

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

State of New Mexico  
 Energy Minerals and Natural  
 Resources Department

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

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

Incident ID	nAPP2102628107
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Centennial Resource Production, Inc	OGRID: 372165
Contact Name: Jamon Hohensee	Contact Telephone: 432-241-4283
Contact email: jamon.hohensee@cdevinc.com	Incident # nAPP2102628107
Contact mailing address: 500 W. Illinois Ave, Suite 500, Midland Texas 79705	

### Location of Release Source

Latitude 32.45868 \_\_\_\_\_ Longitude -103.51118 \_\_\_\_\_  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name: Juice Bud State Com 502H	Site Type: Production Facility
Date Release Discovered: 1/22/21	API# (if applicable)

Unit Letter	Section	Township	Range	County
N	19	21S	34E	Lea

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 3	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 3	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

**Cause of Release**

2" nipple behind the union on the well head washed out causing fluids to be released to the pad area adjacent to the well head.



Incident ID	nAPP2102628107
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.

*No usable data*

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2102628107
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: Samon Hohensee Title: Sr. Environmental Analyst  
 Signature: [Handwritten Signature] Date: 8-10-21  
 email: samon.hohensee@cdevinc.com Telephone: 432-241-4283

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	nAPP2102628107
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 confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Samson Hohensee Title: Sr. Environmental Analyst  
 Signature: [Signature] Date: 8-10-21  
 email: jason.hohensee@cddevinc.com Telephone: 432-241-4283

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

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

Incident ID	nAPP2102628107
District RP	
Facility ID	
Application ID	

### Closure

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

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

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

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

Printed Name: Samon Hohensee Title: Sr. Environmental Analyst  
 Signature: [Signature] Date: 8-10-21  
 email: samon.hohensee@cdeving.com Telephone: 432.241-4283

**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: \_\_\_\_\_



## **CLOSURE REQUEST AND REMEDIATION SUMMARY REPORT**

**Centennial Resource Development, Inc.  
Juice Bud State COM 502H (Wellhead)  
Lea County, New Mexico  
Unit Letter "N", Section 19, Township 21 South, Range 34 East  
Latitude 32.45868° North, Longitude 103.51118° West  
NMOCD Reference # nAPP2102628107**

Prepared For:

**Centennial Resource Development, Inc.**  
500 W. Illinois Avenue Suite 500  
Midland, TX 79701

Prepared By:

**Etech Environmental & Safety Solutions, Inc.**  
P.O. Box 62228  
Midland, Texas 79711

**August 2021**

A handwritten signature in blue ink that reads "Wesley A. Desilets".

Wesley A. Desilets  
Project Manager

A handwritten signature in blue ink that reads "Matthew Green".

Matthew Green, P.G.  
Senior Project Manager

## TABLE OF CONTENTS

INTRODUCTION.....	1
NMOCD SITE CLASSIFICATION.....	1
SUMMARY OF SOIL REMEDIATION ACTIVITIES.....	2
SOIL DISPOSAL AND BACKFILL ACTIVITIES.....	3
SITE CLOSURE REQUEST.....	3
LIMITATIONS.....	3
DISTRIBUTION.....	4

### FIGURES

Figure 1 – Site Location Map

Figure 2 – Site Details and Sample Location Map

### TABLES

Table 1 – Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil

### APPENDICES

Appendix A – Photographic Documentation

Appendix B – Analytical Reports

Appendix C – Release Notification and Corrective Action (Form C-141)

## INTRODUCTION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Centennial Resource Development, Inc. (Centennial), has prepared this Closure Request and Remediation Summary Report for the Release Site known as Juice Bud State COM 502H (Wellhead). The legal description of the Release Site is Unit Letter "N", Section 19, Township 21 South, Range 34 East, in Lea County, New Mexico. The subject property is owned by The New Mexico State Land Office (NMSLO). The Release Site GPS coordinates are 32.45868° North and 103.51118° West. Please reference Figure 1 for the Site Location Map and Figure 2 for the Site Details and Sample Location Map.

