
Log In 3. Was an attempt r 4. Were all samples 5. Sample(s) in prop 6. Sufficient sample	made to cool the sample received at a temperati	es?		er			
3. Was an attempt r4. Were all samples5. Sample(s) in prop6. Sufficient sample	received at a temperatu	∍s?					
3. Was an attempt r4. Were all samples5. Sample(s) in prop6. Sufficient sample	received at a temperatu	es?					
 Sample(s) in prop Sufficient sample 			Yes	~	No 🗌	NA 🗆	
6. Sufficient sample	urani i i i i i i i i i i i i i i i i i i	ure of >0° C to 6.0°C	Yes	~	No 🗌	NA 🗆	
	per container(s)?		Yes	V	No 🗌		
7 Are complex /eve-	volume for indicated tes	st(s)?	Yes	~	No 🗌		
7. Are samples (exce	ept VOA and ONG) prop	perly preserved?	Yes	~	No 🗆		
8. Was preservative			Yes		No 🗸	NA 🗌	
9. Received at least	1 vial with headspace <	1/4" for AQ VOA?	Yes [No 🗌	NA 🗸	
	containers received bro		Yes		No 🗸		
						# of preserved bottles checked	
11. Does paperwork m			Yes [V	No 🗌	for pH:	
	es on chain of custody)						or >12 unless noted)
	ectly identified on Chain		Yes		No 🗌	Adjusted?	
	alyses were requested?			1	No 🗌		
 Were all holding till (If no, notify custor) 	mes able to be met? mer for authorization.)		Yes		No 🗆	Checked by:	Juliali /22
Special Handling	(if applicable)						
	d of all discrepancies wil	th this order?	Yes		No 🗌	NA 🗹	
Person Notin	fied:	Date:					
By Whom:		Via:	☐ eMai	I DE	hone Fax	☐ In Person	
Regarding:						D. 11 C 15 TV	
Client Instru	ictions:						
16. Additional remark	(S:						
17. Cooler Informati	ion						
and the first of the second se	emp °C Condition	Seal Intact Seal No	Seal Dat	s 11 .	SELECTION OF		
1 2.0		Seal Intact Seal No	3821 I 101		Signed By		

Client: Vertex (Devon Mailing Address: On Lill Phone #: cavac Package: Standard		(Devon) on tile		Standard		1 N N 1			Ì	HALL	N	IIR	ENVIRONMENT	d b
Mailing Addre Phone #: email or Fax# QA/QC Packag □ Standard Accreditation: □ NELAC □ EDD (Type		n tile		A STREET OF STREET STREET		いいが				INI	TUN	-		
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Phone #: email or Fax# QA/QC Packag □ Standard Accreditation: □ NELAC □ EDD (Type				Papas		Fritas 27 cto,		www.h	W G	ww.hall	www.hallenvironmental.com	menta	.com): 12/
Phone #: email or Fax# QA/QC Packag Standard Accreditation: NELAC EDD (Type		>		Project #:			T	Toler	A SAE	- 3NE -	Albuqu	ror e	Albuquerque, NM 87109	(2/20
email or Fax# QA/QC Packag Carreditation: Carredi				LE-	- 01414	4		(d)	000-040-000	A A	Analysis	Sedillest	rax 505-345-4107	22 2
QA/QC Packag Standard Accreditation: DEDD (Type				Project Manager:	ager:		_	((* (2:04.
Accreditation: □ NELAC □ EDD (Type			(acitobi	Kent		Statings			21/1		OS ԠO	,	nesav	:46 PM
□ NELAC □ EDD (Type		□ Az Compliance	adding.	Sampler.	SE	5					ار ₂ ر	/,	/ALIA	
□ EDD (Type		e		On Ice:) /s	NO I					NC		SAL	
Date Time	_			# of Coolers:						sls	,£O		١١ (٦	
				Cooler Temp	Cooler Temp(including CF). 7	-6-1-7.0 (°C)	TM			teM.		/-ime	ПОШ	
	Matrix	Sample Name		Container Type and #	Preservative Type	HEAL No.	\ <u>(1)</u>	.08:H91 94 1808	M) 803	8 AADS	39°E, B	S) 072	oO lsto	
10/7 9:45	5 Soil	WES22-01	0-5	403 jar	ice			V 19		4		8		
1 9:50	1	WES22-02	0-2'			6.60					_			
10:05	2	WES22-12	140		14	60.3								
10:15		WES 22-17	17-0			27								
10:20	0	WES22-20	17-0			500								
10:25	10	WES22-21	0-5'			200			-					
10:35	10	WES 22-30	12-0			700								
10:50	0	WES22-34	17-0			800								
00:11	-	WES22-35	24'	-	,	has								
Date: Time:	Relinquished hv.	ed hv:		Doctorion but	Vie	i								
4	Sally	y Cartan		ゴ	رمهمال	10/10/11 1030	Remarks:	ks: 07K	ord	井方	MINK Order # 2097674	3763	141	Page
10/12/1900	(MMLL)	Plu 1900 all all all all all all all all all a		Received by:	Via:	Date Time								191 of .



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

October 24, 2022

Kent Stallings Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX:

RE: Papas Fritas 27 CTB 1 OrderNo.: 2210780

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 21 sample(s) on 10/15/2022 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 Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-86 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:00:00 PM

 Lab ID:
 2210780-001
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/18/2022 8:32:48 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/18/2022 8:32:48 PM
Surr: DNOP	149	21-129	S	%Rec	1	10/18/2022 8:32:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/17/2022 1:47:53 PM
Surr: BFB	87.4	37.7-212		%Rec	1	10/17/2022 1:47:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/17/2022 1:47:53 PM
Toluene	ND	0.050		mg/Kg	1	10/17/2022 1:47:53 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/17/2022 1:47:53 PM
Xylenes, Total	ND	0.099		mg/Kg	1	10/17/2022 1:47:53 PM
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	10/17/2022 1:47:53 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	10/17/2022 10:47:19 PM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-87 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:05:00 PM

 Lab ID:
 2210780-002
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/18/2022 9:05:14 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/18/2022 9:05:14 PM
Surr: DNOP	151	21-129	S	%Rec	1	10/18/2022 9:05:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/17/2022 2:58:08 PM
Surr: BFB	87.2	37.7-212		%Rec	1	10/17/2022 2:58:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/17/2022 2:58:08 PM
Toluene	ND	0.049		mg/Kg	1	10/17/2022 2:58:08 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/17/2022 2:58:08 PM
Xylenes, Total	ND	0.098		mg/Kg	1	10/17/2022 2:58:08 PM
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	10/17/2022 2:58:08 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	10/17/2022 10:59:44 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
- 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-88 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:10:00 PM

 Lab ID:
 2210780-003
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 9:16:00 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/18/2022 9:16:00 PM
Surr: DNOP	93.1	21-129	%Rec	1	10/18/2022 9:16:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 4:08:36 PM
Surr: BFB	87.7	37.7-212	%Rec	1	10/17/2022 4:08:36 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 4:08:36 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 4:08:36 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 4:08:36 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/17/2022 4:08:36 PM
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	10/17/2022 4:08:36 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/17/2022 8:59:34 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-89 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:15:00 PM

 Lab ID:
 2210780-004
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/18/2022 9:26:44 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/18/2022 9:26:44 PM
Surr: DNOP	138	21-129	S	%Rec	1	10/18/2022 9:26:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/17/2022 5:42:59 PM
Surr: BFB	86.9	37.7-212		%Rec	1	10/17/2022 5:42:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/17/2022 5:42:59 PM
Toluene	ND	0.050		mg/Kg	1	10/17/2022 5:42:59 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/17/2022 5:42:59 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/17/2022 5:42:59 PM
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	10/17/2022 5:42:59 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	10/17/2022 10:01:17 PM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-91 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:20:00 PM

 Lab ID:
 2210780-005
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/18/2022 9:37:27 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/18/2022 9:37:27 PM
Surr: DNOP	101	21-129	%Rec	1	10/18/2022 9:37:27 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/17/2022 6:06:27 PM
Surr: BFB	85.7	37.7-212	%Rec	1	10/17/2022 6:06:27 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 6:06:27 PM
Toluene	ND	0.050	mg/Kg	1	10/17/2022 6:06:27 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/17/2022 6:06:27 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/17/2022 6:06:27 PM
Surr: 4-Bromofluorobenzene	92.4	70-130	%Rec	1	10/17/2022 6:06:27 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/17/2022 10:38:18 PM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-92 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:25:00 PM

 Lab ID:
 2210780-006
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 9:48:09 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/18/2022 9:48:09 PM
Surr: DNOP	120	21-129	%Rec	1	10/18/2022 9:48:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 6:29:52 PM
Surr: BFB	86.9	37.7-212	%Rec	1	10/17/2022 6:29:52 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/17/2022 6:29:52 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 6:29:52 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 6:29:52 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/17/2022 6:29:52 PM
Surr: 4-Bromofluorobenzene	95.0	70-130	%Rec	1	10/17/2022 6:29:52 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/17/2022 10:50:38 PM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-93 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:30:00 PM

 Lab ID:
 2210780-007
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qua	d Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/18/2022 9:58:50 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/18/2022 9:58:50 PM
Surr: DNOP	89.5	21-129	%Rec	1	10/18/2022 9:58:50 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 6:53:17 PM
Surr: BFB	85.8	37.7-212	%Rec	1	10/17/2022 6:53:17 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 6:53:17 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 6:53:17 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 6:53:17 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/17/2022 6:53:17 PM
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	10/17/2022 6:53:17 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/17/2022 11:02:59 PM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-94 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:35:00 PM

 Lab ID:
 2210780-008
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 10:20:02 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/18/2022 10:20:02 PM
Surr: DNOP	95.2	21-129	%Rec	1	10/18/2022 10:20:02 PM
EPA METHOD 8015D: GASOLINE RANGE	<u> </u>				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 7:16:49 PM
Surr: BFB	86.0	37.7-212	%Rec	1	10/17/2022 7:16:49 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 7:16:49 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 7:16:49 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 7:16:49 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/17/2022 7:16:49 PM
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	10/17/2022 7:16:49 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/17/2022 11:15:20 PM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-97 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:40:00 PM

 Lab ID:
 2210780-009
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 10:30:41 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/18/2022 10:30:41 PM
Surr: DNOP	91.8	21-129	%Rec	1	10/18/2022 10:30:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/17/2022 7:40:27 PM
Surr: BFB	87.4	37.7-212	%Rec	1	10/17/2022 7:40:27 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/17/2022 7:40:27 PM
Toluene	ND	0.048	mg/Kg	1	10/17/2022 7:40:27 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/17/2022 7:40:27 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/17/2022 7:40:27 PM
Surr: 4-Bromofluorobenzene	95.4	70-130	%Rec	1	10/17/2022 7:40:27 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/17/2022 11:27:41 PM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-98 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:45:00 PM

 Lab ID:
 2210780-010
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 10:41:35 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/18/2022 10:41:35 PM
Surr: DNOP	97.4	21-129	%Rec	1	10/18/2022 10:41:35 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 8:04:05 PM
Surr: BFB	85.2	37.7-212	%Rec	1	10/17/2022 8:04:05 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/17/2022 8:04:05 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 8:04:05 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 8:04:05 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/17/2022 8:04:05 PM
Surr: 4-Bromofluorobenzene	92.3	70-130	%Rec	1	10/17/2022 8:04:05 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 12:04:41 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-99 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:50:00 PM

 Lab ID:
 2210780-011
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 10:52:11 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/18/2022 10:52:11 PM
Surr: DNOP	88.0	21-129	%Rec	1	10/18/2022 10:52:11 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/17/2022 8:27:40 PM
Surr: BFB	85.1	37.7-212	%Rec	1	10/17/2022 8:27:40 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/17/2022 8:27:40 PM
Toluene	ND	0.048	mg/Kg	1	10/17/2022 8:27:40 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/17/2022 8:27:40 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/17/2022 8:27:40 PM
Surr: 4-Bromofluorobenzene	92.8	70-130	%Rec	1	10/17/2022 8:27:40 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 12:17:01 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-100 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:55:00 PM

 Lab ID:
 2210780-012
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (Analyst: mb				
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/18/2022 11:02:46 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/18/2022 11:02:46 PM
Surr: DNOP	95.5	21-129	%Rec	1	10/18/2022 11:02:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/17/2022 8:51:15 PM
Surr: BFB	86.0	37.7-212	%Rec	1	10/17/2022 8:51:15 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 8:51:15 PM
Toluene	ND	0.050	mg/Kg	1	10/17/2022 8:51:15 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/17/2022 8:51:15 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/17/2022 8:51:15 PM
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	10/17/2022 8:51:15 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 12:29:22 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-101 4'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:00:00 PM

 Lab ID:
 2210780-013
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 11:13:21 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/18/2022 11:13:21 PM
Surr: DNOP	97.7	21-129	%Rec	1	10/18/2022 11:13:21 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 9:14:40 PM
Surr: BFB	85.0	37.7-212	%Rec	1	10/17/2022 9:14:40 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 9:14:40 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 9:14:40 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 9:14:40 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/17/2022 9:14:40 PM
Surr: 4-Bromofluorobenzene	93.0	70-130	%Rec	1	10/17/2022 9:14:40 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 12:41:43 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-103 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:05:00 PM

 Lab ID:
 2210780-014
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 11:23:54 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/18/2022 11:23:54 PM
Surr: DNOP	102	21-129	%Rec	1	10/18/2022 11:23:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/17/2022 10:01:32 PM
Surr: BFB	86.9	37.7-212	%Rec	1	10/17/2022 10:01:32 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/17/2022 10:01:32 PM
Toluene	ND	0.047	mg/Kg	1	10/17/2022 10:01:32 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/17/2022 10:01:32 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/17/2022 10:01:32 PM
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	10/17/2022 10:01:32 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	59	mg/Kg	20	10/18/2022 12:54:03 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-105 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:10:00 PM

 Lab ID:
 2210780-015
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR		Analyst: mb			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/18/2022 11:34:27 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/18/2022 11:34:27 PM
Surr: DNOP	96.1	21-129	%Rec	1	10/18/2022 11:34:27 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 10:25:08 PM
Surr: BFB	85.0	37.7-212	%Rec	1	10/17/2022 10:25:08 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/17/2022 10:25:08 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 10:25:08 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 10:25:08 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/17/2022 10:25:08 PM
Surr: 4-Bromofluorobenzene	92.6	70-130	%Rec	1	10/17/2022 10:25:08 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 1:06:25 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-107 4'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:15:00 PM

 Lab ID:
 2210780-016
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 11:44:58 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/18/2022 11:44:58 PM
Surr: DNOP	98.6	21-129	%Rec	1	10/18/2022 11:44:58 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 10:48:43 PM
Surr: BFB	86.0	37.7-212	%Rec	1	10/17/2022 10:48:43 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 10:48:43 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 10:48:43 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 10:48:43 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/17/2022 10:48:43 PM
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	10/17/2022 10:48:43 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 1:18:45 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-110 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:20:00 PM

 Lab ID:
 2210780-017
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: mb				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/18/2022 11:55:29 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/18/2022 11:55:29 PM
Surr: DNOP	94.1	21-129	%Rec	1	10/18/2022 11:55:29 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 11:12:11 PM
Surr: BFB	87.0	37.7-212	%Rec	1	10/17/2022 11:12:11 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 11:12:11 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 11:12:11 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 11:12:11 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/17/2022 11:12:11 PM
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	10/17/2022 11:12:11 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 1:31:06 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-111 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:25:00 PM

 Lab ID:
 2210780-018
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR		Analyst: mb			
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/19/2022 12:06:02 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/19/2022 12:06:02 AM
Surr: DNOP	88.3	21-129	%Rec	1	10/19/2022 12:06:02 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 11:35:40 PM
Surr: BFB	88.2	37.7-212	%Rec	1	10/17/2022 11:35:40 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 11:35:40 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 11:35:40 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 11:35:40 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/17/2022 11:35:40 PM
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	10/17/2022 11:35:40 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 1:43:26 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-112 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:30:00 PM

 Lab ID:
 2210780-019
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/19/2022 12:16:34 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/19/2022 12:16:34 AM
Surr: DNOP	98.2	21-129	%Rec	1	10/19/2022 12:16:34 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 11:59:16 PM
Surr: BFB	86.2	37.7-212	%Rec	1	10/17/2022 11:59:16 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/17/2022 11:59:16 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 11:59:16 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 11:59:16 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/17/2022 11:59:16 PM
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	10/17/2022 11:59:16 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	61	mg/Kg	20	10/18/2022 1:55:47 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-113 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:35:00 PM

 Lab ID:
 2210780-020
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/19/2022 12:27:05 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/19/2022 12:27:05 AM
Surr: DNOP	101	21-129	%Rec	1	10/19/2022 12:27:05 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/18/2022 12:22:40 AM
Surr: BFB	86.5	37.7-212	%Rec	1	10/18/2022 12:22:40 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/18/2022 12:22:40 AM
Toluene	ND	0.048	mg/Kg	1	10/18/2022 12:22:40 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/18/2022 12:22:40 AM
Xylenes, Total	ND	0.097	mg/Kg	1	10/18/2022 12:22:40 AM
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	10/18/2022 12:22:40 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 2:32:49 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-09 1'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:45:00 PM

 Lab ID:
 2210780-021
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/19/2022 11:50:30 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/19/2022 11:50:30 AM
Surr: DNOP	97.4	21-129	%Rec	1	10/19/2022 11:50:30 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/18/2022 11:42:00 AM
Surr: BFB	95.3	37.7-212	%Rec	1	10/18/2022 11:42:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/18/2022 11:42:00 AM
Toluene	ND	0.050	mg/Kg	1	10/18/2022 11:42:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	10/18/2022 11:42:00 AM
Xylenes, Total	ND	0.10	mg/Kg	1	10/18/2022 11:42:00 AM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	10/18/2022 11:42:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	10/18/2022 8:04:53 PM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210780 24-***Oct-22*

Qual

Qual

RPDLimit

RPDLimit

%RPD

HighLimit

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: MB-70880 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70880 RunNo: 91872

Prep Date: 10/17/2022 Analysis Date: 10/17/2022 SeqNo: 3294593 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

 Sample ID:
 LCS-70880
 SampType:
 Ics
 TestCode:
 EPA Method 300.0:
 Anions

 Client ID:
 LCSS
 Batch ID:
 70880
 RunNo:
 91872

 Prep Date:
 10/17/2022
 Analysis Date:
 10/17/2022
 SeqNo:
 3294594
 Units:
 mg/Kg

 Analyte
 Result
 PQL
 SPK value
 SPK Ref Val
 %REC
 LowLimit
 HighLimit
 %RPD

 Chloride
 14
 1.5
 15.00
 0
 93.3
 90
 110

 Sample ID:
 MB-70881
 SampType:
 MBLK
 TestCode:
 EPA Method 300.0:
 Anions

 Client ID:
 PBS
 Batch ID:
 70881
 RunNo:
 91844

 Prep Date:
 10/17/2022
 Analysis Date:
 10/17/2022
 SeqNo:
 3294715
 Units:
 mg/Kg

%REC

I owl imit

Chloride ND 1.5

Result

Sample ID: LCS-70881 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70881 RunNo: 91844

SPK value SPK Ref Val

Cilent ID. LC55 Batch ID. 70881 Runno. 91844

POI

Prep Date: 10/17/2022 Analysis Date: 10/17/2022 SeqNo: 3294716 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.2 90 110

Sample ID: MB-70907 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70907 RunNo: 91893

Prep Date: 10/18/2022 Analysis Date: 10/18/2022 SeqNo: 3295883 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-70907 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: **LCSS** Batch ID: **70907** RunNo: **91893**

Prep Date: 10/18/2022 Analysis Date: 10/18/2022 SeqNo: 3295884 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride 14 1.5 15.00 0 95.3 90 110

Qualifiers:

Analyte

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210780**

24-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: LCS-70879	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 70879	RunNo: 91878
Prep Date: 10/17/2022	Analysis Date: 10/18/2022	SeqNo: 3294924 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	6.0 5.000	121 21 129
Sample ID: LCSD-70879	SampType: LCSD	TestCode: EPA Method 8015M/D: Diesel Range Organics

Campic ID.	-00D-70073	Campiy	рс. со	OD	100	todac. Li	Ailiculou	OU ISMI, D. DIC.	oci italige	Organics		
Client ID: L	_CSS02	Batch	ID: 70 8	379	F	RunNo: 9 1	878					
Prep Date:	10/17/2022	Analysis Da	ate: 10	/18/2022	5	SeqNo: 32	294925	Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		5.7		5 000		113	21	129	0	0		

Sample ID:	MB-70879	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch	ID: 70 8	379	F	RunNo: 9	1878				
Prep Date:	10/17/2022	Analysis D	ate: 10	/18/2022	9	SeqNo: 32	294926	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr DNOP		14		10.00		142	21	129			S

Sample ID: LCS-70858	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	n ID: 70 8	358	F	RunNo: 91	1878				
Prep Date: 10/17/2022	Analysis D	oate: 10	/18/2022	5	SeqNo: 32	295724	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	68	15	50.00	0	135	64.4	127			S
Surr: DNOP	7.2		5.000		143	21	129			S

Sample ID: MB-70858	SampT	ype: MB	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	1D: 708	358	F	RunNo: 91	1878				
Prep Date: 10/17/2022	Analysis D	ate: 10	/18/2022	5	SeqNo: 32	295728	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		115	21	129			

Sample ID: 2210780-001AMS	SampT	ype: MS	3	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BES22-86 2'	Batch	1D: 70 8	358	F	RunNo: 91	1878				
Prep Date: 10/17/2022	Analysis D	ate: 10	/18/2022	5	SeqNo: 32	296140	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	14	45.96	0	93.6	36.1	154			
Surr: DNOP	4.5		4.596		98.9	21	129			

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Batch ID: 70909

Analysis Date: 10/19/2022

PQL

15

Result

52

5.1

WO#: **2210780 24-***Oct-***22**

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: 2210780-001AMS	SampT	Гуре: М 5	SD	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BES22-86 2'	Batcl	h ID: 70 8	858	F	RunNo: 91	1878				
Prep Date: 10/17/2022	Analysis D)ate: 10)/18/2022	(SeqNo: 32	296141	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	14	45.13	0	99.0	36.1	154	3.78	33.9	
Surr: DNOP	4.6		4.513		103	21	129	0	0	
Sample ID: MB-70909	Samp1	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	h ID: 70 9	909	F	RunNo: 91	1929				
Prep Date: 10/18/2022	Analysis D	Date: 10)/19/2022	\$	SeqNo: 32	297767	Units: mg/K	(g		
Prep Date: 10/18/2022 Analyte	Analysis D	Date: 10 PQL	0/19/2022 SPK value		SeqNo: 32 %REC	297767 LowLimit	Units: mg/K HighLimit	(g %RPD	RPDLimit	Qual
·	,				·		ŭ	•	RPDLimit	Qual
Analyte	Result	PQL			·		ŭ	•	RPDLimit	Qual
Analyte Diesel Range Organics (DRO)	Result ND	PQL 15			·		ŭ	•	RPDLimit	Qual