On January 22, 2021, Centennial discovered that a release had occurred at the Juice Bud State COM 502H (Wellhead) Release Site. A two (2) inch nipple on the wellhead failed, resulting in the release of approximately three (3) barrels of crude oil and three (3) barrels of produced water with zero (0) barrels of crude oil and zero (0) barrels of produced water recovered, resulting in a net loss of approximately three (3) barrels of crude oil and three (3) barrels of produced water. On February 11, 2021, Centennial filed a *Release Notification and Corrective Action Form* (Form C-141) with the New Mexico Oil Conservation Division (NMOCD) and NMSLO documenting the release. The Form C-141 is provided as Appendix C. Photographic documentation for the site are provided as Appendix A.

## NMOCD SITE CLASSIFICATION

A search of the groundwater database maintained by United States Geological Survey (USGS) did not identify any registered water wells within a quarter (1/4) mile of the Juice Bud State COM 502H (Wellhead) Release Site. A further search of the USGS database identified the closest registered water well is USGS Well #: 322641103311201 located approximately one (1) mile southwest of the Release Site. The average depth to groundwater for USGS Well #: 322641103311201 should be encountered at approximately fifty-five (55) feet below ground surface (bgs). No water wells were observed within one thousand (1,000) feet of the Release Site. No surface water was observed within one thousand (1,000) feet of the release. Based on the NMOCD site classification system, the Juice Bud State COM 502H (Wellhead) Release Site soil remediation levels are as follows:

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 100 mg/Kg (ppm)
- Chloride – 600 mg/Kg (ppm)

## SUMMARY OF SOIL REMEDIATION ACTIVITIES

From February 24 through March 2, 2021, Etech commenced excavation activities at the Release Site utilizing a backhoe and manual means. Excavated soil was stockpiled on site awaiting disposal. Excavation activities were conducted in a manner that protected the integrity of the production equipment. Etech hand spotted around all surface equipment and excavated by hand all impacted material within two (2) feet of any production equipment. Etech, on behalf of Centennial, collected three (3) composite confirmation soil samples (BH1 @ 18", BH2 @ 18", and BH3 @ 18") from the base of the excavated area, and four (4) composite horizontal confirmation soil samples (NWW, NEW, SWW, and SEW) from the sidewalls of the excavated area. The soil samples were submitted to Permian Basin Environmental Lab, LP. (PBELAB) in Midland, Texas and analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) using EPA Method SW 846-8021B, Total Petroleum Hydrocarbons (TPH) using EPA Method SW 846-8015M, and chloride using EPA Method E 300.0. A review of laboratory analytical results indicated additional excavation activities were necessary due to elevated TPH concentrations for the composite confirmation soil samples (BH1 @ 18", BH2 @ 18", and BH3 @ 18") and for the composite horizontal confirmation soil sample (NWW). Please reference Figure 2 for site details and soil sample locations.

On March 30, 2021, following further excavation activities, three (3) composite confirmation soil samples (BH-1A @ 24", BH-2A @ 18", and BH-3A @ 24") were collected from the base of the further excavated area, and one (1) composite horizontal confirmation soil sample (NWW-A @ 12") was collected from the sidewall of the further excavated area. The samples were submitted to PBELAB for TPH analysis. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits. Please reference Figure 2 for site details and soil sampling locations.

On May 10, 2021, three (3) additional composite confirmation soil samples were collected from the base of the excavation (Comp-1, Comp-2, and Comp-3), and two (2) composite horizontal confirmation soil samples (WW-1 @ 1' and WW-2 @ 1') were collected from sidewalls of the excavation as part of a landowner confirmation sampling event. The samples were submitted to PBELAB for BTEX, TPH, and chloride analysis. A review of laboratory analytical results indicated that additional excavation activities were necessary due to elevated TPH concentrations for the composite confirmation soil sample (Comp-2) and for the composite horizontal confirmation soil sample (WW-2 @ 1'). The landowner's analytical results indicated that additional excavation activities were also necessary due to elevated TPH concentrations for the composite horizontal confirmation soil sample (WW-1 @ 1'). Please reference Figure 2 for site details and soil sampling locations.

On May 21, 2021, following further excavation activities, one (1) composite confirmation soil sample (Comp-2) was collected from the base of the further excavated area, and two (2) composite horizontal confirmation soil sample (WW-1 and WW-2) were collected from the sidewall of the further excavated area. The samples were submitted to PBELAB for TPH analysis. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits. Please reference Figure 2 for site details and soil sampling locations.

Table 1 summarizes the Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil. Analytical reports are provided as Appendix B.

## **SOIL DISPOSAL AND BACKFILL ACTIVITIES**

From June 23 through June 25, 2021, Etech transported the impacted stockpiled soil to the Sundance disposal facility in Lea County, NM. The excavated area was backfilled with non-impacted like soil from a landowner approved source and the site was contoured to fit the surrounding area.

## **SITE CLOSURE REQUEST**

Based on the analytical results, Centennial requests NMOCD grant Site Closure Status to the Juice Bud State COM 502H (Wellhead) Release Site, incident number nAPP2102628107.

## **LIMITATIONS**

Etech has prepared this Closure Request and Remediation Summary Report to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Etech has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report. This report has been prepared for the benefit of Centennial Resource Development, Inc. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Etech and/or Centennial Resource Development, Inc.

**DISTRIBUTION**

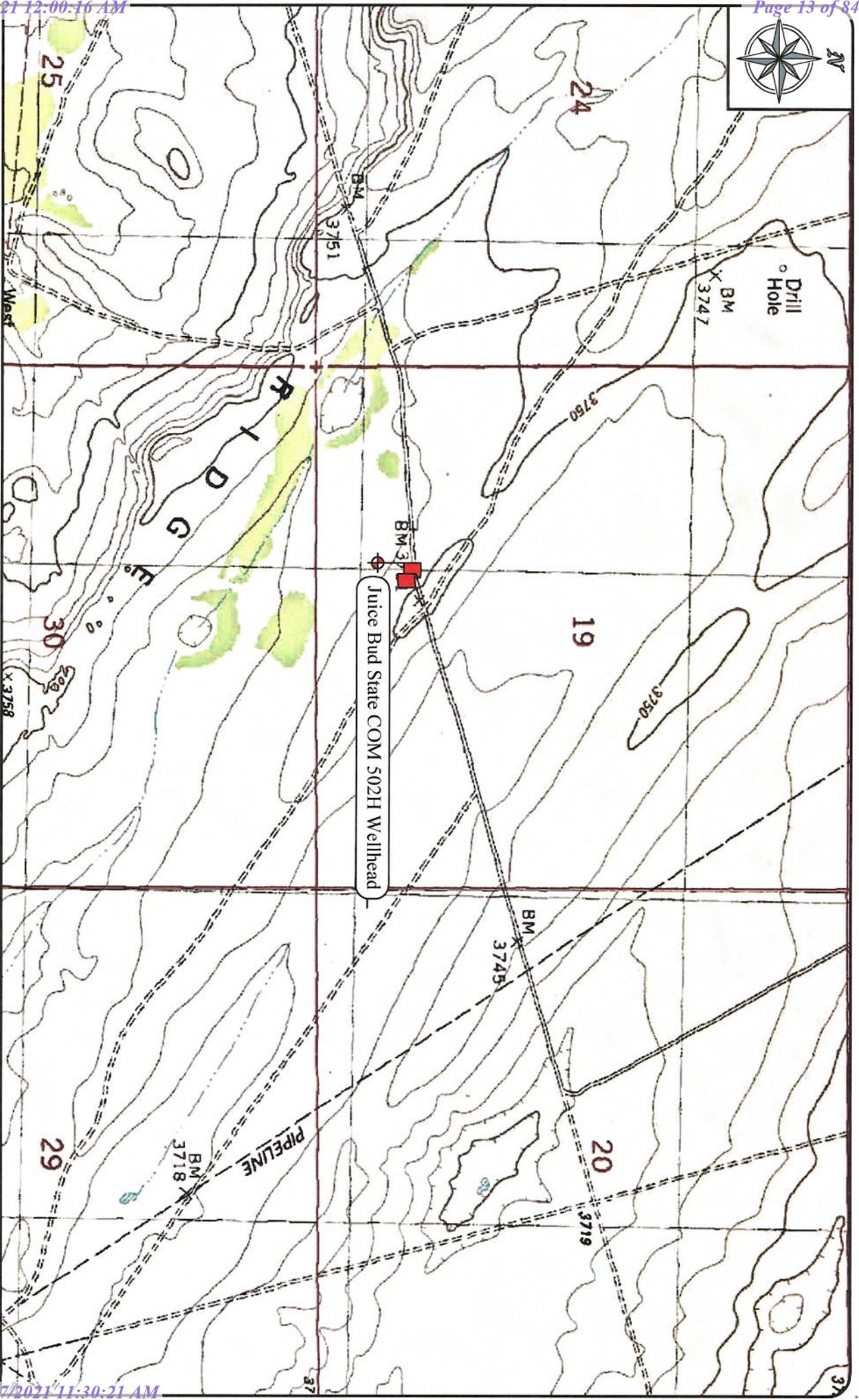
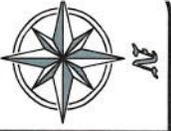
Copy 1: New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division, District 1  
1624 N. French Drive  
Hobbs, New Mexico 88210