SPK value SPK Ref Val

0

50.00

5.000

RunNo: 91929

%REC

105

102

SeqNo: 3297768

LowLimit

64.4

21

Units: mg/Kg

127

129

%RPD

RPDLimit

Qual

HighLimit

Qualifiers:

Client ID: LCSS

Diesel Range Organics (DRO)

10/18/2022

Prep Date:

Surr: DNOP

Analyte

- 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210780

24-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: mb-70851 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70851 RunNo: 91849

Prep Date: 10/15/2022 Analysis Date: 10/17/2022 SeqNo: 3293599 Units: mq/Kq

SPK Ref Val %RPD **RPDLimit** Analyte Result **PQL** SPK value %REC LowLimit HighLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 840 1000 83.9 37.7 212

Sample ID: Ics-70851 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70851 RunNo: 91849

Analysis Date: 10/17/2022 Prep Date: 10/15/2022 SeqNo: 3293600 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC I owl imit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 25.00 99.3 72.3 137 5.0

Surr: BFB 1800 1000 185 37.7 212

Sample ID: 2210780-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: BES22-86 2' Batch ID: 70851 RunNo: 91849

Prep Date: 10/15/2022 Analysis Date: 10/17/2022 SeqNo: 3293602 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQI HighLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.65 98.8 70 130 Surr: BFB 1900 986.2 189 37.7 212

Sample ID: 2210780-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Batch ID: 70851 Client ID: BES22-86 2' RunNo: 91849

Prep Date: 10/15/2022 Analysis Date: 10/17/2022 SeqNo: 3293603 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 4.9 93.9 70 130 20 24.63 5.25 Surr: BFB 1800 985.2 186 37.7 212 0 0

Sample ID: Ics-70872 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 70872 RunNo: 91908 Prep Date: Analysis Date: 10/18/2022 SeqNo: 3296480 10/17/2022 Units: mg/Kg Result POI SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 20 5.0 25.00 0 80.3 72.3 137

Surr: BFB 2000 1000 203 37.7 212

Sample ID: mb-70872 TestCode: EPA Method 8015D: Gasoline Range SampType: MBLK

Client ID: **PBS** Batch ID: 70872 RunNo: 91908

Prep Date: 10/17/2022 Analysis Date: 10/18/2022 SeqNo: 3296481 Units: mg/Kg

SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Analyte Result PQL %REC LowLimit Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

2210780 24-Oct-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: mb-70872 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

PBS Client ID: Batch ID: 70872 RunNo: 91908

Prep Date: 10/17/2022 Analysis Date: 10/18/2022 SeqNo: 3296481 Units: mq/Kq

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 980 1000 97.6 37.7 212

Sample ID: 2210780-021ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: WES22-09 1' Batch ID: 70872 RunNo: 91908

Prep Date: 10/17/2022 Analysis Date: 10/18/2022 SeqNo: 3296483 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24.85 0 86.4 70

994.0 Surr: BFB 2100 211 37.7 212

Sample ID: 2210780-021amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: WES22-09 1' Batch ID: 70872 RunNo: 91908

Prep Date: 10/17/2022 Analysis Date: 10/18/2022 SeqNo: 3296484

Units: mg/Kg

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte POI Gasoline Range Organics (GRO) 22 5.0 24.78 87.1 70 130 0.486 20 Surr: BFB 2100 991.1 212 0 0 S 214 37.7

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Estimated value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 26 of 28

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210780

24-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: mb-70851	Samp	уре: МВ	LK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	n ID: 70 8	351	F	RunNo: 9	1849				
Prep Date: 10/15/2022	Analysis [Date: 10	/17/2022	9	SeqNo: 3	293645	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-Bromofluorobenzene	0.92		1.000		92.2	70	130			
0 1 D 1 00 =====				_						

Sample ID: LCS-70851	SampT	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	h ID: 70 8	351	F	RunNo: 9	1849				
Prep Date: 10/15/2022	Analysis D	Date: 10	/17/2022	5	SeqNo: 32	293646	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.8	80	120			
Toluene	0.94	0.050	1.000	0	94.2	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.7	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.1	70	130			

Sample ID: 2210780-002ams	SampT	ype: MS		Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: BES22-87 2'	Batch	1D: 708	351	F	RunNo: 9 1	1849				
Prep Date: 10/15/2022	Analysis D	ate: 10	/17/2022	5	SeqNo: 32	293649	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9804	0	92.1	68.8	120			
Toluene	0.94	0.049	0.9804	0.01249	94.8	73.6	124			
Ethylbenzene	0.95	0.049	0.9804	0	97.1	72.7	129			
Xylenes, Total	2.9	0.098	2.941	0.01849	96.9	75.7	126			
Surr: 4-Bromofluorobenzene	0.93		0.9804		95.3	70	130			

Sample ID: 2210780-002amsd	SampT	ype: MS	D	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: BES22-87 2'	Batcl	n ID: 708	351	F	RunNo: 91	1849				
Prep Date: 10/15/2022	Analysis D	Date: 10	/17/2022	5	SeqNo: 32	293650	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	0.9872	0	95.4	68.8	120	4.22	20	
Toluene	0.98	0.049	0.9872	0.01249	98.4	73.6	124	4.33	20	
Ethylbenzene	1.0	0.049	0.9872	0	102	72.7	129	5.49	20	
Xylenes, Total	3.0	0.099	2.962	0.01849	100	75.7	126	3.94	20	
Surr: 4-Bromofluorobenzene	0.96		0.9872		97.6	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210780**

24-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: Ics-70872	Samp1	Гуре: LC	s	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	h ID: 70 8	372	F	RunNo: 91	1908				
Prep Date: 10/17/2022	Analysis D	Date: 10	/18/2022	9	SeqNo: 32	296544	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	80	120			
Toluene	1.1	0.050	1.000	0	111	80	120			
Ethylbenzene	1.1	0.050	1.000	0	112	80	120			
Xylenes, Total	3.3	0.10	3.000	0	109	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: mb-70872	Samp	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	n ID: 70 8	372	F	RunNo: 9	1908				
Prep Date: 10/17/2022	Analysis [Date: 10	/18/2022	9	SeqNo: 32	296545	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-Bromofluorobenzene	1.1		1.000		107	70	130			

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Re Services,		Work Order Num	ber: 2210780		RcptNo: 1	
Received By: Cheyeni	ne Cason	10/15/2022 8:40:00) AM	Chul		
Completed By: Cheyeni	ne Cason	10/15/2022 9:24:07	AM .	Chel		
	15/2022					
Chain of Custody						
1. Is Chain of Custody com	nplete?		Yes 🗸	No 🗆	Not Present	
2. How was the sample de	livered?		Courier			
Log In						
3. Was an attempt made to	cool the samples	?	Yes 🗸	No 🗆	NA 🗌	
4. Were all samples receive	ed at a temperatur	e of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗆	
5. Sample(s) in proper con	tainer(s)?		Yes 🔽	No 🗌		
6. Sufficient sample volume	e for indicated test	(s)?	Yes 🗸	No 🗌		
7. Are samples (except VO			Yes 🗸	No 🗌		
8. Was preservative added			Yes 🗌	No 🗸	NA 🗆	
9. Received at least 1 vial v	with headspace <1	/4" for AQ VOA?	Yes	No 🗆	NA 🗹	
10. Were any sample contain	iners received bro	ken?	Yes	No 🗹	# of preserved	
11. Does paperwork match to (Note discrepancies on co			Yes 🔽	No 🗆		2 unless noted)
12. Are matrices correctly id	entified on Chain	of Custody?	Yes 🗸	No 🗌	Adjusted?	
13. Is it clear what analyses			Yes 🔽	No 🗌	/	1-11-1
Were all holding times a (If no, notify customer fo			Yes 🗸	No 🗆	Checked by:	n 10/15/22
Special Handling (if a	pplicable)					
15. Was client notified of all	l discrepancies wit	h this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified:		Date	e			
By Whom:		Via:	eMail	Phone Fax	x In Person	
Regarding:						
Client Instructions	s: [
16. Additional remarks:						
17. Cooler Information Cooler No Temp 9 1 1.1	the first figure and the second second second	Seal Intact Seal No Not Present	Seal Date	Signed By		

Chain-of-Custody Record	Turn-Around Time:	me: 2-044	6.6				ENVIDONMENTAL	CALTA
To Cilent: Devon/Vereex	□ Standard	Rush_			ANA	L EIN	ANAI YSTS I ABODATOD	ATODA
mag	Project Name:				- Annanar	a divadilor	Manus ballonvironmental com	
Mailing Address:	PGPGS A	Erites 3	27 CT18 /	4901 H	4901 Hawkins NE		Albuquerque, NM 87109	<u>o</u>
3/7/2	Project #:			Tel. 50	505-345-3975		505-345-4107	S
	71110-322	111117				Analysis		
email or Fax#:	Project Manager:	Ľ		_		[⊅] C	(11	
CAVQC Package: □ Standard □ Level 4 (Full Validation)	1600¢	stallings	560	O / MRG	SMISC	PO ₄ , S(nəsdA\tı	
Accreditation: Az Compliance	Sampler: CD			AO	4	O ⁵ '	uəs	
□ NELAC □ Other	X	Yes	No 🗆	/ 0	3 10			
□ EDD (Type)	# of Coolers: \			ЯЭ	01			
	Cooler Temp(including CF): [-	-071.1 (°C)	TM)GS	£8 \	۲, Ν	-ime	
Date Time Matrix Sample Name	Container Pr	e ,	HEAL NO. (ХЭТВ 108:НЧТ 9Ч 1808	EDB (Ma PAHs b ₎	RCRA 8 Д, F, В 8260 (∨0	92) 0728 00 lstoT	
10113 2:00 SOIT BESZZ-101 4'		v	013	>		>		
2:05 SESZZ-103 Z!	1	-	014			-		
2:10 85527-105 2')	015					
Z.15 BESZZ-1674')	910					
2:20 85522-110 21		0	710					
Z:25 BESZZ-11) Z'		9	018					
z:30 BESZZ-112 2'		0	019					
2:35 BE522-113 21		0	07.0					
2:45 WESZZ-09 1'		0	021					
		8	Com. 10115th.					
Time:	3	Via:	Date Time	Remarks: C	CC: CHANCE		Dixon	
Reli		Via:	Date Time					
Myll you dilum	Com cours		Schola CRUD					

Chain-of-Custody Record	Turn-Around Time: Z-D4y	
Client: Devon / vertex	□ Standard ☑ Rush	ANAL STATE ABODATOR
		AIVALISIS LABORATOR
Mailing Address:	Papas Friegs 27 CTB 1	www.nallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	
Phone #:	22E-01417	Analysis
email or Fax#:	Project Manager:	†C
QA/QC Package:		
		708 708 708
Accreditation: ☐ Az Compliance	Sampler: CD	0 / (0 (1.4))
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1:36 BESZZ-93 Z'	100	
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

October 27, 2022

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210

FAX:

RE: Papas Fritas 27 CTB1 OrderNo.: 2210837

Dear Kent Stallings:

TEL: (505) 350-1336

Hall Environmental Analysis Laboratory received 37 sample(s) on 10/18/2022 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 Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-48 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:00:00 PM

 Lab ID:
 2210837-001
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 1:30:33 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/20/2022 1:30:33 AM
Surr: DNOP	104	21-129	%Rec	1	10/20/2022 1:30:33 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 11:41:00 AM
Surr: BFB	96.4	37.7-212	%Rec	1	10/19/2022 11:41:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 11:41:00 AM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 11:41:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 11:41:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2022 11:41:00 AM
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	10/19/2022 11:41:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/19/2022 10:33:41 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 44

Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-49 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:05:00 PM

 Lab ID:
 2210837-002
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 2:10:54 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/20/2022 2:10:54 AM
Surr: DNOP	89.9	21-129	%Rec	1	10/20/2022 2:10:54 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/19/2022 12:40:00 PM
Surr: BFB	95.3	37.7-212	%Rec	1	10/19/2022 12:40:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/19/2022 12:40:00 PM
Toluene	ND	0.050	mg/Kg	1	10/19/2022 12:40:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/19/2022 12:40:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/19/2022 12:40:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/19/2022 12:40:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/19/2022 10:46:06 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-50 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:10:00 PM

 Lab ID:
 2210837-003
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 2:24:21 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 2:24:21 AM
Surr: DNOP	103	21-129	%Rec	1	10/20/2022 2:24:21 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/19/2022 1:39:00 PM
Surr: BFB	92.3	37.7-212	%Rec	1	10/19/2022 1:39:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/19/2022 1:39:00 PM
Toluene	ND	0.046	mg/Kg	1	10/19/2022 1:39:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/19/2022 1:39:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	10/19/2022 1:39:00 PM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	10/19/2022 1:39:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/19/2022 11:23:19 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-51 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:15:00 PM

 Lab ID:
 2210837-004
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 2:37:41 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/20/2022 2:37:41 AM
Surr: DNOP	105	21-129	%Rec	1	10/20/2022 2:37:41 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 1:58:00 PM
Surr: BFB	91.3	37.7-212	%Rec	1	10/19/2022 1:58:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 1:58:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 1:58:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 1:58:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/19/2022 1:58:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/19/2022 1:58:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 12:25:21 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-52 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:20:00 PM

 Lab ID:
 2210837-005
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 2:51:04 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/20/2022 2:51:04 AM
Surr: DNOP	105	21-129	%Rec	1	10/20/2022 2:51:04 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 2:18:00 PM
Surr: BFB	97.0	37.7-212	%Rec	1	10/19/2022 2:18:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 2:18:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 2:18:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 2:18:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/19/2022 2:18:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/19/2022 2:18:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 12:37:45 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-53 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:25:00 PM

 Lab ID:
 2210837-006
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 3:04:18 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/20/2022 3:04:18 AM
Surr: DNOP	105	21-129	%Rec	1	10/20/2022 3:04:18 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 2:38:00 PM
Surr: BFB	95.2	37.7-212	%Rec	1	10/19/2022 2:38:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 2:38:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 2:38:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 2:38:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2022 2:38:00 PM
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	10/19/2022 2:38:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 12:50:10 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
 - Reporting Limit Page 6 of 44

Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-54 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:30:00 PM

 Lab ID:
 2210837-007
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 3:17:38 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/20/2022 3:17:38 AM
Surr: DNOP	103	21-129	%Rec	1	10/20/2022 3:17:38 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/19/2022 2:57:00 PM
Surr: BFB	96.5	37.7-212	%Rec	1	10/19/2022 2:57:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 2:57:00 PM
Toluene	ND	0.049	mg/Kg	1	10/19/2022 2:57:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/19/2022 2:57:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/19/2022 2:57:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/19/2022 2:57:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 1:02:34 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
 - Reporting Limit Page 7 of 44

Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-55 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:35:00 PM

 Lab ID:
 2210837-008
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 3:30:56 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/20/2022 3:30:56 AM
Surr: DNOP	100	21-129	%Rec	1	10/20/2022 3:30:56 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 3:17:00 PM
Surr: BFB	92.1	37.7-212	%Rec	1	10/19/2022 3:17:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 3:17:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 3:17:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 3:17:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/19/2022 3:17:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/19/2022 3:17:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 1:14:59 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-56 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:40:00 PM

 Lab ID:
 2210837-009
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 3:44:10 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/20/2022 3:44:10 AM
Surr: DNOP	102	21-129	%Rec	1	10/20/2022 3:44:10 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/19/2022 3:37:00 PM
Surr: BFB	98.6	37.7-212	%Rec	1	10/19/2022 3:37:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/19/2022 3:37:00 PM
Toluene	ND	0.046	mg/Kg	1	10/19/2022 3:37:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/19/2022 3:37:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/19/2022 3:37:00 PM
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	10/19/2022 3:37:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 1:27:24 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-57 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:45:00 PM

 Lab ID:
 2210837-010
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 3:57:27 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 3:57:27 AM
Surr: DNOP	102	21-129	%Rec	1	10/20/2022 3:57:27 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/19/2022 3:57:00 PM
Surr: BFB	97.6	37.7-212	%Rec	1	10/19/2022 3:57:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/19/2022 3:57:00 PM
Toluene	ND	0.050	mg/Kg	1	10/19/2022 3:57:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/19/2022 3:57:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/19/2022 3:57:00 PM
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	10/19/2022 3:57:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 1:39:48 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-58 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:50:00 PM

 Lab ID:
 2210837-011
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 4:10:33 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/20/2022 4:10:33 AM
Surr: DNOP	104	21-129	%Rec	1	10/20/2022 4:10:33 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/19/2022 4:36:00 PM
Surr: BFB	90.9	37.7-212	%Rec	1	10/19/2022 4:36:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/19/2022 4:36:00 PM
Toluene	ND	0.047	mg/Kg	1	10/19/2022 4:36:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/19/2022 4:36:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/19/2022 4:36:00 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	10/19/2022 4:36:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 1:52:12 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- L Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-59 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:55:00 PM

 Lab ID:
 2210837-012
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 4:23:50 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/20/2022 4:23:50 AM
Surr: DNOP	105	21-129	%Rec	1	10/20/2022 4:23:50 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/19/2022 4:55:00 PM
Surr: BFB	94.6	37.7-212	%Rec	1	10/19/2022 4:55:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/19/2022 4:55:00 PM
Toluene	ND	0.046	mg/Kg	1	10/19/2022 4:55:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/19/2022 4:55:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/19/2022 4:55:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/19/2022 4:55:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 2:29:24 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-60 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:00:00 PM

 Lab ID:
 2210837-013
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 4:36:56 AM
Motor Oil Range Organics (MRO)	49	47	mg/Kg	1	10/20/2022 4:36:56 AM
Surr: DNOP	104	21-129	%Rec	1	10/20/2022 4:36:56 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 5:15:00 PM
Surr: BFB	94.3	37.7-212	%Rec	1	10/19/2022 5:15:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 5:15:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 5:15:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 5:15:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2022 5:15:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/19/2022 5:15:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 2:41:49 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- L Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-61 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:05:00 PM

 Lab ID:
 2210837-014
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 4:50:05 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/20/2022 4:50:05 AM
Surr: DNOP	105	21-129	%Rec	1	10/20/2022 4:50:05 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 5:34:00 PM
Surr: BFB	92.8	37.7-212	%Rec	1	10/19/2022 5:34:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 5:34:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 5:34:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 5:34:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2022 5:34:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	10/19/2022 5:34:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 2:54:13 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-62 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:10:00 PM

 Lab ID:
 2210837-015
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 5:03:11 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 5:03:11 AM
Surr: DNOP	98.7	21-129	%Rec	1	10/20/2022 5:03:11 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/19/2022 5:54:00 PM
Surr: BFB	97.3	37.7-212	%Rec	1	10/19/2022 5:54:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/19/2022 5:54:00 PM
Toluene	ND	0.046	mg/Kg	1	10/19/2022 5:54:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/19/2022 5:54:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	10/19/2022 5:54:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/19/2022 5:54:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 3:06:37 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-63 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:15:00 PM

 Lab ID:
 2210837-016
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 5:16:14 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/20/2022 5:16:14 AM
Surr: DNOP	102	21-129	%Rec	1	10/20/2022 5:16:14 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/19/2022 6:14:00 PM
Surr: BFB	92.3	37.7-212	%Rec	1	10/19/2022 6:14:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 6:14:00 PM
Toluene	ND	0.049	mg/Kg	1	10/19/2022 6:14:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/19/2022 6:14:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/19/2022 6:14:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/19/2022 6:14:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 3:19:02 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-64 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:20:00 PM

 Lab ID:
 2210837-017
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 5:29:29 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 5:29:29 AM
Surr: DNOP	106	21-129	%Rec	1	10/20/2022 5:29:29 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/19/2022 6:34:00 PM
Surr: BFB	95.8	37.7-212	%Rec	1	10/19/2022 6:34:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 6:34:00 PM
Toluene	ND	0.047	mg/Kg	1	10/19/2022 6:34:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/19/2022 6:34:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/19/2022 6:34:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/19/2022 6:34:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 3:31:26 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-66 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:25:00 PM

 Lab ID:
 2210837-018
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 5:42:29 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/20/2022 5:42:29 AM
Surr: DNOP	105	21-129	%Rec	1	10/20/2022 5:42:29 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/19/2022 6:53:00 PM
Surr: BFB	97.8	37.7-212	%Rec	1	10/19/2022 6:53:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/19/2022 6:53:00 PM
Toluene	ND	0.049	mg/Kg	1	10/19/2022 6:53:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/19/2022 6:53:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/19/2022 6:53:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/19/2022 6:53:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 3:43:50 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-67 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:30:00 PM

 Lab ID:
 2210837-019
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 5:55:31 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/20/2022 5:55:31 AM
Surr: DNOP	93.0	21-129	%Rec	1	10/20/2022 5:55:31 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 7:13:00 PM
Surr: BFB	97.4	37.7-212	%Rec	1	10/19/2022 7:13:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 7:13:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 7:13:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 7:13:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2022 7:13:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/19/2022 7:13:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 3:56:15 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-68 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:35:00 PM

 Lab ID:
 2210837-020
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 6:08:17 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/20/2022 6:08:17 AM
Surr: DNOP	93.0	21-129	%Rec	1	10/20/2022 6:08:17 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/19/2022 7:33:00 PM
Surr: BFB	87.6	37.7-212	%Rec	1	10/19/2022 7:33:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/19/2022 7:33:00 PM
Toluene	ND	0.046	mg/Kg	1	10/19/2022 7:33:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/19/2022 7:33:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/19/2022 7:33:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	10/19/2022 7:33:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	59	mg/Kg	20	10/20/2022 4:08:39 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-69 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:40:00 PM

 Lab ID:
 2210837-021
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE ORG	EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 12:54:25 AM	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 12:54:25 AM	
Surr: DNOP	95.7	21-129	%Rec	1	10/20/2022 12:54:25 AM	
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/19/2022 9:30:00 PM	
Surr: BFB	92.3	37.7-212	%Rec	1	10/19/2022 9:30:00 PM	
EPA METHOD 8021B: VOLATILES					Analyst: CCM	
Benzene	ND	0.023	mg/Kg	1	10/19/2022 9:30:00 PM	
Toluene	ND	0.047	mg/Kg	1	10/19/2022 9:30:00 PM	
Ethylbenzene	ND	0.047	mg/Kg	1	10/19/2022 9:30:00 PM	
Xylenes, Total	ND	0.094	mg/Kg	1	10/19/2022 9:30:00 PM	
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/19/2022 9:30:00 PM	
EPA METHOD 300.0: ANIONS					Analyst: JTT	
Chloride	ND	61	mg/Kg	20	10/20/2022 9:14:42 AM	

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-70 2'

Project: Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:00:00 AM

 Lab ID: 2210837-022
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 2:05:52 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/20/2022 2:05:52 AM
Surr: DNOP	96.8	21-129	%Rec	1	10/20/2022 2:05:52 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 10:29:00 PM
Surr: BFB	96.9	37.7-212	%Rec	1	10/19/2022 10:29:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 10:29:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 10:29:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 10:29:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2022 10:29:00 PM
Surr: 4-Bromofluorobenzene	112	70-130	%Rec	1	10/19/2022 10:29:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 9:51:44 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-71 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:05:00 AM

 Lab ID:
 2210837-023
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: mb				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 2:29:39 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/20/2022 2:29:39 AM
Surr: DNOP	91.4	21-129	%Rec	1	10/20/2022 2:29:39 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/19/2022 11:28:00 PM
Surr: BFB	94.4	37.7-212	%Rec	1	10/19/2022 11:28:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/19/2022 11:28:00 PM
Toluene	ND	0.050	mg/Kg	1	10/19/2022 11:28:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/19/2022 11:28:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/19/2022 11:28:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/19/2022 11:28:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 10:53:25 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-72 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:10:00 AM

 Lab ID:
 2210837-024
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: mb				
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/20/2022 2:53:25 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/20/2022 2:53:25 AM
Surr: DNOP	97.0	21-129	%Rec	1	10/20/2022 2:53:25 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/19/2022 11:48:00 PM
Surr: BFB	93.6	37.7-212	%Rec	1	10/19/2022 11:48:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/19/2022 11:48:00 PM
Toluene	ND	0.047	mg/Kg	1	10/19/2022 11:48:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/19/2022 11:48:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/19/2022 11:48:00 PM
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	10/19/2022 11:48:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 11:05:46 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-73 2'

Project: Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:15:00 AM

 Lab ID: 2210837-025
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OI	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 3:17:08 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 3:17:08 AM
Surr: DNOP	97.2	21-129	%Rec	1	10/20/2022 3:17:08 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/20/2022 12:08:00 AM
Surr: BFB	103	37.7-212	%Rec	1	10/20/2022 12:08:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 12:08:00 AM
Toluene	ND	0.047	mg/Kg	1	10/20/2022 12:08:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/20/2022 12:08:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/20/2022 12:08:00 AM
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	10/20/2022 12:08:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 11:18:07 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-74 2'

Project: Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:20:00 AM

 Lab ID: 2210837-026
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 3:40:51 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/20/2022 3:40:51 AM
Surr: DNOP	97.9	21-129	%Rec	1	10/20/2022 3:40:51 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/20/2022 12:27:00 AM
Surr: BFB	92.2	37.7-212	%Rec	1	10/20/2022 12:27:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 12:27:00 AM
Toluene	ND	0.048	mg/Kg	1	10/20/2022 12:27:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/20/2022 12:27:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/20/2022 12:27:00 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	10/20/2022 12:27:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 11:30:28 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-75 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:25:00 AM

 Lab ID:
 2210837-027
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 4:04:33 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/20/2022 4:04:33 AM
Surr: DNOP	99.3	21-129	%Rec	1	10/20/2022 4:04:33 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/20/2022 12:47:00 AM
Surr: BFB	94.7	37.7-212	%Rec	1	10/20/2022 12:47:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/20/2022 12:47:00 AM
Toluene	ND	0.047	mg/Kg	1	10/20/2022 12:47:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/20/2022 12:47:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	10/20/2022 12:47:00 AM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/20/2022 12:47:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 11:42:48 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-76 2'

Project: Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:30:00 AM

 Lab ID: 2210837-028
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Analyst: mb	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 4:28:16 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 4:28:16 AM
Surr: DNOP	96.5	21-129	%Rec	1	10/20/2022 4:28:16 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/20/2022 1:07:00 AM
Surr: BFB	94.6	37.7-212	%Rec	1	10/20/2022 1:07:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 1:07:00 AM
Toluene	ND	0.047	mg/Kg	1	10/20/2022 1:07:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/20/2022 1:07:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/20/2022 1:07:00 AM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	10/20/2022 1:07:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 11:55:08 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-77 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:35:00 AM

 Lab ID:
 2210837-029
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/20/2022 4:51:55 AM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	10/20/2022 4:51:55 AM
Surr: DNOP	96.9	21-129	%Rec	1	10/20/2022 4:51:55 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/20/2022 1:26:00 AM
Surr: BFB	92.4	37.7-212	%Rec	1	10/20/2022 1:26:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 1:26:00 AM
Toluene	ND	0.049	mg/Kg	1	10/20/2022 1:26:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/20/2022 1:26:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	10/20/2022 1:26:00 AM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/20/2022 1:26:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 12:07:29 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-78 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:40:00 AM

 Lab ID:
 2210837-030
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 5:15:31 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/20/2022 5:15:31 AM
Surr: DNOP	100	21-129	%Rec	1	10/20/2022 5:15:31 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/20/2022 1:46:00 AM
Surr: BFB	101	37.7-212	%Rec	1	10/20/2022 1:46:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 1:46:00 AM
Toluene	ND	0.047	mg/Kg	1	10/20/2022 1:46:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/20/2022 1:46:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/20/2022 1:46:00 AM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/20/2022 1:46:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 12:19:50 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-79 2'

Project: Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:45:00 AM

 Lab ID: 2210837-031
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/20/2022 5:39:09 AM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	10/20/2022 5:39:09 AM
Surr: DNOP	100	21-129	%Rec	1	10/20/2022 5:39:09 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/20/2022 2:25:00 AM
Surr: BFB	92.6	37.7-212	%Rec	1	10/20/2022 2:25:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/20/2022 2:25:00 AM
Toluene	ND	0.047	mg/Kg	1	10/20/2022 2:25:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/20/2022 2:25:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	10/20/2022 2:25:00 AM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	10/20/2022 2:25:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 12:32:11 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-80 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:50:00 AM

 Lab ID:
 2210837-032
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 6:02:46 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 6:02:46 AM
Surr: DNOP	95.6	21-129	%Rec	1	10/20/2022 6:02:46 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/20/2022 2:45:00 AM
Surr: BFB	95.3	37.7-212	%Rec	1	10/20/2022 2:45:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/20/2022 2:45:00 AM
Toluene	ND	0.046	mg/Kg	1	10/20/2022 2:45:00 AM
Ethylbenzene	ND	0.046	mg/Kg	1	10/20/2022 2:45:00 AM
Xylenes, Total	ND	0.092	mg/Kg	1	10/20/2022 2:45:00 AM
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	10/20/2022 2:45:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 12:44:32 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-81 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:55:00 AM

 Lab ID:
 2210837-033
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 6:26:21 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/20/2022 6:26:21 AM
Surr: DNOP	100	21-129	%Rec	1	10/20/2022 6:26:21 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/20/2022 3:05:00 AM
Surr: BFB	97.7	37.7-212	%Rec	1	10/20/2022 3:05:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 3:05:00 AM
Toluene	ND	0.048	mg/Kg	1	10/20/2022 3:05:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/20/2022 3:05:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/20/2022 3:05:00 AM
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	10/20/2022 3:05:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	61	mg/Kg	20	10/20/2022 1:21:33 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-82 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 10:00:00 AM

 Lab ID:
 2210837-034
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/20/2022 6:49:56 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/20/2022 6:49:56 AM
Surr: DNOP	92.1	21-129	%Rec	1	10/20/2022 6:49:56 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/20/2022 3:24:00 AM
Surr: BFB	95.0	37.7-212	%Rec	1	10/20/2022 3:24:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 3:24:00 AM
Toluene	ND	0.048	mg/Kg	1	10/20/2022 3:24:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/20/2022 3:24:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/20/2022 3:24:00 AM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	10/20/2022 3:24:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 1:33:53 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-83 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 10:05:00 AM

 Lab ID:
 2210837-035
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 7:13:29 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/20/2022 7:13:29 AM
Surr: DNOP	100	21-129	%Rec	1	10/20/2022 7:13:29 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/20/2022 3:44:00 AM
Surr: BFB	94.1	37.7-212	%Rec	1	10/20/2022 3:44:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 3:44:00 AM
Toluene	ND	0.049	mg/Kg	1	10/20/2022 3:44:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/20/2022 3:44:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	10/20/2022 3:44:00 AM
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	10/20/2022 3:44:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 1:46:13 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-84 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 10:10:00 AM

 Lab ID:
 2210837-036
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 7:37:05 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 7:37:05 AM
Surr: DNOP	101	21-129	%Rec	1	10/20/2022 7:37:05 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/20/2022 4:04:00 AM
Surr: BFB	94.2	37.7-212	%Rec	1	10/20/2022 4:04:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 4:04:00 AM
Toluene	ND	0.048	mg/Kg	1	10/20/2022 4:04:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/20/2022 4:04:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	10/20/2022 4:04:00 AM
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	10/20/2022 4:04:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 1:58:34 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-85 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 10:15:00 AM

 Lab ID:
 2210837-037
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 8:00:40 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 8:00:40 AM
Surr: DNOP	102	21-129	%Rec	1	10/20/2022 8:00:40 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/20/2022 4:23:00 AM
Surr: BFB	95.8	37.7-212	%Rec	1	10/20/2022 4:23:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/20/2022 4:23:00 AM
Toluene	ND	0.047	mg/Kg	1	10/20/2022 4:23:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/20/2022 4:23:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	10/20/2022 4:23:00 AM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/20/2022 4:23:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	59	mg/Kg	20	10/20/2022 2:10:55 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210837 27-Oct-22**

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: MB-70935 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70935 RunNo: 91941

Prep Date: 10/19/2022 Analysis Date: 10/19/2022 SeqNo: 3298304 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: MB-70945 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70945 RunNo: 91958

Prep Date: 10/20/2022 Analysis Date: 10/20/2022 SeqNo: 3299494 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-70945 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70945 RunNo: 91958

Prep Date: 10/20/2022 Analysis Date: 10/20/2022 SeqNo: 3299495 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.3 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

49

5.3

15

49.41

4.941

WO#: **2210837**

27-Oct-22

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: MB-70928	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 70928	RunNo: 91929						
Prep Date: 10/19/2022	Analysis Date: 10/20/2022	SeqNo: 3297826						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual				
Diesel Range Organics (DRO)	ND 15							
Motor Oil Range Organics (MRO)	ND 50							
Surr: DNOP	9.5 10.00	94.9 21	129					
Sample ID: LCS-70928	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 70928	RunNo: 91929						
Prep Date: 10/19/2022	Analysis Date: 10/20/2022	SeqNo: 3297827	Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual				
Diesel Range Organics (DRO)	48 15 50.00	0 95.3 64.4	127					
Surr: DNOP	5.1 5.000	103 21	129					
Sample ID: 2210837-001AMS	SampType: MS	TestCode: EPA Method	8015M/D: Diesel Range	e Organics				
Client ID: BES22-48 2.5'	Batch ID: 70928	RunNo: 91929						
Prep Date: 10/19/2022	Analysis Date: 10/20/2022	SeqNo: 3297829	Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual				

Sample ID: 2210837-001AMS	D SampT	уре: М \$	SD	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BES22-48 2.5'	Batch	ID: 70	928	F	RunNo: 9	1929					
Prep Date: 10/19/2022	Analysis D	ate: 10)/20/2022	SeqNo: 3297830 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	46	14	46.77	0	97.7	36.1	154	7.28	33.9		
Surr: DNOP	5.1		4.677		109	21	129	0	0		

0

99.5

108

36.1

21

154

129

Sample ID: MB-70929	SampT	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	n ID: 70 9	929	F	RunNo: 9 ′	1900				
Prep Date: 10/19/2022	Analysis D	ate: 10	0/20/2022	8	SeqNo: 32	298010	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		89.9	21	129			

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

Diesel Range Organics (DRO)

Surr: DNOP

- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210837 27-Oct-22**

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: LCS-70929 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 70929 RunNo: 91900

Prep Date: 10/19/2022 Analysis Date: 10/20/2022 SeqNo: 3298011 Units: mg/Kg

Analyte SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 46 15 92.3 64.4 50.00 127 Surr: DNOP 4.6 5.000 92.4 21 129

Sample ID: 2210837-021AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BES22-69 2.5'** Batch ID: **70929** RunNo: **91900**

Prep Date: 10/19/2022 Analysis Date: 10/20/2022 SeqNo: 3298013 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Diesel Range Organics (DRO)
 47
 14
 46.51
 0
 100
 36.1
 154

 Surr: DNOP
 4.8
 4.651
 102
 21
 129

Sample ID: 2210837-021AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BES22-69 2.5'** Batch ID: **70929** RunNo: **91900**

Prep Date: 10/19/2022 Analysis Date: 10/20/2022 SeqNo: 3298014 Units: mg/Kg

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte **PQL** Diesel Range Organics (DRO) 45 14 0 99.1 36.1 2.82 33.9 45.62 154 Surr: DNOP 4.6 4.562 101 129 21 0 0

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210837**

27-Oct-22

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: Ics-70896 SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
------------------------------------	--------------------------------------------

Client ID: LCSS Batch ID: 70896 RunNo: 91932

Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SeqNo: 3298039 Units: mg/Kg

Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 5.0 25.00 Gasoline Range Organics (GRO) 23 91.3 72.3 137 Surr: BFB 2000 1000 202 37.7 212

Sample ID: mb-70896 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **70896** RunNo: **91932**

Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SeqNo: 3298040 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
 930
 1000
 92.6
 37.7
 212

Sample ID: 2210837-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BES22-48 2.5'** Batch ID: **70896** RunNo: **91932**

Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SeqNo: 3298042 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual 24 70 Gasoline Range Organics (GRO) 48 23.88 99.1 130 S Surr: BFB 2000 955.1 214 37.7 212

Sample ID: 2210837-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range
Client ID: BES22-48 2.5' Batch ID: 70896 RunNo: 91932

Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SegNo: 3298043 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 4.8 23.90 n 70 130 20 105 6.24 Surr: BFB 2100 956.0 217 37.7 212 0 S

Sample ID: Ics-70897 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 70897 RunNo: 91932 Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SeqNo: 3298063 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Gasoline Range Organics (GRO) 23 5.0 25.00 0 90.4 72.3 137 Surr: BFB 2100 1000 205 37 7 212

Sample ID: MB-70897 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **70897** RunNo: **91932**

Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SeqNo: 3298064 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210837 27-Oct-22**

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: MB-70897 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70897 RunNo: 91932

Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SeqNo: 3298064 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 920 1000 92.2 37.7 212

Sample ID: 2210837-021ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: BES22-69 2.5' Batch ID: 70897 RunNo: 91932

Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SeqNo: 3298066 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 23
 4.7
 23.56
 0
 97.1
 70
 130

 Surr: BFB
 2100
 942.5
 220
 37.7
 212
 S

Sample ID: 2210837-021amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BES22-69 2.5' Batch ID: 70897 RunNo: 91932

Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SeqNo: 3298067 Units: mg/Kg

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte **PQL** Gasoline Range Organics (GRO) 24 0 103 70 5.17 20 47 23.50 130 Surr: BFB 2000 212 S 939.8 214 37.7 0 0

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210837**

27-Oct-22

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: Ics-70896	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		•
Client ID: LCSS	Batcl	n ID: 70 8	896	F	RunNo: 9	1932				
Prep Date: 10/18/2022	Analysis D	Date: 10)/19/2022	SeqNo: 3298093			Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	116	80	120			
Toluene	1.1	0.050	1.000	0	115	80	120			
Ethylbenzene	1.1	0.050	1.000	0	115	80	120			
Xylenes, Total	3.4	0.10	3.000	0 113 80			120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	70	130			

Sample ID: mb-70896 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 70896 RunNo: 91932 Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SeqNo: 3298094 Units: mg/Kg %RPD **RPDLimit PQL** SPK value SPK Ref Val %REC LowLimit HighLimit Analyte Result Qual Benzene ND 0.025 ND 0.050 Toluene Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.000 107 70 130 1.1

Sample ID: 2210837-002ams	SampT	ype: MS	5	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BES22-49 2.5'	Batch	1D: 70 8	396	F	RunNo: 9	1932				
Prep Date: 10/18/2022	Analysis D	ate: 10	/19/2022	8	SeqNo: 3	298097	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9950	0	125	68.8	120			S
Toluene	1.3	0.050	0.9950	0	127	73.6	124			S
Ethylbenzene	1.3	0.050	0.9950	0	126	72.7	129			
Xylenes, Total	3.7	0.10	2.985	0	124	75.7	126			
Surr: 4-Bromofluorobenzene	1.1		0.9950		106	70	130			

Sample ID: 2210837-002amsd	SampT	ype: MS	SD.	Tes	tCode: El	PA Method	8021B: Volat	iles				
Client ID: BES22-49 2.5'	Batch	ID: 70 8	396	F	RunNo: 9	1932						
Prep Date: 10/18/2022	Analysis D	ate: 10	/19/2022	8	SeqNo: 3	298098	Units: mg/K	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.2	0.025	0.9872	0	125	68.8	120	1.02	20	S		
Toluene	1.2	0.049	0.9872	0	125	73.6	124	2.73	20	S		
Ethylbenzene	1.2	0.049	0.9872	0	126	72.7	129	1.16	20			
Xylenes, Total	3.7	0.099	2.962	0	123	75.7	126	1.42	20			
Surr: 4-Bromofluorobenzene	1.0		0.9872		105	70	130	0	0			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210837**

27-Oct-22

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: Ics-70897	SampT	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	h ID: 70 8	897	F	RunNo: 9	1932				
Prep Date: 10/18/2022	Analysis D	Date: 10	/19/2022	SeqNo: 3298117			Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	120	80	120			S
Toluene	1.2	0.050	1.000	0	120	80	120			
Ethylbenzene	1.2	0.050	1.000	0	119	80	120			
Xylenes, Total	3.5	0.10	3.000	0	118	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	70	130			

Sample ID: MB-70897	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 70	897	R	tunNo: 9	1932				
Prep Date: 10/18/2022	Analysis D	ate: 10)/19/2022	S	SeqNo: 3	298118	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-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: 2210837-022ams	SampT	уре: М\$	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BES22-70 2'	Batch	n ID: 70 8	897	F	RunNo: 9	1932				
Prep Date: 10/18/2022	Analysis D	oate: 10	/19/2022	SeqNo: 3298121			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.3	0.024	0.9690	0	129	68.8	120			S
Toluene	1.3	0.048	0.9690	0	131	73.6	124			S
Ethylbenzene	1.3	0.048	0.9690	0	129	72.7	129			S
Xylenes, Total	3.7	0.097	2.907	0 128 75.7			126			S
Surr: 4-Bromofluorobenzene	1.1		0.9690		109	70	130			

Sample ID: 2210837-022amsd	SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles			
Client ID: BES22-70 2'	Batch	ID: 70 8	897	F	RunNo: 9	1932					
Prep Date: 10/18/2022	Analysis D	ate: 10	/19/2022	8	SeqNo: 3	298122	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.3	0.024	0.9560	0	134	68.8	120	2.49	20	S	
Toluene	1.3	0.048	0.9560	0	135	73.6	124	2.09	20	S	
Ethylbenzene	1.3	0.048	0.9560	0	135	72.7	129	3.31	20	S	
Xylenes, Total	3.8	0.096	2.868	0	134	75.7	126	2.76	20	S	
Surr: 4-Bromofluorobenzene	1.0		0.9560		105	70	130	0	0		

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Devon Energy	Work Order Num	ber: 2210837		RcptNo: 1	
Received By: Juan Rojas	10/18/2022 7:30:00) AM	Hansy		
Completed By: Sean Livingston	10/18/2022 8:07:11	AM	Juan and	m = /	
Reviewed By: JN 10118/2	2			751	
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In					
3. Was an attempt made to cool the sample	es?	Yes 🗸	No 🗌	NA 🗆	
4. Were all samples received at a temperat	ure of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗸	No 🗌		
Sufficient sample volume for indicated ter	st(s)?	Yes 🗸	No 🗆		
7. Are samples (except VOA and ONG) pro		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 br	oken?	Yes	No 🗸	# of preserved	/
11. Does paperwork match bottle labels?		Yes 🔽	No 🗆	bottles checked for pH:	2
(Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain	of Custody?	Yes 🗸	No 🗆	Adjusted?	2 unless noted)
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:	10.18.73
Special Handling (if applicable)					
15. Was client notified of all discrepancies w	ith this order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date				
By Whom:	Via:	eMail	Phone Fax	☐ In Person	
Regarding:					
Client Instructions: 16. Additional remarks:					
17. Cooler Information Cooler No Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By	1	
1 1.0 Good	Gear Illiact Sear NO	Seal Date	Signed by		

Received by OCD: 12/2/2022 2:04:46 P Page 270 of 380 **ANALYSIS LABORATORY** HALL ENVIRONMENTAL If necessary, samples submitted to Hall Environmental may be subcontracted to offer accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 www.hallenvironmental.com CC: Chance Dixon Analysis Request Total Coliform (Present/Absent) DIRCF RIN DEVON (AOV-ima2) 07S8 (AOV) 09S8 Cire. NO2, PO4, SO4 NO3' Br, Tel. 505-345-3975 RCRA 8 Metals 2 SMI20728 10 0188 yd 2HA9 EDB (Method 504.1) 8081 Pesticides/8082 PCB's Remarks: SD(GRO / DRO / MRO) TMB's (8021) 10/18/12 7/3C 00 0 40.121.0 (°C) Politic | 115 £ 280122 200 904 300 500 500 200 00 500 Time FN. 495 27 CTB 80% 200 HEAL No. 210 10 **%**□ 2-004 Kent scallings Rush
 Ru round Preservative 11410-322 Cooler Temp(including CF): 700 T-Yes Turn-Around Time: Project Manager: SOCION Project Name: Sampler: Gの □ Standard # of Coolers: Type and # Container Received by: Project #: 204 Received by: On Ice: ☐ Level 4 (Full Validation) NS NS 100 2.5 Chain-of-Custody Record 2.5 10/14/12:00/50:11 8 ESZZ-48 Sample Name BES22-49 BESS-59 85525-50 85-22508 8 5522-55 BE522-53 BESC - 56 BES25-57 BES22-54 BES22-52 B 822-51 denn DRVON / VECTEX △ Az Compliance 111 Relinquished by: Relinquished by: Ossan □ Other Matrix Sugaring Address: 12:15 2:40 12:55 12:05 01:21 12.20 2.25 12: 35 12:30 2:45 12:50 QA/QC Package: ☐ EDD (Type) Time 7 email or Fax#: Accreditation: 11/11/190 Time: Time: ≥ Standard □ NELAC Phone #: Client: Date 011 Date:

Page 271 of 380 Received by OCD: 12/2/2022 2:04:46 PM **ANALYSIS LABORATORY** HALL ENVIRONMENTAL If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 CC: Chance Dixon Direct Bill Davon www.hallenvironmental.com **Analysis Request** Total Coliform (Present/Absent) (AOV-ima2) 07S8 (AOV) 09S8 Br, NO₃, NO2, PO4, SO4 Tel. 505-345-3975 RCRA 8 Metals PAHs by 8310 or 8270SIMS EDB (Method 504.1) 8081 Pesticides/8082 PCB's Remarks: ED(GRO / DRO / MRO) TMB's (8021) OWIET 10/18/22 7/32 ပ္ပ 15 Time HEAL No. 510 Papas Fritas 27 CTB1 510 かづ 250 0 2 520 19/11/22 000 510 020 120 220 510 **%**□ 100-2 Kent Stanings Rush Preservative Cooler Temp(including CF): 11/10-322 ICC □ Yes Turn-Around Time: Via: Project Manager: Project Name: Sampler: C() almer □ Standard # of Coolers: Type and # Received by: Container Project #: 462 Received by On Ice: □ Level 4 (Full Validation) 115 N.S 50 2.5 2.5 NS N Chain-of-Custody Record N N B 5525-68 Sample Name BESCE-60 BES22-67 BES22-70 13-22528 BES25-63 BES22-64 8552-66 BESZ-69 BESSS-71 8 ES 22- 7/2 BES22-61 □/Az Compliance DEVOOR VECTER F:11 alle Relinquished by: Relinquished by: □ Other 1,0505:1/1/10 00 Matrix 1:05 Mailing Address: 01:5 21:15 1:30 1:26 1.35 00:6 50:8 1:25 1:46 QA/QC Package: 1:10 ☐ EDD (Type) Time 98 email or Fax#: Accreditation: Time: ≥ Standard □ NELAC Phone #: 10119 Date Date:

Page 272 of 380 Received by OCD: 12/2/2022 2:04:46 PN ANALYSIS LABORATORY HALL ENVIRONMENTAL 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 CC: CHANGE DIXON www.hallenvironmental.com Direct 8:11 DONON **Analysis Request** Total Coliform (Present/Absent) (AOV-ima2) 07S8 (AOV) 09S8 Bt' NO3' CI,9E NO2, PO4, SO4 Tel. 505-345-3975 RCRA 8 Metals PAHs by 8310 or 8270SIMS EDB (Method 504.1) 8081 Pesticides/8082 PCB's Remarks: (ORM / ORO / ORO) d2108:H9T MTBE / TMB's (8021) **STEX** 15 5581101 version (S) 11/22 (115 03C Papas Fritas 27 CT81 HEAL No. 035 277 000 550 120 420 250 320 420 022 120 lo Date Date % □ KEUR Stallings 1-DG4 Rush Preservative Cooler Temp(including CF): 226-01417 □ Yes Turn-Around Time: Type Via: Project Manager: Sampler: CO Project Name: □ Standard Type and # # of Coolers: Received by: Container 402 Project #: Received by On Ice: □ Level 4 (Full Validation) 23 Chain-of-Custody Record N N N N N N BES22-84 Sample Name BES22-73 BES 22-75 BES22-78 BES22-82 A 5522-83 B ES22-76 BES22-74 BES22-79 BESS2-80 BES 22-81 BES 22-77 □ Az Compliance Divon / Vertex Relinquished by: 11.15 Relinquished by: am □ other 100m Matrix Address: 54.6 9116 05:00 10:00 20:01 10.10 QA/QC Package: 25.6 ☐ EDD (Type) 190 email or Fax#: Accreditation: Time 15 Time: Time: **Standard** □ NELAC Phone #: PINU 10117 Date Date:

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

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

October 28, 2022

Kent Stallings Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX

RE: Papas Fritas 27 CTB1 OrderNo.: 2210A33

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 20 sample(s) on 10/20/2022 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 Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-41 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 8:30:00 AM

 Lab ID:
 2210A33-001
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/24/2022 2:40:08 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/24/2022 2:40:08 PM
Surr: DNOP	98.3	21-129	%Rec	1	10/24/2022 2:40:08 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/21/2022 12:48:41 PM
Surr: BFB	93.9	37.7-212	%Rec	1	10/21/2022 12:48:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/21/2022 12:48:41 PM
Toluene	ND	0.050	mg/Kg	1	10/21/2022 12:48:41 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/21/2022 12:48:41 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/21/2022 12:48:41 PM
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	1	10/21/2022 12:48:41 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/23/2022 10:32:12 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 25

Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-42 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 8:35:00 AM

 Lab ID:
 2210A33-002
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 2:53:37 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/24/2022 2:53:37 PM
Surr: DNOP	101	21-129	%Rec	1	10/24/2022 2:53:37 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/21/2022 3:09:43 PM
Surr: BFB	94.1	37.7-212	%Rec	1	10/21/2022 3:09:43 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 3:09:43 PM
Toluene	ND	0.047	mg/Kg	1	10/21/2022 3:09:43 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/21/2022 3:09:43 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/21/2022 3:09:43 PM
Surr: 4-Bromofluorobenzene	98.8	70-130	%Rec	1	10/21/2022 3:09:43 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/23/2022 10:44:37 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-44 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 8:40:00 AM

 Lab ID:
 2210A33-003
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 3:07:08 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/24/2022 3:07:08 PM
Surr: DNOP	102	21-129	%Rec	1	10/24/2022 3:07:08 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/21/2022 4:20:13 PM
Surr: BFB	91.3	37.7-212	%Rec	1	10/21/2022 4:20:13 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 4:20:13 PM
Toluene	ND	0.047	mg/Kg	1	10/21/2022 4:20:13 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/21/2022 4:20:13 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/21/2022 4:20:13 PM
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	10/21/2022 4:20:13 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	61	mg/Kg	20	10/23/2022 10:57:02 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-08 1

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 8:45:00 AM

 Lab ID:
 2210A33-004
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 3:20:49 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/24/2022 3:20:49 PM
Surr: DNOP	102	21-129	%Rec	1	10/24/2022 3:20:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/21/2022 4:43:41 PM
Surr: BFB	91.1	37.7-212	%Rec	1	10/21/2022 4:43:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/21/2022 4:43:41 PM
Toluene	ND	0.047	mg/Kg	1	10/21/2022 4:43:41 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/21/2022 4:43:41 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/21/2022 4:43:41 PM
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	10/21/2022 4:43:41 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/23/2022 11:09:26 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-28 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 9:15:00 AM

 Lab ID:
 2210A33-005
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/24/2022 12:09:17 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/24/2022 12:09:17 PM
Surr: DNOP	99.3	21-129	%Rec	1	10/24/2022 12:09:17 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/21/2022 5:07:03 PM
Surr: BFB	93.0	37.7-212	%Rec	1	10/21/2022 5:07:03 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/21/2022 5:07:03 PM
Toluene	ND	0.046	mg/Kg	1	10/21/2022 5:07:03 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/21/2022 5:07:03 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/21/2022 5:07:03 PM
Surr: 4-Bromofluorobenzene	98.3	70-130	%Rec	1	10/21/2022 5:07:03 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/23/2022 11:21:50 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-29 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 9:20:00 AM

 Lab ID:
 2210A33-006
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/24/2022 12:33:36 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/24/2022 12:33:36 PM
Surr: DNOP	100	21-129	%Rec	1	10/24/2022 12:33:36 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/21/2022 5:30:34 PM
Surr: BFB	92.9	37.7-212	%Rec	1	10/21/2022 5:30:34 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/21/2022 5:30:34 PM
Toluene	ND	0.046	mg/Kg	1	10/21/2022 5:30:34 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/21/2022 5:30:34 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/21/2022 5:30:34 PM
Surr: 4-Bromofluorobenzene	98.3	70-130	%Rec	1	10/21/2022 5:30:34 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	220	60	mg/Kg	20	10/23/2022 12:24:01 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-30 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 9:25:00 AM

 Lab ID:
 2210A33-007
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/24/2022 12:57:51 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/24/2022 12:57:51 PM
Surr: DNOP	103	21-129	%Rec	1	10/24/2022 12:57:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/21/2022 5:54:01 PM
Surr: BFB	89.3	37.7-212	%Rec	1	10/21/2022 5:54:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 5:54:01 PM
Toluene	ND	0.049	mg/Kg	1	10/21/2022 5:54:01 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/21/2022 5:54:01 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/21/2022 5:54:01 PM
Surr: 4-Bromofluorobenzene	94.6	70-130	%Rec	1	10/21/2022 5:54:01 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	1600	60	mg/Kg	20	10/23/2022 1:01:15 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-31 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 9:30:00 AM

 Lab ID:
 2210A33-008
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/24/2022 1:22:10 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/24/2022 1:22:10 PM
Surr: DNOP	107	21-129	%Rec	1	10/24/2022 1:22:10 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/21/2022 6:17:32 PM
Surr: BFB	90.6	37.7-212	%Rec	1	10/21/2022 6:17:32 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 6:17:32 PM
Toluene	ND	0.049	mg/Kg	1	10/21/2022 6:17:32 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/21/2022 6:17:32 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/21/2022 6:17:32 PM
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	10/21/2022 6:17:32 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	850	60	mg/Kg	20	10/23/2022 1:38:29 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-11 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 9:35:00 AM

 Lab ID:
 2210A33-009
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 1:46:20 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/24/2022 1:46:20 PM
Surr: DNOP	91.1	21-129	%Rec	1	10/24/2022 1:46:20 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/21/2022 6:41:13 PM
Surr: BFB	87.8	37.7-212	%Rec	1	10/21/2022 6:41:13 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 6:41:13 PM
Toluene	ND	0.049	mg/Kg	1	10/21/2022 6:41:13 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/21/2022 6:41:13 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/21/2022 6:41:13 PM
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	10/21/2022 6:41:13 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	120	60	mg/Kg	20	10/23/2022 1:50:54 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-15 1'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 9:40:00 AM

 Lab ID:
 2210A33-010
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/24/2022 2:10:37 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/24/2022 2:10:37 PM
Surr: DNOP	97.3	21-129	%Rec	1	10/24/2022 2:10:37 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/21/2022 7:04:41 PM
Surr: BFB	93.5	37.7-212	%Rec	1	10/21/2022 7:04:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/21/2022 7:04:41 PM
Toluene	ND	0.049	mg/Kg	1	10/21/2022 7:04:41 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/21/2022 7:04:41 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/21/2022 7:04:41 PM
Surr: 4-Bromofluorobenzene	98.9	70-130	%Rec	1	10/21/2022 7:04:41 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	66	60	mg/Kg	20	10/23/2022 2:28:08 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-16 1

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 9:45:00 AM

 Lab ID:
 2210A33-011
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/24/2022 11:39:43 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/24/2022 11:39:43 AM
Surr: DNOP	94.4	21-129	%Rec	1	10/24/2022 11:39:43 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/21/2022 7:28:11 PM
Surr: BFB	91.6	37.7-212	%Rec	1	10/21/2022 7:28:11 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 7:28:11 PM
Toluene	ND	0.048	mg/Kg	1	10/21/2022 7:28:11 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/21/2022 7:28:11 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/21/2022 7:28:11 PM
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	10/21/2022 7:28:11 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	130	60	mg/Kg	20	10/23/2022 2:40:33 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-10 1

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 10:55:00 AM

 Lab ID:
 2210A33-012
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 12:03:20 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/24/2022 12:03:20 PM
Surr: DNOP	94.1	21-129	%Rec	1	10/24/2022 12:03:20 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/21/2022 8:38:42 PM
Surr: BFB	90.4	37.7-212	%Rec	1	10/21/2022 8:38:42 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/21/2022 8:38:42 PM
Toluene	ND	0.049	mg/Kg	1	10/21/2022 8:38:42 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/21/2022 8:38:42 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/21/2022 8:38:42 PM
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	1	10/21/2022 8:38:42 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	760	60	mg/Kg	20	10/23/2022 2:52:57 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-35 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 11:00:00 AM

 Lab ID:
 2210A33-013
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 12:27:01 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/24/2022 12:27:01 PM
Surr: DNOP	92.8	21-129	%Rec	1	10/24/2022 12:27:01 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/21/2022 9:02:14 PM
Surr: BFB	90.2	37.7-212	%Rec	1	10/21/2022 9:02:14 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/21/2022 9:02:14 PM
Toluene	ND	0.046	mg/Kg	1	10/21/2022 9:02:14 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/21/2022 9:02:14 PM
Xylenes, Total	ND	0.092	mg/Kg	1	10/21/2022 9:02:14 PM
Surr: 4-Bromofluorobenzene	95.6	70-130	%Rec	1	10/21/2022 9:02:14 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/23/2022 3:05:22 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-36 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 11:05:00 AM

 Lab ID:
 2210A33-014
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/24/2022 12:50:42 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/24/2022 12:50:42 PM
Surr: DNOP	95.5	21-129	%Rec	1	10/24/2022 12:50:42 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/21/2022 9:25:53 PM
Surr: BFB	89.9	37.7-212	%Rec	1	10/21/2022 9:25:53 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/21/2022 9:25:53 PM
Toluene	ND	0.049	mg/Kg	1	10/21/2022 9:25:53 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/21/2022 9:25:53 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/21/2022 9:25:53 PM
Surr: 4-Bromofluorobenzene	95.8	70-130	%Rec	1	10/21/2022 9:25:53 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	98	59	mg/Kg	20	10/23/2022 3:17:47 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-37 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 11:10:00 AM

 Lab ID:
 2210A33-015
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 1:14:26 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/24/2022 1:14:26 PM
Surr: DNOP	93.4	21-129	%Rec	1	10/24/2022 1:14:26 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/21/2022 9:49:32 PM
Surr: BFB	90.3	37.7-212	%Rec	1	10/21/2022 9:49:32 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 9:49:32 PM
Toluene	ND	0.048	mg/Kg	1	10/21/2022 9:49:32 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/21/2022 9:49:32 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/21/2022 9:49:32 PM
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	10/21/2022 9:49:32 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	390	60	mg/Kg	20	10/23/2022 3:30:12 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-38 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 11:35:00 AM

 Lab ID:
 2210A33-016
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 1:38:12 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/24/2022 1:38:12 PM
Surr: DNOP	94.0	21-129	%Rec	1	10/24/2022 1:38:12 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/21/2022 10:13:11 PM
Surr: BFB	92.5	37.7-212	%Rec	1	10/21/2022 10:13:11 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 10:13:11 PM
Toluene	ND	0.048	mg/Kg	1	10/21/2022 10:13:11 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/21/2022 10:13:11 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/21/2022 10:13:11 PM
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	10/21/2022 10:13:11 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/23/2022 3:42:37 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-24 1

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 1:00:00 PM

 Lab ID:
 2210A33-017
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 2:01:57 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/24/2022 2:01:57 PM
Surr: DNOP	95.4	21-129	%Rec	1	10/24/2022 2:01:57 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/21/2022 10:36:51 PM
Surr: BFB	90.3	37.7-212	%Rec	1	10/21/2022 10:36:51 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/21/2022 10:36:51 PM
Toluene	ND	0.047	mg/Kg	1	10/21/2022 10:36:51 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/21/2022 10:36:51 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/21/2022 10:36:51 PM
Surr: 4-Bromofluorobenzene	95.0	70-130	%Rec	1	10/21/2022 10:36:51 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/23/2022 3:55:01 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-13 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 1:15:00 PM

 Lab ID:
 2210A33-018
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/24/2022 2:25:40 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/24/2022 2:25:40 PM
Surr: DNOP	93.5	21-129	%Rec	1	10/24/2022 2:25:40 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/21/2022 11:00:28 PM
Surr: BFB	92.7	37.7-212	%Rec	1	10/21/2022 11:00:28 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/21/2022 11:00:28 PM
Toluene	ND	0.047	mg/Kg	1	10/21/2022 11:00:28 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/21/2022 11:00:28 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/21/2022 11:00:28 PM
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	1	10/21/2022 11:00:28 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/23/2022 4:07:26 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-14 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 1:20:00 PM

 Lab ID:
 2210A33-019
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 2:49:26 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/24/2022 2:49:26 PM
Surr: DNOP	93.4	21-129	%Rec	1	10/24/2022 2:49:26 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/21/2022 11:24:08 PM
Surr: BFB	90.8	37.7-212	%Rec	1	10/21/2022 11:24:08 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 11:24:08 PM
Toluene	ND	0.049	mg/Kg	1	10/21/2022 11:24:08 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/21/2022 11:24:08 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/21/2022 11:24:08 PM
Surr: 4-Bromofluorobenzene	95.4	70-130	%Rec	1	10/21/2022 11:24:08 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	160	61	mg/Kg	20	10/23/2022 11:34:15 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-18 1

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 1:45:00 PM

 Lab ID:
 2210A33-020
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 3:13:14 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/24/2022 3:13:14 PM
Surr: DNOP	95.4	21-129	%Rec	1	10/24/2022 3:13:14 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/21/2022 11:47:47 PM
Surr: BFB	88.2	37.7-212	%Rec	1	10/21/2022 11:47:47 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 11:47:47 PM
Toluene	ND	0.048	mg/Kg	1	10/21/2022 11:47:47 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/21/2022 11:47:47 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/21/2022 11:47:47 PM
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	10/21/2022 11:47:47 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	180	60	mg/Kg	20	10/23/2022 4:44:41 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210A33**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: MB-70995 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **70995** RunNo: **92015**

Prep Date: 10/21/2022 Analysis Date: 10/21/2022 SeqNo: 3301708 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-70995 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70995 RunNo: 92015

Prep Date: 10/21/2022 Analysis Date: 10/21/2022 SeqNo: 3301709 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.4 90 110

Sample ID: MB-70996 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70996 RunNo: 92023

Prep Date: 10/21/2022 Analysis Date: 10/23/2022 SeqNo: 3301998 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-70996 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70996 RunNo: 92023

Prep Date: 10/21/2022 Analysis Date: 10/23/2022 SeqNo: 3301999 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.0 90 110

Sample ID: MB-70995 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **70995** RunNo: **92023**

Prep Date: 10/21/2022 Analysis Date: 10/23/2022 SeqNo: 3302027 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-70995 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70995 RunNo: 92023

Prep Date: 10/21/2022 Analysis Date: 10/23/2022 SeqNo: 3302028 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.4 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

9.8

4.3

WO#: **2210A33 28-Oct-22**

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: LCS-70987 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 70987 RunNo: 92025 Prep Date: 10/21/2022 Analysis Date: 10/24/2022 SeqNo: 3302245 Units: mq/Kq SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Diesel Range Organics (DRO) 43 15 50.00 Λ 86.5 64.4 127 Surr: DNOP 4.4 5.000 88.5 21 129

Sample ID: MB-70987 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 70987 RunNo: 92025 Prep Date: 10/21/2022 Analysis Date: 10/24/2022 SeqNo: 3302247 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 15 Motor Oil Range Organics (MRO) ND 50

98.0

94.7

21

21

129

129

0

10.00

4.500

Sample ID: 2210A33-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: BES22-41 2.5' Batch ID: 70987 RunNo: 92025 Prep Date: 10/21/2022 Analysis Date: 10/24/2022 SeqNo: 3302439 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 40 14 45.75 0 87.1 36.1 154 Surr: DNOP 4.2 4.575 92.3 21 129

Sample ID: 2210A33-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: BES22-41 2.5' Batch ID: 70987 RunNo: 92025 Prep Date: 10/21/2022 Analysis Date: 10/24/2022 SeqNo: 3302440 Units: mg/Kg %RPD Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Analyte Diesel Range Organics (DRO) 40 14 45.00 0 89.7 36.1 154 1.34 33.9

Qualifiers:

Surr: DNOP

Surr: DNOP

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210A33**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: mb-70953 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70953 RunNo: 92004

Prep Date: 10/20/2022 Analysis Date: 10/21/2022 SeqNo: 3300850 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 960 1000 96.3 37.7 212

Sample ID: Ics-70953 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70953 RunNo: 92004

Prep Date: 10/20/2022 Analysis Date: 10/21/2022 SeqNo: 3300851 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 O 103 72.3 137 Surr: BFB S 3200 1000 316 37.7 212

Sample ID: 2210a33-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: BES22-41 2.5' Batch ID: 70953 RunNo: 92004

Prep Date: 10/20/2022 Analysis Date: 10/21/2022 SeqNo: 3300853 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result POI LowLimit HighLimit Qual Gasoline Range Organics (GRO) 29 5.0 24.80 0 115 70 130 Surr: BFB 2000 992.1 205 37.7 212

Sample ID: 2210a33-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BES22-41 2.5' Batch ID: 70953 RunNo: 92004

Prep Date: 10/20/2022 Analysis Date: 10/21/2022 SeqNo: 3300854 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 29 4.9 116 70 20 24 73 130 0.533 Surr: BFB 2100 989.1 208 37.7 212 0

Sample ID: mb-70932 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70932 RunNo: 92004

Prep Date: 10/19/2022 Analysis Date: 10/22/2022 SeqNo: 3300881 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 900 1000 89.6 37.7 212

Sample ID: Ics-70932 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70932 RunNo: 92004

Prep Date: 10/19/2022 Analysis Date: 10/22/2022 SeqNo: 3300882 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 2000 1000 196 37.7 212

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210A33**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: mb-70953 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 70953 RunNo: 92004

Prep Date: 10/20/2022 Analysis Date: 10/21/2022 SeqNo: 3300919 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 100 70 130

Sample ID: LCS-70953 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 70953 RunNo: 92004

Prep Date: 10/20/2022 Analysis Date: 10/21/2022 SeqNo: 3300920 Units: mg/Kg

Prep Date: 10/20/2022	Analysis L)ate: 10)/21/2022	3	seqivo: 3	300920	Units: mg/K	.g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.7	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: 2210a33-002ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: BES22-42 2.5' Batch ID: 70953 RunNo: 92004