Copy 2: Ryan Mann  
New Mexico State Land Office  
Field Operations Division  
2827 N. Dal Paso Street, Suite 117  
Hobbs, New Mexico 88240

Copy 2: Jamon Hohensee  
Centennial Resource Development, Inc.  
500 W. Illinois Avenue, Suite 500  
Midland, Texas 79701

Copy 3: Etech Environmental & Safety Solutions, Inc.  
P.O. Box 62228  
Midland, Texas 79711

Site - Juice Bud State COM 502H Wellhead  
 Site Location Map  
 Centennial Resource Development, Inc.  
 Lea County, NM  
 N 32.45868°, W 103.51118°  
 July 2021



Legend



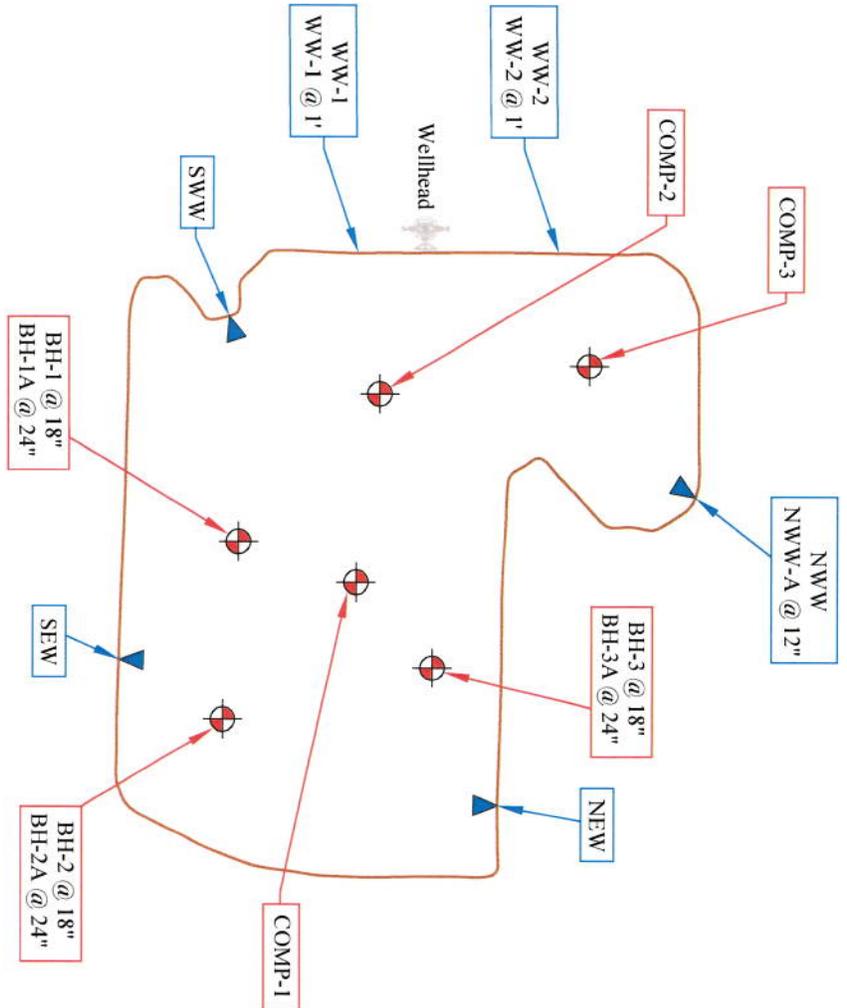
**ETECH**  
 Environmental & Safety Solutions, Inc.