Prep Date: 10/20/2022	Analysis [Date: 10)/21/2022	S	SeqNo: 3	300923	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.024	0.9470	0.01307	101	68.8	120			
Toluene	1.0	0.047	0.9470	0.01354	104	73.6	124			
Ethylbenzene	1.0	0.047	0.9470	0	106	72.7	129			
Xylenes, Total	3.0	0.095	2.841	0.01932	106	75.7	126			
Surr: 4-Bromofluorobenzene	0.92		0.9470		96.9	70	130			

Sample ID: 2210a33-002amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: BES22-42 2.5' Batch ID: 70953 RunNo: 92004

Prep Date: 10/20/2022	Analysis D	Date: 10)/21/2022	S	SeqNo: 3	300924	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9461	0.01307	99.0	68.8	120	2.16	20	
Toluene	0.97	0.047	0.9461	0.01354	102	73.6	124	2.92	20	
Ethylbenzene	0.99	0.047	0.9461	0	104	72.7	129	2.01	20	
Xylenes, Total	3.0	0.095	2.838	0.01932	104	75.7	126	1.31	20	
Surr: 4-Bromofluorobenzene	0.94		0.9461		99.1	70	130	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210A33 28-Oct-22**

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: mb-70932 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 70932 RunNo: 92004

Prep Date: 10/19/2022 Analysis Date: 10/22/2022 SeqNo: 3300943 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Surr: 4-Bromofluorobenzene
 0.96
 1.000
 95.5
 70
 130

Sample ID: LCS-70932 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 70932 RunNo: 92004

Prep Date: 10/19/2022 Analysis Date: 10/22/2022 SeqNo: 3300944 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.96 1.000 96.5 70 130

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Vertex Resources Services, Inc.	Work Order Num	ber: 221	0A33		RcptN	o: 1
Received By:	Juan Rojas	10/20/2022 7:55:00	O AM		Hearing	2	
Completed By:	Tracy Casarrubias	10/20/2022 8:17:28	ВАМ				
Reviewed By: S	cc 10/20/27						
Chain of Cust	tody						
1. Is Chain of Cu	ustody complete?		Yes	~	No [□ Not Present □	
2. How was the	sample delivered?		Cou	rier			
Log In							
Was an attem	pt made to cool the sample	s?	Yes	V	No [□ NA □	
4. Were all samp	les received at a temperatu	re of >0° C to 6.0°C	Yes	V	No [□ NA □	
5. Sample(s) in p	proper container(s)?		Yes	V	No []	
6. Sufficient samp	ole volume for indicated tes	t(s)?	Yes	V	No []	
7. Are samples (e	except VOA and ONG) prop	erly preserved?	Yes	~	No 🗆]	
8. Was preservat	ive added to bottles?		Yes		No 🔽	NA 🗆	
9. Received at lea	ast 1 vial with headspace <	1/4" for AQ VOA?	Yes		No [NA ☑	
0. Were any sam	ple containers received bro	ken?	Yes		No 🔽	# of preserved	
	rk match bottle labels?		Yes	V	No 🗆		or >12 unless noted)
2. Are matrices co	orrectly identified on Chain	of Custody?	Yes	V	No 🗆		
	analyses were requested?		Yes	V	No [Line Zon Land
	g times able to be met? stomer for authorization.)		Yes	V	No 🗆	Checked by:	KPG 10-2(
pecial Handli	ng (if applicable)						
5. Was client not	ified of all discrepancies wit	h this order?	Yes		No [□ NA 🗹	
Person N	Notified:	Date:				-	
By Whor	n:	Via:	☐ eMa	ail 🔲 I	Phone 🔲 F	ax In Person	
Regardin	ng:						
Client Ins	structions:						
6. Additional rem	narks;						
7. Cooler Inform	nation						
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Da	ate	Signed By		
1	2.4 Good Y	es					

		HALL ENVIRONMENTAL
DEVOULVEREX	☐ Standard	
	Project Name:	NO INTO SE
Mailing Address:	Papas Fritas 27 CTB1	www.nallenvironmental.com 4901 Hawkine NE Albudana Albuda
	Project #:	- Albuqueique, INM 87 109
	276-01417	Analysis Reguest
	Project Manager:	(C)
☐ Level 4 (Full Validation)	Kent stanings	
mpliance	7	1 S80 (1. 07S8 1 , _s OI
□ Other	On Ice: Pres DNo	40 8/s 10 (A
	olers: 1	GE dese dese dese dese dese
	Cooler Temp(including CF): 2, 3+Ct. 1:2.9 (°C)	MTF 15D(estici letho y 83 Met 3r, N 3r, N
Matrix Sample Name	Container Preservative HEAL No. Type and # Type	2081 P 2084 8 3084 8 30, F, E 30, E, E 30, E, E 30, E
Soil BESZZ-41 Z.S'	ZCE OC	3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
8 ESZZ-42 Z,S'		
BESZZ-44 2.5'	003	
WESTZ-08 1'	had	
BES22-28 2.5'	you	
BESZZ-29 Z.S'	200	
BESC2-30 2.5'	400	
8ESZZ-31 2.5'	3000	
WESZZ-11 2'	000	
LUESS-15 11	010	
VEST-16)'	110	
ES22-10 1'		
	9/27	Remarks: CC: Charce Dixon
Relinquished by:	Received by: Via: Date Time	1500

	בקוק בקוק	Chain-or-Custody Record	1 UITH-ALOUND I IME: Z-D9 y	794					C 1		
Client:	~	Devon/Vertex	☐ Standard	, e		U	MALL ENVI	NU N	A LK	HALL ENVIKONMENTAL ANALVETE LABORATOR	1 5
								בן ה		LABORALOR	
Mailing	Mailing Address:	ss:	Papas Frieds	35	40	01 Hav	www.hall		nmenta	environmental.com): 12/
			Project #:		· F	Tel. 505-	505-345-3975		theildhe	505-345-4107	2/202
Phone #:	#:		11/10-322					Inal	s Request	est	22 2.
email or Fax#:	r Fax#:		Project Manager:					† О		(tr	:04:
QA/QC Package:	Package	e: /	Kent stallings	spri	's (802°		SMIS	PO₄, S		nəsdA\t	46 PM -
Accreditation:	itation: AC	☐ Az Compliance	Sampler: C\(\int\) On Ice: \(\partial\)	S		Z808/		'ZON		resen	
□ EDD (Type)	(Type)		olers:	1		səp	0 01	-		д) ш	
			(including CF):	13to 1224 (°C)	ITM	ioitee	y 83.	k, N	-imə	nofile	
Date	Time	Matrix Sample Name	Container Preservative Type and # Type	HEAL No.	(X∃T8 08:H9T	9081 P6 M) 803	d sHAS	SSE0 (V	S) 0728	O lsto	
10/18	00:11	0 5011 BESZZ-35 ZS'		013				7	3		E
-	11:05			710	-						
	11:10	BESZZ-37 Z.S'		010							
	11:35	BE522-38		200							
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100	1000	_	1000	10/01/11							2



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

October 31, 2022

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (575) 748-0176

FAX:

RE: Papas fritas 27 CTB1 OrderNo.: 2210B03

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 33 sample(s) on 10/21/2022 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 Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-25 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 8:45:00 AM

 Lab ID:
 2210B03-001
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 9:47:11 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/25/2022 9:47:11 AM
Surr: DNOP	91.9	21-129	%Rec	1	10/25/2022 9:47:11 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/25/2022 2:27:27 AM
Surr: BFB	96.3	37.7-212	%Rec	1	10/25/2022 2:27:27 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/25/2022 2:27:27 AM
Toluene	ND	0.048	mg/Kg	1	10/25/2022 2:27:27 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/25/2022 2:27:27 AM
Xylenes, Total	ND	0.096	mg/Kg	1	10/25/2022 2:27:27 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	10/25/2022 2:27:27 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	300	60	mg/Kg	20	10/24/2022 5:45:13 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ple pH Not In Range
Orting Limit
Page 1 of 40

Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-26 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 8:45:00 AM

 Lab ID:
 2210B03-002
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 10:00:44 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/25/2022 10:00:44 AM
Surr: DNOP	85.3	21-129	%Rec	1	10/25/2022 10:00:44 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/25/2022 2:50:59 AM
Surr: BFB	98.2	37.7-212	%Rec	1	10/25/2022 2:50:59 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/25/2022 2:50:59 AM
Toluene	ND	0.050	mg/Kg	1	10/25/2022 2:50:59 AM
Ethylbenzene	ND	0.050	mg/Kg	1	10/25/2022 2:50:59 AM
Xylenes, Total	ND	0.10	mg/Kg	1	10/25/2022 2:50:59 AM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/25/2022 2:50:59 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	97	60	mg/Kg	20	10/24/2022 5:57:38 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 40

Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-27 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 8:55:00 AM

 Lab ID:
 2210B03-003
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: DGH				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 10:14:26 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 10:14:26 AM
Surr: DNOP	93.7	21-129	%Rec	1	10/25/2022 10:14:26 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 3:14:27 AM
Surr: BFB	87.5	37.7-212	%Rec	1	10/25/2022 3:14:27 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/25/2022 3:14:27 AM
Toluene	ND	0.049	mg/Kg	1	10/25/2022 3:14:27 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2022 3:14:27 AM
Xylenes, Total	ND	0.097	mg/Kg	1	10/25/2022 3:14:27 AM
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	10/25/2022 3:14:27 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	790	60	mg/Kg	20	10/24/2022 7:24:30 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Reporting Limit Page 3 of 40

Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-19 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 9:00:00 AM

 Lab ID:
 2210B03-004
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 10:27:57 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/25/2022 10:27:57 AM
Surr: DNOP	88.5	21-129	%Rec	1	10/25/2022 10:27:57 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 3:37:53 AM
Surr: BFB	91.3	37.7-212	%Rec	1	10/25/2022 3:37:53 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/25/2022 3:37:53 AM
Toluene	ND	0.049	mg/Kg	1	10/25/2022 3:37:53 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2022 3:37:53 AM
Xylenes, Total	ND	0.098	mg/Kg	1	10/25/2022 3:37:53 AM
Surr: 4-Bromofluorobenzene	97.4	70-130	%Rec	1	10/25/2022 3:37:53 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	89	60	mg/Kg	20	10/24/2022 7:36:54 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 40

Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-22 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 9:05:00 AM

 Lab ID:
 2210B03-005
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 10:41:34 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/25/2022 10:41:34 AM
Surr: DNOP	90.3	21-129	%Rec	1	10/25/2022 10:41:34 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/25/2022 4:01:21 AM
Surr: BFB	98.4	37.7-212	%Rec	1	10/25/2022 4:01:21 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/25/2022 4:01:21 AM
Toluene	ND	0.050	mg/Kg	1	10/25/2022 4:01:21 AM
Ethylbenzene	ND	0.050	mg/Kg	1	10/25/2022 4:01:21 AM
Xylenes, Total	ND	0.10	mg/Kg	1	10/25/2022 4:01:21 AM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	10/25/2022 4:01:21 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	140	60	mg/Kg	20	10/24/2022 7:49:18 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-23 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 9:10:00 AM

 Lab ID:
 2210B03-006
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 10:55:10 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/25/2022 10:55:10 AM
Surr: DNOP	91.6	21-129	%Rec	1	10/25/2022 10:55:10 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 4:24:43 AM
Surr: BFB	96.2	37.7-212	%Rec	1	10/25/2022 4:24:43 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/25/2022 4:24:43 AM
Toluene	ND	0.049	mg/Kg	1	10/25/2022 4:24:43 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2022 4:24:43 AM
Xylenes, Total	ND	0.098	mg/Kg	1	10/25/2022 4:24:43 AM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	10/25/2022 4:24:43 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	97	60	mg/Kg	20	10/24/2022 8:01:42 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-25 1'

Project: Papas fritas 27 CTB1 **Collection Date:** 10/19/2022 9:15:00 AM 2210B03-007 Lab ID: Matrix: SOIL **Received Date:** 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 11:08:40 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/25/2022 11:08:40 AM
Surr: DNOP	76.8	21-129	%Rec	1	10/25/2022 11:08:40 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/25/2022 4:48:11 AM
Surr: BFB	96.5	37.7-212	%Rec	1	10/25/2022 4:48:11 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/25/2022 4:48:11 AM
Toluene	ND	0.050	mg/Kg	1	10/25/2022 4:48:11 AM
Ethylbenzene	ND	0.050	mg/Kg	1	10/25/2022 4:48:11 AM
Xylenes, Total	ND	0.099	mg/Kg	1	10/25/2022 4:48:11 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	10/25/2022 4:48:11 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	10/24/2022 8:14:06 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
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Ε
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-06 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 9:20:00 AM

 Lab ID:
 2210B03-008
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: DGH				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 11:22:15 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 11:22:15 AM
Surr: DNOP	85.3	21-129	%Rec	1	10/25/2022 11:22:15 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/25/2022 5:11:40 AM
Surr: BFB	89.6	37.7-212	%Rec	1	10/25/2022 5:11:40 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/25/2022 5:11:40 AM
Toluene	ND	0.050	mg/Kg	1	10/25/2022 5:11:40 AM
Ethylbenzene	ND	0.050	mg/Kg	1	10/25/2022 5:11:40 AM
Xylenes, Total	ND	0.10	mg/Kg	1	10/25/2022 5:11:40 AM
Surr: 4-Bromofluorobenzene	96.1	70-130	%Rec	1	10/25/2022 5:11:40 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	10/24/2022 8:26:31 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-07 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 9:25:00 AM

 Lab ID:
 2210B03-009
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 11:35:55 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 11:35:55 AM
Surr: DNOP	78.8	21-129	%Rec	1	10/25/2022 11:35:55 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/24/2022 3:05:00 PM
Surr: BFB	107	37.7-212	%Rec	1	10/24/2022 3:05:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/24/2022 3:05:00 PM
Toluene	ND	0.048	mg/Kg	1	10/24/2022 3:05:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/24/2022 3:05:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/24/2022 3:05:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/24/2022 3:05:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 9:03:45 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-03 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 9:55:00 AM

 Lab ID:
 2210B03-010
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 11:49:24 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 11:49:24 AM
Surr: DNOP	76.9	21-129	%Rec	1	10/25/2022 11:49:24 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/24/2022 3:45:00 PM
Surr: BFB	104	37.7-212	%Rec	1	10/24/2022 3:45:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/24/2022 3:45:00 PM
Toluene	ND	0.049	mg/Kg	1	10/24/2022 3:45:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/24/2022 3:45:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/24/2022 3:45:00 PM
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	10/24/2022 3:45:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 9:16:10 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-04 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 10:00:00 AM

 Lab ID:
 2210B03-011
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 3:15:29 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/25/2022 3:15:29 PM
Surr: DNOP	80.4	21-129	%Rec	1	10/25/2022 3:15:29 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/24/2022 4:05:00 PM
Surr: BFB	106	37.7-212	%Rec	1	10/24/2022 4:05:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 4:05:00 PM
Toluene	ND	0.050	mg/Kg	1	10/24/2022 4:05:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/24/2022 4:05:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/24/2022 4:05:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/24/2022 4:05:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 9:28:34 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ple pH Not In Range
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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-05 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 10:05:00 AM

 Lab ID:
 2210B03-012
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 12:16:29 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/25/2022 12:16:29 PM
Surr: DNOP	77.3	21-129	%Rec	1	10/25/2022 12:16:29 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/24/2022 4:25:00 PM
Surr: BFB	97.5	37.7-212	%Rec	1	10/24/2022 4:25:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 4:25:00 PM
Toluene	ND	0.050	mg/Kg	1	10/24/2022 4:25:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/24/2022 4:25:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/24/2022 4:25:00 PM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	10/24/2022 4:25:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 10:05:46 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-13 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 10:30:00 AM

 Lab ID:
 2210B03-013
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C		Analyst: DGH			
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 12:30:00 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/25/2022 12:30:00 PM
Surr: DNOP	82.9	21-129	%Rec	1	10/25/2022 12:30:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/24/2022 4:44:00 PM
Surr: BFB	99.0	37.7-212	%Rec	1	10/24/2022 4:44:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 4:44:00 PM
Toluene	ND	0.049	mg/Kg	1	10/24/2022 4:44:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/24/2022 4:44:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/24/2022 4:44:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	10/24/2022 4:44:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 10:18:10 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-14 2.5'

Project: Papas fritas 27 CTB1 Collection Date: 10/19/2022 10:35:00 AM 2210B03-014 Lab ID: Matrix: SOIL Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF		Analyst: DGH			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 12:43:38 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 12:43:38 PM
Surr: DNOP	75.7	21-129	%Rec	1	10/25/2022 12:43:38 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/24/2022 5:04:00 PM
Surr: BFB	102	37.7-212	%Rec	1	10/24/2022 5:04:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/24/2022 5:04:00 PM
Toluene	ND	0.048	mg/Kg	1	10/24/2022 5:04:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/24/2022 5:04:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/24/2022 5:04:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/24/2022 5:04:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 10:30:35 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
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL

Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-15 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 10:40:00 AM

 Lab ID:
 2210B03-015
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	Analyst: DGH				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 12:57:28 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 12:57:28 PM
Surr: DNOP	81.8	21-129	%Rec	1	10/25/2022 12:57:28 PM
EPA METHOD 8015D: GASOLINE RANGE	1				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/24/2022 5:24:00 PM
Surr: BFB	103	37.7-212	%Rec	1	10/24/2022 5:24:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/24/2022 5:24:00 PM
Toluene	ND	0.048	mg/Kg	1	10/24/2022 5:24:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/24/2022 5:24:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/24/2022 5:24:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/24/2022 5:24:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 10:42:59 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-17 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 10:45:00 AM

 Lab ID:
 2210B03-016
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O		Analyst: DGH			
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 1:11:00 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/25/2022 1:11:00 PM
Surr: DNOP	73.8	21-129	%Rec	1	10/25/2022 1:11:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/24/2022 5:43:00 PM
Surr: BFB	109	37.7-212	%Rec	1	10/24/2022 5:43:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/24/2022 5:43:00 PM
Toluene	ND	0.048	mg/Kg	1	10/24/2022 5:43:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/24/2022 5:43:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/24/2022 5:43:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/24/2022 5:43:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 10:55:23 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-19 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 10:50:00 AM

 Lab ID:
 2210B03-017
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 1:24:37 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/25/2022 1:24:37 PM
Surr: DNOP	84.6	21-129	%Rec	1	10/25/2022 1:24:37 PM
EPA METHOD 8015D: GASOLINE RANGE	Ī				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/24/2022 6:03:00 PM
Surr: BFB	95.5	37.7-212	%Rec	1	10/24/2022 6:03:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/24/2022 6:03:00 PM
Toluene	ND	0.048	mg/Kg	1	10/24/2022 6:03:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/24/2022 6:03:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/24/2022 6:03:00 PM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	10/24/2022 6:03:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 11:32:37 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-26 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 10:55:00 AM

 Lab ID:
 2210B03-018
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 1:38:28 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/25/2022 1:38:28 PM
Surr: DNOP	86.3	21-129	%Rec	1	10/25/2022 1:38:28 PM
EPA METHOD 8015D: GASOLINE RANGI	Ē				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/24/2022 6:23:00 PM
Surr: BFB	103	37.7-212	%Rec	1	10/24/2022 6:23:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 6:23:00 PM
Toluene	ND	0.049	mg/Kg	1	10/24/2022 6:23:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/24/2022 6:23:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/24/2022 6:23:00 PM
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	10/24/2022 6:23:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 11:45:01 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ple pH Not In Range Page 18 of 40

Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-28 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 11:00:00 AM

 Lab ID:
 2210B03-019
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF		Analyst: JME			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 9:49:39 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 9:49:39 AM
Surr: DNOP	85.0	21-129	%Rec	1	10/25/2022 9:49:39 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/24/2022 8:22:00 PM
Surr: BFB	99.9	37.7-212	%Rec	1	10/24/2022 8:22:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 8:22:00 PM
Toluene	ND	0.050	mg/Kg	1	10/24/2022 8:22:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/24/2022 8:22:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/24/2022 8:22:00 PM
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	10/24/2022 8:22:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	59	mg/Kg	20	10/24/2022 11:57:25 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-29 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 11:05:00 AM

 Lab ID:
 2210B03-020
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: JME				
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/25/2022 10:13:29 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/25/2022 10:13:29 AM
Surr: DNOP	92.8	21-129	%Rec	1	10/25/2022 10:13:29 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/24/2022 9:21:00 PM
Surr: BFB	98.1	37.7-212	%Rec	1	10/24/2022 9:21:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 9:21:00 PM
Toluene	ND	0.050	mg/Kg	1	10/24/2022 9:21:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/24/2022 9:21:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/24/2022 9:21:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/24/2022 9:21:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 12:34:37 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-23 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 12:30:00 PM

 Lab ID:
 2210B03-021
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: JME				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 10:37:19 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 10:37:19 AM
Surr: DNOP	90.0	21-129	%Rec	1	10/25/2022 10:37:19 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/24/2022 10:20:00 PM
Surr: BFB	101	37.7-212	%Rec	1	10/24/2022 10:20:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/24/2022 10:20:00 PM
Toluene	ND	0.049	mg/Kg	1	10/24/2022 10:20:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/24/2022 10:20:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/24/2022 10:20:00 PM
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	10/24/2022 10:20:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 1:11:50 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-27 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 12:35:00 PM

 Lab ID:
 2210B03-022
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	Analyst: JME				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 11:01:08 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/25/2022 11:01:08 AM
Surr: DNOP	90.3	21-129	%Rec	1	10/25/2022 11:01:08 AM
EPA METHOD 8015D: GASOLINE RANGE	<u> </u>				Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/24/2022 10:40:00 PM
Surr: BFB	97.7	37.7-212	%Rec	1	10/24/2022 10:40:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 10:40:00 PM
Toluene	ND	0.050	mg/Kg	1	10/24/2022 10:40:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/24/2022 10:40:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/24/2022 10:40:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/24/2022 10:40:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 1:24:14 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ple pH Not In Range
orting Limit
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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-12 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 12:40:00 PM

 Lab ID:
 2210B03-023
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: JME				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 11:24:56 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/25/2022 11:24:56 AM
Surr: DNOP	90.9	21-129	%Rec	1	10/25/2022 11:24:56 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/24/2022 11:00:00 PM
Surr: BFB	101	37.7-212	%Rec	1	10/24/2022 11:00:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 11:00:00 PM
Toluene	ND	0.049	mg/Kg	1	10/24/2022 11:00:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/24/2022 11:00:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/24/2022 11:00:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/24/2022 11:00:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	61	mg/Kg	20	10/25/2022 2:01:27 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ple pH Not In Range
orting Limit
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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-10 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 12:45:00 PM

 Lab ID:
 2210B03-024
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 1:43:00 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/25/2022 1:43:00 PM
Surr: DNOP	100	21-129	%Rec	1	10/25/2022 1:43:00 PM
EPA METHOD 8015D: GASOLINE RANGE	₫				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/24/2022 11:20:00 PM
Surr: BFB	96.6	37.7-212	%Rec	1	10/24/2022 11:20:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 11:20:00 PM
Toluene	ND	0.049	mg/Kg	1	10/24/2022 11:20:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/24/2022 11:20:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/24/2022 11:20:00 PM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	10/24/2022 11:20:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 2:13:51 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-09 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 12:50:00 PM

 Lab ID:
 2210B03-025
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	Analyst: DGH				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 1:18:56 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 1:18:56 PM
Surr: DNOP	98.9	21-129	%Rec	1	10/25/2022 1:18:56 PM
EPA METHOD 8015D: GASOLINE RANGI	Ē				Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/24/2022 11:39:00 PM
Surr: BFB	98.0	37.7-212	%Rec	1	10/24/2022 11:39:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 11:39:00 PM
Toluene	ND	0.050	mg/Kg	1	10/24/2022 11:39:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/24/2022 11:39:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/24/2022 11:39:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/24/2022 11:39:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 2:26:15 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-08 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 12:55:00 PM

 Lab ID:
 2210B03-026
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 12:54:43 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/25/2022 12:54:43 PM
Surr: DNOP	103	21-129	%Rec	1	10/25/2022 12:54:43 PM
EPA METHOD 8015D: GASOLINE RANGE	<u> </u>				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/24/2022 11:59:00 PM
Surr: BFB	97.8	37.7-212	%Rec	1	10/24/2022 11:59:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/24/2022 11:59:00 PM
Toluene	ND	0.049	mg/Kg	1	10/24/2022 11:59:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/24/2022 11:59:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/24/2022 11:59:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/24/2022 11:59:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 2:38:39 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-06 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 1:00:00 PM

 Lab ID:
 2210B03-027
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 12:30:35 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/25/2022 12:30:35 PM
Surr: DNOP	102	21-129	%Rec	1	10/25/2022 12:30:35 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 12:19:00 AM
Surr: BFB	98.3	37.7-212	%Rec	1	10/25/2022 12:19:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/25/2022 12:19:00 AM
Toluene	ND	0.049	mg/Kg	1	10/25/2022 12:19:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2022 12:19:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	10/25/2022 12:19:00 AM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	10/25/2022 12:19:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 2:51:04 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-05 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 1:05:00 PM

 Lab ID:
 2210B03-028
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH				
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/25/2022 12:06:16 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/25/2022 12:06:16 PM
Surr: DNOP	94.7	21-129	%Rec	1	10/25/2022 12:06:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 12:38:00 AM
Surr: BFB	101	37.7-212	%Rec	1	10/25/2022 12:38:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/25/2022 12:38:00 AM
Toluene	ND	0.049	mg/Kg	1	10/25/2022 12:38:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2022 12:38:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	10/25/2022 12:38:00 AM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/25/2022 12:38:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 3:03:28 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-04 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 1:10:00 PM

 Lab ID:
 2210B03-029
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: DGH				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 11:42:16 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 11:42:16 AM
Surr: DNOP	97.2	21-129	%Rec	1	10/25/2022 11:42:16 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/25/2022 1:18:00 AM
Surr: BFB	102	37.7-212	%Rec	1	10/25/2022 1:18:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/25/2022 1:18:00 AM
Toluene	ND	0.048	mg/Kg	1	10/25/2022 1:18:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/25/2022 1:18:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	10/25/2022 1:18:00 AM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/25/2022 1:18:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 3:15:52 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-02 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 1:15:00 PM

 Lab ID:
 2210B03-030
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: DGH				
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/25/2022 11:17:57 AM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	10/25/2022 11:17:57 AM
Surr: DNOP	96.9	21-129	%Rec	1	10/25/2022 11:17:57 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 1:38:00 AM
Surr: BFB	100	37.7-212	%Rec	1	10/25/2022 1:38:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/25/2022 1:38:00 AM
Toluene	ND	0.049	mg/Kg	1	10/25/2022 1:38:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2022 1:38:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	10/25/2022 1:38:00 AM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	10/25/2022 1:38:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 3:28:17 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-31 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 1:20:00 PM

 Lab ID:
 2210B03-031
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 10:53:49 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/25/2022 10:53:49 AM
Surr: DNOP	98.8	21-129	%Rec	1	10/25/2022 10:53:49 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 1:57:00 AM
Surr: BFB	97.8	37.7-212	%Rec	1	10/25/2022 1:57:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/25/2022 1:57:00 AM
Toluene	ND	0.049	mg/Kg	1	10/25/2022 1:57:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2022 1:57:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	10/25/2022 1:57:00 AM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/25/2022 1:57:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 3:40:41 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-32 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 1:25:00 AM

 Lab ID:
 2210B03-032
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/25/2022 10:29:41 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/25/2022 10:29:41 AM
Surr: DNOP	99.5	21-129	%Rec	1	10/25/2022 10:29:41 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 2:17:00 AM
Surr: BFB	100	37.7-212	%Rec	1	10/25/2022 2:17:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/25/2022 2:17:00 AM
Toluene	ND	0.049	mg/Kg	1	10/25/2022 2:17:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2022 2:17:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	10/25/2022 2:17:00 AM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/25/2022 2:17:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	61	mg/Kg	20	10/25/2022 12:26:48 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-33 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 1:30:00 PM

 Lab ID:
 2210B03-033
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 10:05:33 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/25/2022 10:05:33 AM
Surr: DNOP	101	21-129	%Rec	1	10/25/2022 10:05:33 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/25/2022 2:37:00 AM
Surr: BFB	99.1	37.7-212	%Rec	1	10/25/2022 2:37:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/25/2022 2:37:00 AM
Toluene	ND	0.048	mg/Kg	1	10/25/2022 2:37:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/25/2022 2:37:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	10/25/2022 2:37:00 AM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/25/2022 2:37:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	160	60	mg/Kg	20	10/25/2022 12:39:08 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Devon Energy

Client:

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210B03** *31-Oct-22*

Project: Papas fritas 27 CTB1 Sample ID: MB-71027 SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 71027 RunNo: 92018 Prep Date: 10/24/2022 Analysis Date: 10/24/2022 SeqNo: 3302974 Units: mq/Kq SPK Ref Val %RPD **RPDLimit** Analyte Result **PQL** SPK value %REC LowLimit HighLimit Qual Chloride ND 1.5 Sample ID: LCS-71027 TestCode: EPA Method 300.0: Anions SampType: Ics Client ID: LCSS Batch ID: 71027 RunNo: 92018 Prep Date: 10/24/2022 Analysis Date: 10/24/2022 SeqNo: 3302975 Units: mg/Kg **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual 98.2 Chloride 15 1.5 15.00 90 110 Sample ID: MB-71031 SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: **PBS** Batch ID: 71031 RunNo: 92018 Prep Date: Analysis Date: 10/24/2022 10/24/2022 SeqNo: 3303006 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Qual Analyte LowLimit HighLimit Chloride Sample ID: LCS-71031 SampType: Ics TestCode: EPA Method 300.0: Anions

Sample ID: MB-71033	SampT	ype: mb	olk	Tes	tCode: EF	;							
Client ID: PBS	Batch	Batch ID: 71033			RunNo: 92046								
Prep Date: 10/24/2022	Analysis D	Analysis Date: 10/24/2022			Date: 10/24/2022 SeqNo: 3303106				303106	6 Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Chloride	ND	1.5											

n

SPK Ref Val

RunNo: 92018

%REC

98.0

SeqNo: 3303007

LowLimit

90

Units: mg/Kg

110

%RPD

RPDLimit

Qual

HighLimit

Sample ID: LCS-71033	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID: LCSS	Batch ID: 71033	RunNo: 92046	
Prep Date: 10/24/2022	Analysis Date: 10/24/2022	SeqNo: 3303107 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual

Chloride 15 1.5 15.00 0 97.2 90 110

Batch ID: 71031

Analysis Date: 10/24/2022

PQL

1.5

Result

15

SPK value

15.00

Qualifiers:

Client ID:

Prep Date:

Analyte

Chloride

LCSS

10/24/2022

- 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210B03** *31-Oct-22*

Client:	Devon Energy
Project:	Papas fritas 27 CTB1

Project: Papas fr	itas 27 CTB1									
Sample ID: MB-71043	SampTy	pe: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	ID: 710)43	F	RunNo: 92	2056				
Prep Date: 10/24/2022	Analysis Da	te: 10	/25/2022	5	SeqNo: 33	303572	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.9		10.00		79.0	21	129			
Sample ID: LCS-71043	SampTy	pe: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	ID: 710)43	F	RunNo: 92056					
Prep Date: 10/24/2022	Analysis Da	te: 10	/25/2022	5	SeqNo: 33	303573	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	50.00	0	95.5	64.4	127			
Surr: DNOP	3.5		5.000		70.8	21	129			
Sample ID: 2210B03-001AMS	SampTy	pe: MS	}	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BES22-25 2.5'	Batch	ID: 710)43	F	RunNo: 92056					
Prep Date: 10/24/2022	Analysis Da	ite: 10	/25/2022	Ş	SeqNo: 33	303592	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	15	49.46	0	108	36.1	154			
Surr: DNOP	4.1		4.946		83.3	21	129			
Sample ID: 2210B03-001AMS	SD SampTy	pe: MS	SD .	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BES22-25 2.5'	Batch	ID: 710)43	F	RunNo: 92	2056				
Prep Date: 10/24/2022	Analysis Da	te: 10	/25/2022	9	SeqNo: 33	803593	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	14	47.48	0	96.0	36.1	154	15.5	33.9	
Surr: DNOP	3.8		4.748		79.7	21	129	0	0	
		ne. Mc		Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Sample ID: 2210B03-019AMS	SampTy	pc. IVI	,		RunNo: 92056			_		
Sample ID: 2210B03-019AMS Client ID: WES22-28 1'		ID: 71 (RunNo: 92	2056		_		
		ID: 710)21	F	RunNo: 92 SeqNo: 33		Units: mg/K			
Client ID: WES22-28 1'	Batch	ID: 710)21	F	_		Units: mg/K HighLimit		RPDLimit	Qual
Client ID: WES22-28 1' Prep Date: 10/24/2022	Batch Analysis Da	ID: 710)21 /25/2022	F	SeqNo: 33	303594	J	g	RPDLimit	Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2210B03 31-Oct-22

WO#:

Client:	Devon Energy
Project:	Papas fritas 27 CTB1

Sample ID: 2210B03-019AMSD	SampType: M	SD	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID: WES22-28 1'	Batch ID: 71	021	F	RunNo: 92	2056				
Prep Date: 10/24/2022	Analysis Date: 1	0/25/2022	S	SeqNo: 33	803595	Units: mg/Kg	3		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52 14	47.04	0	110	36.1	154	3.45	33.9	
Surr: DNOP	4.0	4.704		85.1	21	129	0	0	
Sample ID: MB-71021	SampType: M	BLK	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID: PBS	Batch ID: 71	021	F	RunNo: 92	2056				
Prep Date: 10/24/2022	Analysis Date: 1	0/25/2022	8	SeqNo: 33	307123	Units: mg/Kg	9		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 15								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	8.0	10.00		80.1	21	129			
Sample ID: LCS-71021	SampType: LC	cs	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID: LCSS	Batch ID: 71	021	F	RunNo: 92	2056				
Prep Date: 10/24/2022	Analysis Date: 1	0/25/2022	8	SeqNo: 33	307124	Units: mg/Kg	9		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52 15	50.00	0	104	64.4	127			
Surr: DNOP	3.9	5.000		78.1	21	129			
Sample ID: MB-71024	SampType: M	BLK	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	Organics	
011 115	Batch ID: 71	024	-	RunNo: 92	ODEC				
Client ID: PBS	Dalcii ID. 71	024	ľ	kuriino. 9 2	2030				
Client ID: PBS Prep Date: 10/24/2022	Analysis Date: 1			SeqNo: 33		Units: %Rec			
-		0/25/2022		_		Units: %Rec	%RPD	RPDLimit	Qual
Prep Date: 10/24/2022	Analysis Date: 1	0/25/2022	5	SeqNo: 33	307125		%RPD	RPDLimit	Qual
Prep Date: 10/24/2022 Analyte	Analysis Date: 10	0/25/2022 SPK value 10.00	SPK Ref Val	SeqNo: 33 %REC 82.1	807125 LowLimit 21	HighLimit			Qual
Prep Date: 10/24/2022 Analyte Surr: DNOP	Analysis Date: 10 Result PQL 8.2	SPK value 10.00	SPK Ref Val	SeqNo: 33 %REC 82.1	LowLimit 21 PA Method	HighLimit 129			Qual
Prep Date: 10/24/2022 Analyte Surr: DNOP Sample ID: LCS-71024	Analysis Date: 10 Result PQL 8.2 SampType: L0	SPK value 10.00 CS 024	SPK Ref Val Tes	%REC 82.1 tCode: EF	LowLimit 21 PA Method 2056	HighLimit 129			Qual
Prep Date: 10/24/2022 Analyte Surr: DNOP Sample ID: LCS-71024 Client ID: LCSS	Analysis Date: 10 Result PQL 8.2 SampType: L0 Batch ID: 71	0/25/2022 SPK value 10.00 CS 024 0/25/2022	SPK Ref Val Tes	SeqNo: 33 %REC 82.1 tCode: EF RunNo: 92	LowLimit 21 PA Method 2056	HighLimit 129 8015M/D: Dies			Qual Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Devon Energy

Client:

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210B03**

Qual

31-Oct-22

Project:	Papas fritas 27 CTB1							
Sample ID: mb	SampType	MBLK	Test	tCode: EF	PA Method	8015D: Gasoli	ne Range	
Client ID: PBS	Batch ID:	G92027	R	unNo: 92	2027			
Prep Date:	Analysis Date:	10/24/2022	S	eqNo: 33	302526	Units: %Rec		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Surr: BFB	950	1000		95.1	37.7	212		

Sample ID: 2.5ug gro lcs TestCode: EPA Method 8015D: Gasoline Range SampType: LCS Client ID: LCSS Batch ID: **G92027** RunNo: 92027 Prep Date: Analysis Date: 10/24/2022 SeqNo: 3302527 Units: %Rec **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Surr: BFB 1900 1000 190 37.7 212

TestCode: EPA Method 8015D: Gasoline Range Sample ID: mb-71004 SampType: MBLK Client ID: **PBS** Batch ID: 71004 RunNo: 92027 Prep Date: Analysis Date: 10/24/2022 SeqNo: 3302554 10/23/2022 Units: mq/Kq Result PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte LowLimit HighLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 1000 970 97.4 37.7 212

Sample ID: Ics-71004 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 71004 RunNo: 92027 Prep Date: 10/23/2022 Analysis Date: 10/24/2022 SeqNo: 3302555 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 28 5.0 25.00 0 111 72.3 137 Surr: BFB 2100 1000 37.7 212

Sample ID: mb-71005 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PRS Batch ID: 71005 RunNo: 92041 Analysis Date: 10/24/2022 Prep Date: 10/23/2022 SeqNo: 3302845 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 990 1000 98.8 37.7 212

Sample ID: Ics-71005 TestCode: EPA Method 8015D: Gasoline Range SampType: LCS LCSS Client ID: Batch ID: 71005 RunNo: 92041 Prep Date: Analysis Date: 10/24/2022 SeqNo: 3303528 10/23/2022 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 0 103 72.3 137 Surr: BFB 2200 1000 223 37.7 S 212

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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2210B03 31-Oct-22

WO#:

Client: Devon Energy
Project: Papas fritas 27 CTB1

Sample ID: 2210B03-019ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: WES22-28 1' Batch ID: 71005 RunNo: 92041 Units: mg/Kg Prep Date: 10/23/2022 Analysis Date: 10/24/2022 SeqNo: 3303535 PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit Gasoline Range Organics (GRO) 24 4.8 24.13 n 101 70 130 Surr: BFB 2200 965.3 230 37.7 212 S

Sample ID: 2210B03-019amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: WES22-28 1' Batch ID: 71005 RunNo: 92041 Prep Date: 10/23/2022 Analysis Date: 10/24/2022 SeqNo: 3303536 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 4.8 23.88 95.2 70 6.61 20 Surr: BFB 2100 955.1 215 37.7 212 0 0 S

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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210B03**

31-Oct-22

Client: Devon Energy
Project: Papas fritas 27 CTB1

Sample ID: mb-71004	SampT	уре: МЕ	BLK	Tes	tCode: EF	les				
Client ID: PBS	Batch	n ID: 710	004	RunNo: 92027						
Prep Date: 10/23/2022	Analysis D	Date: 10	/24/2022	9	SeqNo: 33	302600	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: LCS-71004	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les			
Client ID: LCSS	Batcl	n ID: 710	: 71004 RunNo: 92027								
Prep Date: 10/23/2022	Analysis D	Date: 10	/24/2022	5	SeqNo: 33	302601	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.025	1.000	0	100	80	120				
Toluene	1.0	0.050	1.000	0	101	80	120				
Ethylbenzene	1.0	0.050	1.000	0	101	80	120				
Xylenes, Total	3.1	0.10	3.000	0	102	80	120				
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130				

Sample ID: Ics-71005	Samp1	ype: LC	S	Tes	tCode: EF					
Client ID: LCSS	Batcl	n ID: 710	005	F	RunNo: 92041					
Prep Date: 10/23/2022	Analysis D	Date: 10	/24/2022	5	SeqNo: 3302911 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	105	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	70	130			

Sample ID: mb-71005	SampT	уре: МВ	LK	Tes	tCode: EF	les				
Client ID: PBS	Batch	n ID: 710	005	F	RunNo: 92					
Prep Date: 10/23/2022	Analysis D	Date: 10	/24/2022	9	SeqNo: 33	302912	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210B03** 31-Oct-22

Client: Devon Energy
Project: Papas fritas 27 CTB1

Sample ID: 2210B03-020ams Client ID: WES22-29 1' Prep Date: 10/23/2022	·	Гуре: MS h ID: 710 Date: 10		F	tCode: ERRUNO: 92	2041	I 8021B: Volatiles Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9606	0	108	68.8	120			
Toluene	1.0	0.048	0.9606	0	108	73.6	124			
Ethylbenzene	1.0	0.048	0.9606	0	109	72.7	129			
Xylenes, Total	3.1	3.1 0.096 2.882			108	75.7	126			
Surr: 4-Bromofluorobenzene	1.1		0.9606		110	70	130			

Sample ID: 2210B03-020amsd	Samp	Гуре: М S	SD	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: WES22-29 1'	Batc	h ID: 71 0	005	F	RunNo: 92	2041				
Prep Date: 10/23/2022	Analysis [Date: 10	/24/2022	(SeqNo: 3	303538	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9785	0	106	68.8	120	0.0500	20	
Toluene	1.0	0.049	0.9785	0	107	73.6	124	0.909	20	
Ethylbenzene	1.0	0.049	0.9785	0	107	72.7	129	0.0712	20	
Xylenes, Total	3.1	0.098	2.935	0	106	75.7	126	0.0953	20	
Surr: 4-Bromofluorobenzene	1.1		0.9785		108	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque. NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Devon Energy	Work Order Nu	ımber: 22	10B03		RcptNo	: 1
Received By:	Juan Rojas	10/21/2022 7:20:	00 AM		Harring	3	
Completed By:	Tracy Casarrubias	10/21/2022 7:46:			7		
Reviewed By:	See 10/21/2		33 AW				
Chain of Cus	<u>tody</u>						
1. Is Chain of Co	ustody complete?		Ye	s V	No 🗆	Not Present	
2. How was the	sample delivered?		Co	urier		West result [
Log In							
Was an attern	pt made to cool the sampl	es?	Yes	V	No 🗌	NA 🗆	
4. Were all samp	les received at a temperat	ure of >0° C to 6.0°C	Yes	V	No 🗌	NA 🗆	
5. Sample(s) in p	roper container(s)?		Yes	V	No 🗆		
6. Sufficient samp	ole volume for indicated te	st(s)?	Yes		No 🗆		
	xcept VOA and ONG) pro		Yes		No 🗆		
	ve added to bottles?		Yes		No 🗹	NA 🗌	
9. Received at lea	st 1 vial with headspace <	1/4" for AQ VOA?	Yes		No 🗆	NA 🗸	
	ole containers received bro		Yes		No 🗹	NA 🛂	
11. Does paperwork	k match bottle labels?		Yes		No □	# of preserved bottles checked for pH:	
	cies on chain of custody)					(<2 or	12 unless noted)
12. Are manices co	rrectly identified on Chain analyses were requested?	of Custody?		V	No 🗌	Adjusted?	
	times able to be met?		Yes		No 📙		1. 1.6. 7.1
(If no, notify cus	tomer for authorization.)		Yes	V	No 📙	Checked by:	7410.21.23
Special Handlin	g (if applicable)						
15. Was client notif	ied of all discrepancies wit	h this order?	Yes		No 🗆	NA 🗹	
Person No	otified:	Date:					
By Whom		Via:	eMa	il \square P	hone Fax	☐ In Person	
Regarding					I tak		
Client Inst	ructions:						
16. Additional rema	irks:						
17. Cooler Informa Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Da	te	Signed By		

Page 1 of 1

	Bioosi (mare		1017	7				-			
Client: Devon	Devon/Vertex	□ Standard	Rush	_			HAL	L EN	M	HALL ENVIRONMEN	
		Project Name	١					AINALTOIN	ח	LABORA	A DOR
Mailing Address:	20 Eile	Papa	Papas Fritas	S 27 CT B1		901 H2	www.hall		onmen	tal.com	
		Project #:			· ·	Tol 505	VALUE OF		querqu	Aibuquerque, NM 87109	
Phone #:		322	-01417				000-040-000	Inal	rax 505 vsis Rec	505-345-4107 Reguest	
email or Fax#:		Project Manager:	ger:		_		L	† ((;	E
QA/QC Package:	☐ Level 4 (Full Validation)	Kent		Stamings	s (8021)		SMIS	OS ' [†] O⊲		tnəsdA\	
	☐ Az Compliance	Sampler: C∆				280		1 ' ² O		uəse	
□ NELAC □ (□ Other	On Ice:	₽-Yes	□ No		8/8	3 10		(A	Pre	
□ EDD (Type)		# of Coolers:	1			əpi	01		ΟΛ) w	
		Cooler Temp(including CF):	ncluding CF): (9-	2+0.2-04 (°C)		oitse	£8 y	ν', N		olifori	
Date Time Matrix	rix Sample Name	Container Type and #	Preservative Type	HEAL No.	(X3TE	8081 P6 M) 803	d sHA¢	3 ARJS 31,F, ₽	V) 09S 8) 07S	oO lsto	
10/198455017			755	Wi	-	3	4	3			
S:2	8E522-26 25	-		100	-			-	-		
\$3:8				500							
9:00	1501			716							
50:6	WES 22-22 /			. 3							
01:10	WES27-23 1'			200							
2:15	WES22-25 11			500							
92:6	WESZZ-06 1'			900							
52:6	WESZZ-07)'			000							
9:55	WESZZ-03 1			0.0							
85.01	LESZZ-06/ 1			SIX							
20.07	WESZZ-05 11			210							
20 1100	Kelinduished by:	Received by: Via:	Via:	10/10/12 1100	Remarks:	1		0	1	10	1
Date: Time: Relind	Relinquished by:	Received by:	Via:	2 -		r Q	A ACA	8/11	18787	V	16494502
		the	10001	10/1 chich							170 William / 1000 4 1000 7:20

HALL ENVIRONMENTAL Project Name: Project Name: Project Warner: Project Name: Proje	Chain-of-Custody Record	Turn-Around Time: $Z-D4 y$	
	\ \		
			ANALISIS LABORATOR
Project #: Pro	200	Strirds	allenvironmental.com
Sampler Container Project Manager Project	1	Project #:	- Albuquerque, NM 87109
CoC Peckage Complete Com	Phone #:	71410-322	Fax 505-345-4107
Sandard Care A Compliance Care A Compliance Care Ca	email or Fax#;	Project Manager:	
New Compliance Nampler CD Note		Kent	SO ^{¢†} SC SIWS SCB, ² O \ WKC
Time Matrix Sample Name Cooler Tempored or Cooler Tempored o		200) DR(S) (1.1) (S) (S) (S) (S) (S) (S) (S) (S) (S) (S
Time Matrix Sample Name Cooler Temporeus or; Color Tempo	1_	- Aes	OS 3)/26 00 3, 01 3, 1
Time Matrix Sample Name Container Preservative HEAL No. Container Preservative HEAL No. Container Preservative HEAL No. Container Preservative HEAL No. Container Container Preservative HEAL No. Container			od bod 310 () ()
		0.C+0 <- 0.4	ol 5[0] Pestii Sy 8 M 8 M Sr, JCA
19 10 : 30 18 18 18 18 18 18 18 1	Time Matrix	Preservative Type	3081 P 3081 P 3081 P 3081 E 308 (N 3081) P 3081 P 3081 P 3081 P 3081 P
0.35 8 ESZ 2-14 2.5' 0114 1	10:36 SOIT BESZZ-13	202	3 3 4 4 8 8
10.40 BES22-15 2.5' 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15 0.15	BE522-14		
(0.50 BESZZ-17 Z.S' OILE OIS LESZZ-26 € 1' DIP Vico LESZZ-26 € 1' DIP Vico LESZZ-27 OILE Vico Received by: Via: Date Time Vico WO Common World Vico Wo Common Vico Wo	B E522-15	SIO	
(3.50 &£\$z\$2.26 € 1 M\$P 1/:00 4/£\$22-26 € 1 M\$P 1/:00 4/£\$22-29 1 019 1/:05 4/£\$22-29 1 010 1/:05 4/£\$22-29 1 010 1/:05 4/£\$22-27 020 1/:05 4/£\$22-27 020 1/:05 4/£\$22-27 020 1/:05 4/£\$22-10 020 1/:05 4/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05 6/£\$22-10 020 1/:05	BES22-17 Z.S	910	
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This process	ontracted to other accredited laborate	~ 10/2/22 7120					
		d sill in a solves as notice of fills bo	ssibility. Any sub-c	ontracted data v	vill be clearly r	notated on th	



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

November 03, 2022

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (575) 748-0176

FAX:

RE: Papas Fritas 27 CTB1 OrderNo.: 2210E68

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/29/2022 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 Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-10 1'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/27/2022 9:30:00 AM

 Lab ID:
 2210E68-001
 Matrix: MEOH (SOIL)
 Received Date: 10/29/2022 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 8:30:03 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/1/2022 8:30:03 AM
Surr: DNOP	98.1	21-129	%Rec	1	11/1/2022 8:30:03 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	10/30/2022 1:29:59 AM
Surr: BFB	92.8	37.7-212	%Rec	1	10/30/2022 1:29:59 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	10/30/2022 1:29:59 AM
Toluene	ND	0.033	mg/Kg	1	10/30/2022 1:29:59 AM
Ethylbenzene	ND	0.033	mg/Kg	1	10/30/2022 1:29:59 AM
Xylenes, Total	ND	0.067	mg/Kg	1	10/30/2022 1:29:59 AM
Surr: 4-Bromofluorobenzene	99.5	70-130	%Rec	1	10/30/2022 1:29:59 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/31/2022 1:54:14 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 12

Date Reported: 11/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-07 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/27/2022 9:45:00 AM

 Lab ID:
 2210E68-002
 Matrix: MEOH (SOIL)
 Received Date: 10/29/2022 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 8:40:30 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/1/2022 8:40:30 AM
Surr: DNOP	97.4	21-129	%Rec	1	11/1/2022 8:40:30 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	10/30/2022 1:53:29 AM
Surr: BFB	89.9	37.7-212	%Rec	1	10/30/2022 1:53:29 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	10/30/2022 1:53:29 AM
Toluene	ND	0.033	mg/Kg	1	10/30/2022 1:53:29 AM
Ethylbenzene	ND	0.033	mg/Kg	1	10/30/2022 1:53:29 AM
Xylenes, Total	ND	0.066	mg/Kg	1	10/30/2022 1:53:29 AM
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	10/30/2022 1:53:29 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/31/2022 2:31:28 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 12

Date Reported: 11/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-11 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/27/2022 9:50:00 AM

 Lab ID:
 2210E68-003
 Matrix: MEOH (SOIL)
 Received Date: 10/29/2022 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 3:13:21 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/1/2022 3:13:21 AM
Surr: DNOP	97.8	21-129	%Rec	1	11/1/2022 3:13:21 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	10/30/2022 2:16:59 AM
Surr: BFB	87.4	37.7-212	%Rec	1	10/30/2022 2:16:59 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.016	mg/Kg	1	10/30/2022 2:16:59 AM
Toluene	ND	0.033	mg/Kg	1	10/30/2022 2:16:59 AM
Ethylbenzene	ND	0.033	mg/Kg	1	10/30/2022 2:16:59 AM
Xylenes, Total	ND	0.066	mg/Kg	1	10/30/2022 2:16:59 AM
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	10/30/2022 2:16:59 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/31/2022 3:08:42 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

rring Limit Page 3 of 12

Date Reported: 11/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-27 3'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/27/2022 9:55:00 AM

 Lab ID:
 2210E68-004
 Matrix: MEOH (SOIL)
 Received Date: 10/29/2022 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 3:23:50 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/1/2022 3:23:50 AM
Surr: DNOP	97.6	21-129	%Rec	1	11/1/2022 3:23:50 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	10/30/2022 4:37:53 AM
Surr: BFB	91.5	37.7-212	%Rec	1	10/30/2022 4:37:53 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	10/30/2022 4:37:53 AM
Toluene	ND	0.035	mg/Kg	1	10/30/2022 4:37:53 AM
Ethylbenzene	ND	0.035	mg/Kg	1	10/30/2022 4:37:53 AM
Xylenes, Total	ND	0.070	mg/Kg	1	10/30/2022 4:37:53 AM
Surr: 4-Bromofluorobenzene	98.4	70-130	%Rec	1	10/30/2022 4:37:53 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/31/2022 3:21:06 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-30 3'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/27/2022 10:00:00 AM

 Lab ID:
 2210E68-005
 Matrix: MEOH (SOIL)
 Received Date: 10/29/2022 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/1/2022 3:34:21 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/1/2022 3:34:21 AM
Surr: DNOP	98.2	21-129	%Rec	1	11/1/2022 3:34:21 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	10/30/2022 5:48:06 AM
Surr: BFB	91.8	37.7-212	%Rec	1	10/30/2022 5:48:06 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	10/30/2022 5:48:06 AM
Toluene	ND	0.034	mg/Kg	1	10/30/2022 5:48:06 AM
Ethylbenzene	ND	0.034	mg/Kg	1	10/30/2022 5:48:06 AM
Xylenes, Total	ND	0.068	mg/Kg	1	10/30/2022 5:48:06 AM
Surr: 4-Bromofluorobenzene	97.6	70-130	%Rec	1	10/30/2022 5:48:06 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/31/2022 3:33:31 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-31 3'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/27/2022 10:05:00 AM

 Lab ID:
 2210E68-006
 Matrix: MEOH (SOIL)
 Received Date: 10/29/2022 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 3:44:52 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/1/2022 3:44:52 AM
Surr: DNOP	91.7	21-129	%Rec	1	11/1/2022 3:44:52 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	10/30/2022 6:58:11 AM
Surr: BFB	93.4	37.7-212	%Rec	1	10/30/2022 6:58:11 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.015	mg/Kg	1	10/30/2022 6:58:11 AM
Toluene	ND	0.031	mg/Kg	1	10/30/2022 6:58:11 AM
Ethylbenzene	ND	0.031	mg/Kg	1	10/30/2022 6:58:11 AM
Xylenes, Total	ND	0.062	mg/Kg	1	10/30/2022 6:58:11 AM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	10/30/2022 6:58:11 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	59	mg/Kg	20	10/31/2022 3:45:55 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210E68** *03-Nov-22*

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: MB-71179 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 71179 RunNo: 92227

Prep Date: 10/31/2022 Analysis Date: 10/31/2022 SeqNo: 3312348 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-71179 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 71179 RunNo: 92227

Prep Date: 10/31/2022 Analysis Date: 10/31/2022 SeqNo: 3312349 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.7 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 12

Hall Environmental Analysis Laboratory, Inc.

2210E68 03-Nov-22

WO#:

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: LCS-71171	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	n ID: 71 1	171	F	RunNo: 92	2198				
Prep Date: 10/31/2022	Analysis D	oate: 10	/31/2022	5	SeqNo: 33	311075	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	15	50.00	0	92.2	64.4	127			
Surr: DNOP	4.4		5.000		88.2	21	129			
Sample ID: MB-71171	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	·

Client ID: PBS	Batch	ID: 711	71	F	RunNo: 92	2198				
Prep Date: 10/31/2022	Analysis D	ate: 10	/31/2022	9	SeqNo: 3	311076	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.3	21	129			

Sample ID: LCS-71174	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 71174	RunNo: 92198	
Prep Date: 10/31/2022	Analysis Date: 10/31/2022	SeqNo: 3312301	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	5.5 5.000	110 21	129

Sample ID: MB-71174	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 71174	RunNo: 92198
Prep Date: 10/31/2022	Analysis Date: 10/31/2022	SeqNo: 3312302 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.7 10.00	96.8 21 129

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2210E68

03-Nov-22

Client:	Devon Energy
Project:	Papas Fritas 27 CTB1

Project:	Papas Frit	as 27 CTI	31								
Sample ID:	mb	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID:	PBS	Batch	ID: A9	2186	F	RunNo: 92	2186				
Prep Date:		Analysis D	ate: 10	/29/2022	5	SeqNo: 33	309758	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	e Organics (GRO)	ND 940	5.0	1000		94.0	37.7	212			
Sample ID:	2.5ug gro lcs	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID:	LCSS	Batch	ID: A9	2186	F	RunNo: 92	2186				
Prep Date:		Analysis D	ate: 10	/29/2022	5	SeqNo: 33	309759	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	26	5.0	25.00	0	105	72.3	137			
Surr: BFB		2000		1000		203	37.7	212			
Sample ID:	mb-II	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID:	PBS	Batch	ID: B9	2186	F	RunNo: 92	2186				
Prep Date:		Analysis D	ate: 10	/30/2022	5	SeqNo: 33	309782	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	e Organics (GRO)	ND 930	5.0	1000		92.6	37.7	212			
Sample ID:	2.5ug gro lcs-II	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID:	LCSS	Batch	ID: B9	2186	F	RunNo: 92	2186				
Prep Date:		Analysis D	ate: 10	/30/2022	5	SeqNo: 33	309783	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	25	5.0	25.00	0	99.4	72.3	137			
Surr: BFB		1900		1000		195	37.7	212			
Sample ID:	2210e68-004ams	SampT	ype: MS	;	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID:	BES22-27 3'	Batch	ID: B9	2186	F	RunNo: 92	2186				
Prep Date:		Analysis D	ate: 10	/30/2022	5	SeqNo: 33	309791	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
ū	e Organics (GRO)	17	3.5	17.39	0	96.1	70	130			
Surr: BFB		1300		695.4		191	37.7	212			
Sample ID:	2210e68-004amsd	SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID:	BES22-27 3'	Batch	ID: B9	2186	F	RunNo: 92	2186				
Prep Date:		Analysis D	ate: 10	/30/2022	5	SeqNo: 33	309792	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210E68** *03-Nov-22*

Qual

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: 2210e68-004amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BES22-27 3'** Batch ID: **B92186** RunNo: **92186**

Prep Date: Analysis Date: 10/30/2022 SeqNo: 3309792 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Gasoline Range Organics (GRO) 16 3.5 17.39 0 90.6 70 130 5.83 20 Surr: BFB 1300 695.4 182 37.7 212 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210E68**

03-Nov-22

Client:	Devon Energy
Project:	Papas Fritas 27 CTB1

Sample ID: mb	SampT	SampType: MBLK			tCode: EF					
Client ID: PBS	Batcl	ult PQL SPK value SPK F			RunNo: 92186					
Prep Date:	Analysis D	Date: 10	/29/2022	5	SeqNo: 33	309797	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-Bromofluorobenzene	0.99		1.000		98.7	70	130			

Sample ID: 100ng btex lcs	SampT	ype: LC	S	Tes	8021B: Volati	les					
Client ID: LCSS	Batcl	n ID: C9 2	2186	F	RunNo: 92186						
Prep Date:	Analysis D	Date: 10	/29/2022	5	SeqNo: 3	309798	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.025	1.000	0	105	80	120				
Toluene	1.1	0.050	1.000	0	105	80	120				
Ethylbenzene	1.0	0.050	1.000	0	104	80	120				
Xylenes, Total	3.1	0.10	3.000	0	105	80	120				
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130				

Sample ID: mb-II	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	h ID: D9	2186	F	RunNo: 92	2186				
Prep Date:	Analysis [Date: 10	/30/2022	5	SeqNo: 33	309819	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-Bromofluorobenzene	0.99		1.000		99.2	70	130			

Sample ID: 100ng btex ics-II	Samp ¹	Гуре: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batc	h ID: D9 2	2186	F	RunNo: 92186					
Prep Date:	Analysis [Date: 10	/30/2022	5	SeqNo: 3309820 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210E68** *03-Nov-22*

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: 2210e68-005ams	Samp ⁻	Гуре: МЅ	;	Tes	tCode: EF					
Client ID: BES22-30 3'	Batc	h ID: D9 :	2186	F	RunNo: 92	2186				
Prep Date:	Analysis [Date: 10	/30/2022	5	SeqNo: 33	309828	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.62	0.017	0.6752	0	92.6	68.8	120			
Toluene	0.64	0.034	0.6752	0	94.8	73.6	124			
Ethylbenzene	0.64	0.034	0.6752	0	94.8	72.7	129			
Xylenes, Total	1.9	0.068	2.026	0.01249	93.6	75.7	126			
Surr: 4-Bromofluorobenzene	0.62		0.6752		92.2	70	130			

Sample ID: 2210e68-005ams	d Samp	Туре: МЅ	SD	TestCode: EPA Method 8021B: Volatiles							
Client ID: BES22-30 3'	Bato	h ID: D9	2186	F	RunNo: 92186						
Prep Date:	Analysis	Date: 10	/30/2022	9	SeqNo: 3	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.67	0.017	0.6752	0	99.5	68.8	120	7.24	20		
Toluene	0.68	0.034	0.6752	0	101	73.6	124	6.18	20		
Ethylbenzene	0.68	0.034	0.6752	0	101	72.7	129	6.76	20		
Xylenes, Total	2.0	0.068	2.026	0.01249	99.8	75.7	126	6.42	20		
Surr: 4-Bromofluorobenzene	0.68		0.6752		100	70	130	0	0		

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque. NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 3/7/2023 9:01:34 AM

Recei	t Name:	Devon Ene	rgy	Work	Order Misseel	0040				
				11011	Order Numb	er: 2210	Eρά		RcptN	o: 1
_	ved By:	Tracy Cas	sarrubias	10/29/2	022 8:45:00	AM				
Comp	eleted By:	Tracy Cas	arrubias	10/29/2	022 9:23:52	АМ				
Revie	wed By:	-								
<u>Chair</u>	n of Cus	tody								
1. Is (Chain of Cu	ıstody comp	lete?			Yes	V	No 🗆	Not Present	
2. Ho	w was the	sample deliv	rered?			Cour	<u>ier</u>			
<u>Log</u> 3. Wa		pt made to o	cool the samp	oles?		Yes	V	No 🗌	NA 🗌	
4. We	re all samp	les received	l at a tempera	ature of >0°C1	o 6.0°C	Yes	V	No 🗌	na 🗆	
5. Sar	mple(s) in p	oroper conta	iner(s)?			Yes	V	No 🗌		
6. Suff	ficient sam	ple volume f	or indicated t	est(s)?		Yes	V	No 🗀		
7 Are	samples (e	except VOA	and ONG) pr	operly preserve	d?	Yes	V	No 🗌		
8. Wa	s preservat	tive added to	bottles?			Yes		No 🗹	NA 🗌	
9. Red	ceived at le	ast 1 vial wit	h headspace	<1/4" for AQ V	OA?			No 🗌	NA 🗹	/
10. We	ere any sam	nple contains	ers received t	oroken?		Yes	Ц	No 🗹	# of preserved	
		rk match bo	ttle labels? ain of custody	<i>r</i>)		Yes	V	No 🗌		or ×12 unless noted)
12. Are	matrices c	orrectly iden	tified on Cha	in of Custody?		Yes	V	No 🗆	Adjusted?	
		-	ere requested	1?			$\overline{\mathbf{V}}$	No 🗌	01/11/	
		-	e to be met? authorization.))		Yes	V	No ∐	Checked by:	The 10/29/20
Specia	al Handli	ng (if app	olicable)							
15.Wa	as client no	tified of all d	iscrepancies	with this order?		Yes		No 🗹	NA 🗹	
	Person	Notified:			Date:		-		*	
	By Who				Via:	eMa	ıil 🗀	Phone 🗌 Fa	x 🔲 In Person	
Regarding:										
10 .		structions:	The state of the s							
	lditional rer									
	Cooler No	mation Temp ⁰C	Condition	Seal Intact	Seal No	Seal Da	to 1	Cinned D.		
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Chain-of-Custody Record	Turn-Around Time: 24-HOUC	HALL FNVTBONMENTAL
Client: DEVON / VLOFEX	□ Standard	ANALYSIS LABORATORY
		www.hallenvironmental.com
Mailing Address: コパ デップ	19795 FriE45 6/6/8/	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #:	ZZE-0/4/7	Analysis Request
email or Fax#:	Project Manager:	†O9
iii	Kent Stallings	O [¢] ' S
		OSO ((2070 9 ,s,
Accreditation: Az Compliance NELAC Other	Sampler: ∠∠⟩ On Ice: □VYes □ No	308/s 8/808 604.1 7 7 8 7 8 9 1 8 1 9 1 9 1 9 1 9 1 9 1 9 1 9
□ EDD (Type)		OCH bod (S NO MO (CH
	Cooler Temp(including cF): 5.3 + 0.1 = 5.4 (°C)	15D lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol lethol letho
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9:50 8ESZZ-1/ 2.5	003	Fresh or the latter of the first order of the second order or the second of the first order o
9.55 BESCS-27 3'	h00	The state of the s
1	500	The state of the s
10:05 BESZZ-31 3'	900	The trade of the trade of the set of the set of the trade
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inv. samples submitted to Hall Environm	nental may be supportinated to other accredited laboratories. This serves as notice of the	edited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 377/2023 9:01:34 AM

ATTACHMENT 8



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Papa Fritas 27 CTB 1, 30 day extension

2 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com> Fri, Oct 21, 2022 at 10:37 AM To: "Enviro, OCD, EMNRD" <OCD.Enviro@state.nm.us>, "Bratcher, Mike, EMNRD" <Mike.Bratcher@state.nm.us>, "Billings, Chad, EMNRD" < chad.hensley@state.nm.us>

Vertex is requesting a 30 day extension for Papa Fritas 27 CTB 1

nAPP2210924425, release date 4/18/2022

and

nAPP2127146416, release date 9/28/2021,

We are currently excavating and have collected confirmation samples. The excavation is almost complete and we are generating the report with the expectation that it will be ready within 30 days.

Please let me know if you have any questions or concerns.

Thank you,

Kent

Kent Stallings P.G.

Project Manager

Vertex Resource Services Inc. 3101 Boyd Drive, Carlsbad, NM 88220

P 575,725,5001 C 346.814.1413

www.vertex.ca

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Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov> To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Mon, Oct 24, 2022 at 1:40 PM

Kent,

Remediation plans were due for incident NAPP2210924425 on 07/18/2022 and incident NAPP2127146416 on 12/28/2021. Due to the requests being outside the 90 day guideline, the extension requests are denied. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave. | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

http://www.emnrd.state.nm.us/OCD/



From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Friday, October 21, 2022 10:37 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>;

Billings, Bradford, EMNRD < Bradford.Billings@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Hensley, Chad, EMNRD <Chad.Hensley@emnrd.nm.gov>

Subject: [EXTERNAL] Papa Fritas 27 CTB 1, 30 day extension

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

[Quoted text hidden]

ATTACHMENT 9

DEVON ENERGYPapas Fritas 27 CTB 1

Work Plan - Preliminary

UL O, Section 27, T23S, R29E Eddy County, New Mexico

> NAPP2127146416 NAPP2129171458

October 6, 2021



Prepared for:

Devon Energy 6488 Seven Rivers Hwy Artesia, NM 88210

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Hobbs, New Mexico 88240 (575) 397-0510

Company Contacts

Representative	Company	Telephone	E-mail
Wes Mathews	Devon Energy	575-578-6195	Wesley.Mathews@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was contracted by Devon Energy to assess a release at the Papas Fritas 27 CTB 1 location. This site is situated in UL O, Section 27, Township 23S and Range 29E, in Lea County New Mexico. We are addressing the release in this plan which will be remediated upon plan approval.

According to the NOR for incident NAPP2113158013, corrosion on a fitting resulted in the release of 150 bbls of produced water. A vacuum truck was dispatched and recovered 125 bbls free-standing fluid.

This workplan addresses two incident numbers, NAPP2113158013 & NAPP2127146416. This single event was documented or reported twice, one is a duplicate.

Surface and Ground Water

According to the NMOCD Oil and Gas Map, there is no surface water within 3,000 feet of this location and spill areas. Depth to groundwater determination was not successfully established based on the guidelines required by NMOCD; therefore, Devon will remediate these spills according to the most stringent criteria set forth by NMOCD in NMAC 19.15.29.

Characterization

The release has been fully delineated both vertically and horizontally, which includes establishing horizontal and vertical extent of delineation to the most stringent standard of 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene.

Release Area (NAPP2113158013), Investigation

SESI personnel tracked and mapped the release and sampled the area to achieve both vertical and horizontal delineation. Samples were taken at the surface and 1-foot intervals until field testing indicated the samples to meet target levels. The horizontal extent samples are denoted on the map with an H beside the sample number. The samples were properly preserved and packaged and sent to Hall Environmental Labs for testing. The results of the analytical are captured in the summary table below.

Table 1 – Field Test Samples

Sample ID	Chloride	TPH	Sample ID	Chloride	TPH
AH-1 @ Surf	NT	NT	AH-9 @ Surf	NT	NT
AH-1 @ 1'	2220	NT	AH-9 @ 1'	<108	07
AH-1 @ 2'	160	01			
			AH-10 @ Surf	NT	NT

AH-2 @ Surf	NT	NT		AH-10 @ 1'	1532	NT
AH-2 @ 1'	2604	NT		AH-10 @ 2'	220	12
AH-2 @ 2'	1648	NT		AH-11 @ Surf	NT	NT
AH-2 @ 3'	160	05		AH-11 @ 1'	1648	NT
				AH-11 @ 2'	108	04
AH-3 @ Surf	NT	NT				
AH-3 @ 1'	160	03		AH-12 @ Surf	NT	NT
				AH-12 @ 1'	1532	NT
				AH-12 @ 2'	188	10
AH-4 @ Surf	NT	NT				
AH-4 @ 1'	1648	NT		AH-13 @ Surf	NT	NT
AH-4 @ 2'	188	05		AH-13 @ 1'	1772	NT
				AH-13 @ 2'	220	09
AH-5 @ Surf	NT	NT				
AH-5 @ 1'	1772	NT		AH-14 @ Surf	NT	NT
AH-5 @ 2'	188	02		AH-14 @ 1'	1648	NT
				AH-14 @ 2'	<108	10
AH-6 @ Surf	NT	NT				
AH-6 @ 1'	<108	01		AH-15 @ Surf	NT	NT
				AH-15 @ 1'	2604	NT
AH-7 @ Surf	NT	NT		AH-15 @ 2'	<108	03
AH-7 @ 1'	1772	NT				
AH-7 @ 2'	188	07				
AH-8 @ Surf	NT	NT				
AH-8 @ 1'	1648	NT				
AH-8 @ 2'	252	04				
		Horizo	ntal Sam	nples		
Sample ID	Chloride	TPH		Sample ID	Chloride	TPH
H-N Surf 1	<108	NT		H-S Surf	252	NT
H-N Surf 2	<108	NT		H-E Surf 1	108	NT
H-W Surf 1	<108	NT		H-E Surf 2	252	NT
H-W Surf 2	220	NT				
H-W Surf 3	220	NT				
H-W Surf 4	252	NT				

Release Area (NAPP2113158013), Action Plan

Based on the results above for vertical extent samples AH-1 through AH-15, SESI respectfully recommends the entire leak of release area be remediated to a depth of 2 to 3 foot where applicable. The excavation area is outlined in the map of this release located in this report. Once this remediation plan is approved, Devon will perform the remediation and all removed soil will be disposed of in an OCD-approved landfill. Devon will then conduct both bottom and sidewall confirmation sampling to ensure all contaminated materials have been removed to the most stringent criteria established by NMOCD. Upon receipt of lab results verifying all contaminants have been removed, Devon will backfill the site with uncontaminated soil. If it becomes apparent that facility equipment and/or structure integrity is compromised, SESI respectfully requests deferment of those areas until a later date. If this happens, pictures of the area of equipment/structures will be provided to provide evidence of deferral necessity.

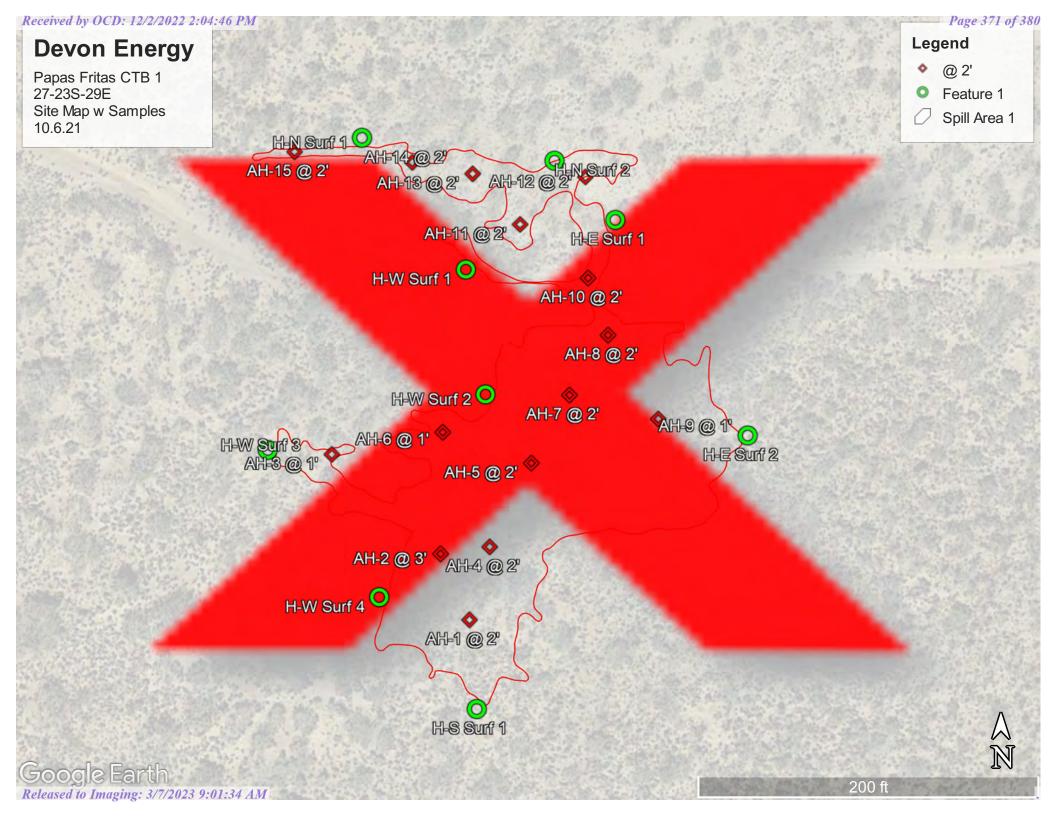
SESI, on behalf of Devon respectfully submits this remediation plan and requests approval at your earliest convenience. Upon approval, remediation efforts will be conducted within 90 days.

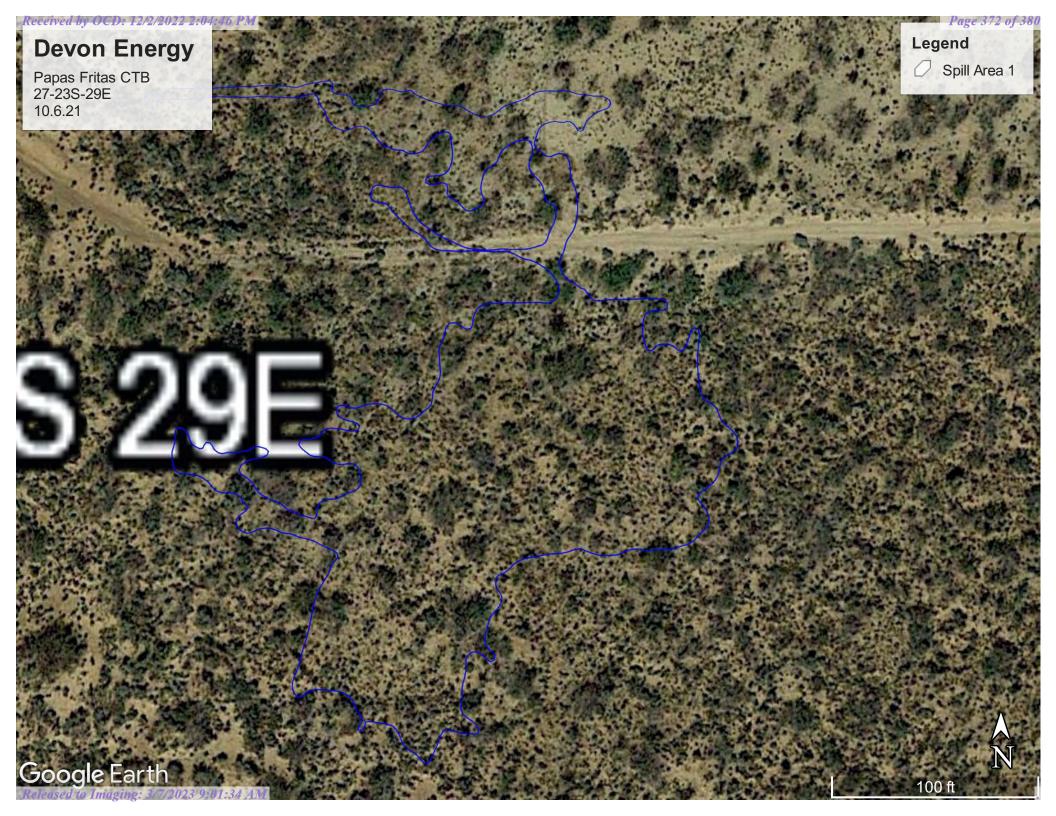
Supplemental and Supporting Documentation

Evidence Document 1: Map of Release area, with vertical and horizontal extent sample locations

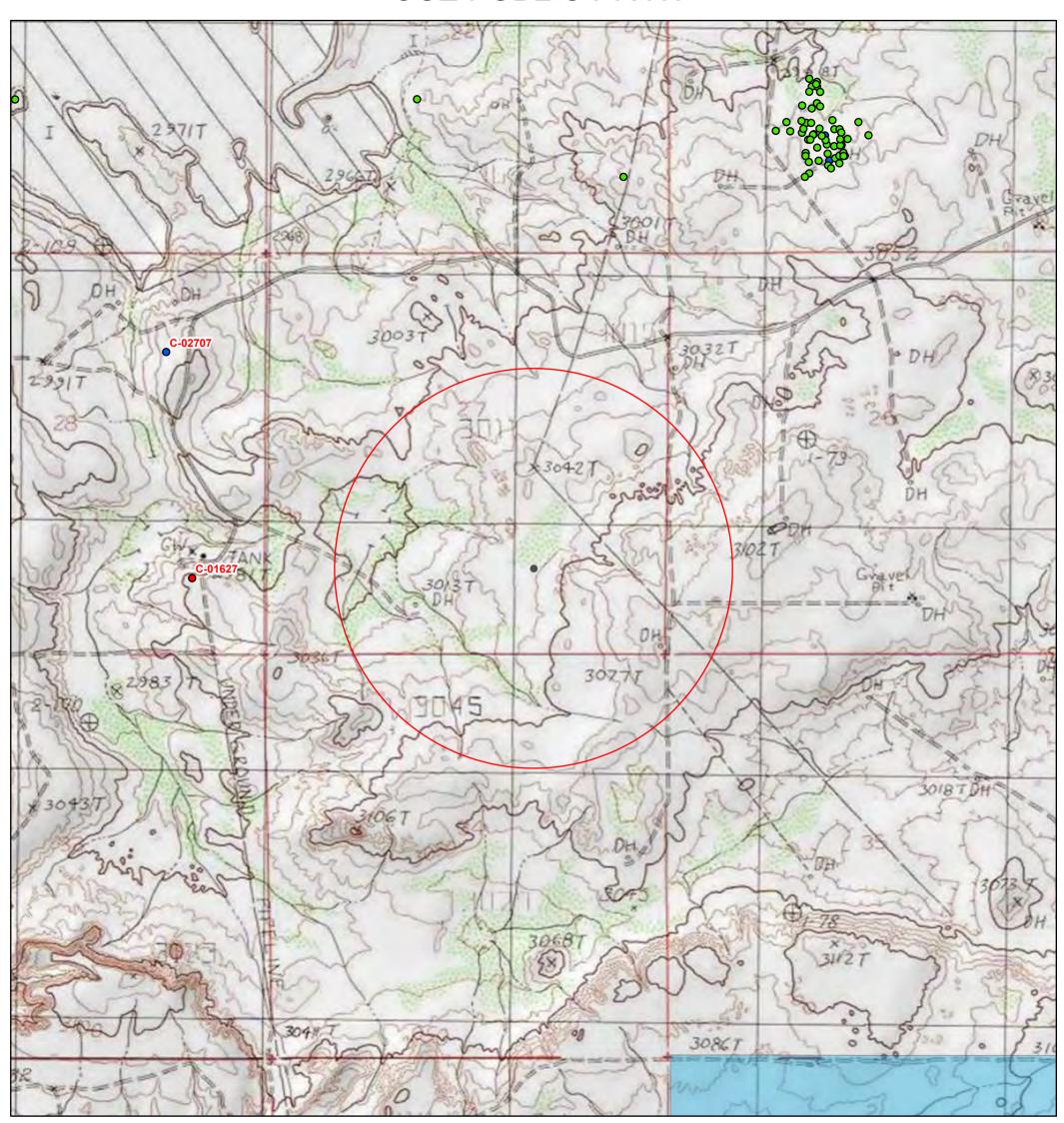
Evidence Document 2: NMOCD Oil and Gas Topo map detailing area water features Evidence Document 3: BLM Cave Karst map showing location in low potential area Evidence Document 4: FEMA demonstrating minimal flood hazards for this area

Evidence Document 5: Lab analysis for Release area, 6/16/21





OSE PUBLIC PRINT



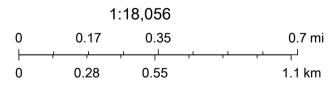
9/29/2021, 8:16:00 AM GIS WATERS PODs

- Active
- Pending
- Plugged
- OSE District Boundary

New Mexico State Trust Lands

Both Estates

SiteBoundaries



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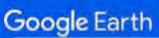


Received by OCD: 12/2/2022 2:04:46 PM Devon Energy

Papas Fritas CTB J-27-23S-29E Karst Map - Medium

Papas Fritas CTB

32.27164100, -103.9697222

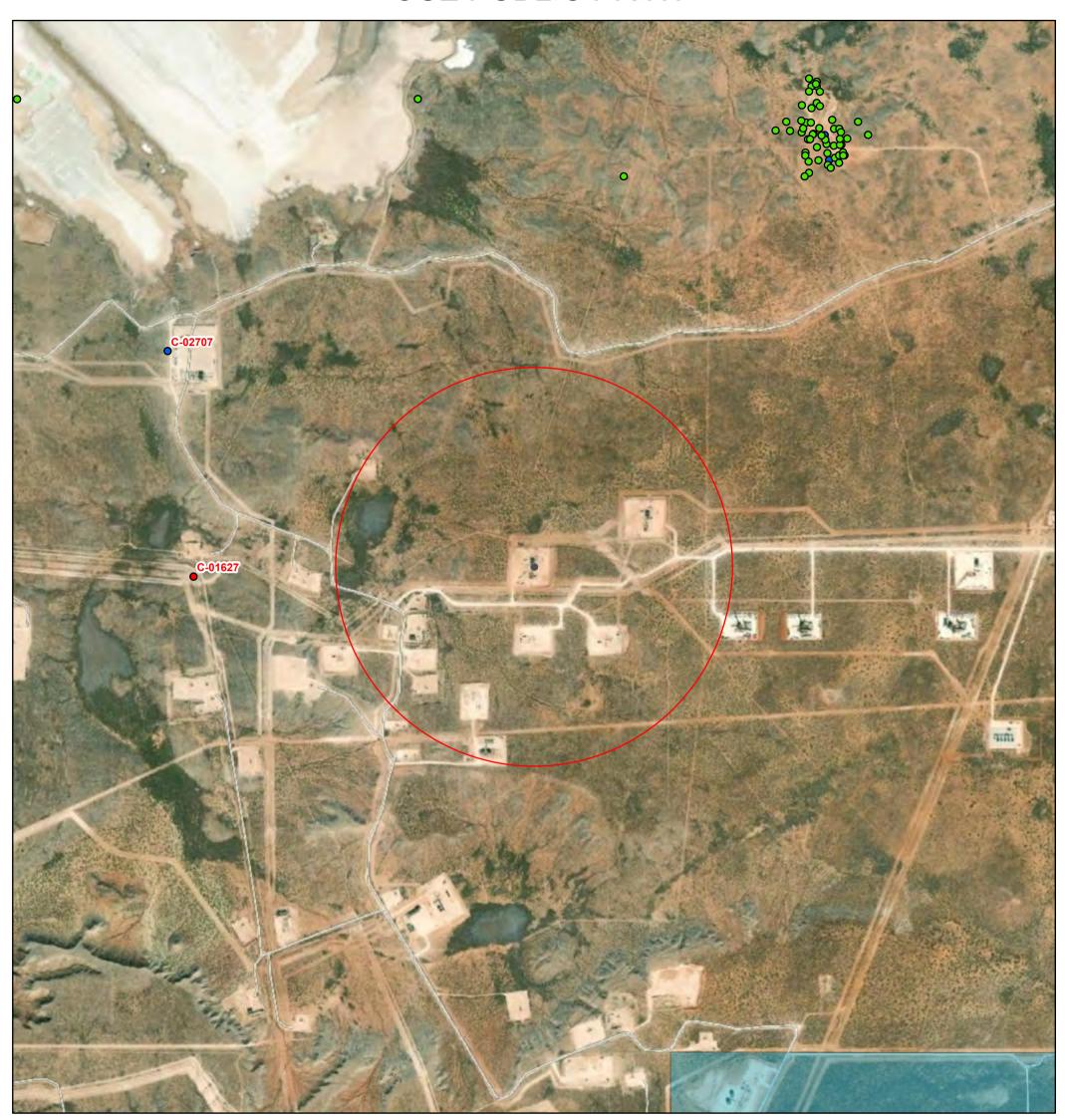


Feature 1

Legend of 380



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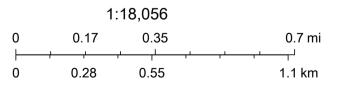
9/29/2021, 8:08:37 AM GIS WATERS PODs

- Active
- Pending
- Plugged
- OSE District Boundary

New Mexico State Trust Lands

Both Estates

SiteBoundaries



Page 376 of 380

Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar



National Water Information System: Web Interface

USGS Water Resources

Data Cate	egory:		Geographic Area:				
roun	ater	~	е	e ico	~		

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Click to hide state-specific text

•

Important: Next Generation Monitoring Location Page

Search Results -- No sites found

No sites were found for groundwater level data using your search criteria.

The sites you requested may be available offline. For more information, contact <u>USGS Water Data Inquiries</u>.

Site name contains string = 23S.29E.27

Minimum number of levels = 1

Use the "Back" button on your browser to change your search criteria.

eturn To re ious age

Received by OCD: 12/2/2022 2:04:46 PM National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLILL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped

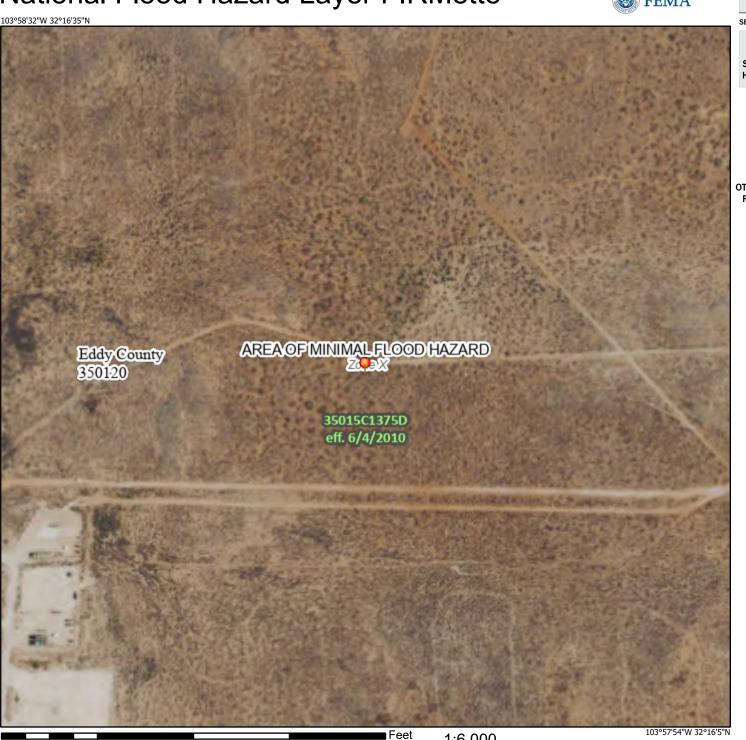
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

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

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/7/2021 at 12:16 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



2.000

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

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

Action 163424

COMMENTS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave. Oklahoma City, OK 73102	Action Number: 163424
	Action Type: [C-141] Release Corrective Action (C-141)

COMMENTS

C	Created By	Comment	Comment Date
	jharimon	Incident file is missing the complete, signed and dated Initial C-141 form.	12/6/2022

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CONDITIONS

Action 163424

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	163424
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2210924425 PAPAS FRITAS 27 CTB 1, thank you. This closure is approved.	3/7/2023