CDEVID No.: 38806

Figure 1



Site - Juice Bud State COM 502H Wellhead  
Site Details and Sample Location Map  
Centennial Resource Development, Inc.  
Lea County, NM  
N 32.45868°, W 103.51118°  
July 2021



Legend

- ⊕ = Bottom Hole Sample Points
- ▲ = Side Wall Sample Points
- = Excavation Perimeter

Notes:  
 ▶ All samples are 5 point composites  
 ▶ All samples points are approximate



**eTECH**  
 Environmental & Safety Solutions, Inc.

CDEVID No.: 38806

Figure 2

**TABLE 1**  
**CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL**  
**CENTENNIAL RESOURCE DEVELOPMENT, INC.**  
**JUICE BUD STATE COM 502H WELLHEAD RELEASE**  
**LEA COUNTY, NEW MEXICO**

*All concentrations are reported in mg/Kg*

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021B						METHOD: SW 8015M					E 300.0	
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C <sub>6</sub> -C <sub>12</sub>	TPH DRO C <sub>12</sub> -C <sub>28</sub>	TPH ORO C <sub>28</sub> -C <sub>35</sub>	TOTAL TPH C <sub>6</sub> -C <sub>35</sub>	CHLORIDE	
Limits		10 mg/Kg							50 mg/Kg				100 mg/Kg	600 mg/Kg
<b>Bottom Hole Sample Results</b>														
BH1 @ 18"	3/2/2021	0.00428	0.0155	0.00670	0.0369	0.0122	0.0491	0.07558	150	2,260	380	<b>2,790</b>	96.9	
BH-1A @ 24"	3/30/2021	-	-	-	-	-	-	-	ND	50.9	26.4	77.3	-	
BH2 @ 18"	3/2/2021	0.00143	0.00910	0.00164	0.00495	0.00107	0.00602	0.01819	30.5	959	185	<b>1,174.5</b>	127	
BH-2A @ 24"	3/30/2021	-	-	-	-	-	-	-	ND	ND	ND	ND	-	
BH3 @ 18"	3/2/2021	0.00183	0.0117	0.00238	0.00779	0.00306	0.01085	0.02676	33.9	1,150	185	<b>1,368.9</b>	67.1	
BH-3A @ 24"	3/30/2021	-	-	-	-	-	-	-	ND	ND	ND	ND	-	
<b>Sidewall Sample Results</b>														
NWW	3/2/2021	ND	0.00138	ND	ND	ND	ND	0.00138	ND	88.0	26.4	<b>114.4</b>	164	
NWW-A @ 12"	3/30/2021	-	-	-	-	-	-	-	ND	ND	ND	ND	-	
NEW	3/2/2021	ND	0.00128	ND	ND	ND	ND	0.00128	ND	72.6	ND	72.6	39.1	
SWW	3/2/2021	ND	0.00179	ND	ND	ND	ND	0.00179	ND	ND	ND	ND	56.7	
SEW	3/2/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	107	
Comp-1	5/10/2021	ND	ND	ND	ND	ND	ND	ND	ND	32.7	ND	32.7	85.9	
Comp-2	5/10/2021	ND	ND	ND	ND	ND	ND	ND	ND	291	38.9	<b>329.9</b>	113	
Comp-2	5/21/2021	-	-	-	-	-	-	-	ND	42.2	ND	42.2	-	
Comp-3	5/10/2021	ND	ND	ND	ND	ND	ND	ND	ND	35.0	ND	35.0	55.6	
WW-1 @ 1'	5/10/2021	ND	ND	ND	ND	ND	ND	ND	ND	51.8	ND	51.8	151	
WW-1	5/21/2021	-	-	-	-	-	-	-	ND	ND	ND	ND	-	
WW-2 @ 1'	5/10/2021	ND	ND	ND	ND	ND	ND	ND	ND	147	ND	<b>147</b>	437	
WW-2	5/21/2021	-	-	-	-	-	-	-	ND	ND	ND	ND	-	

**Bold and Yellow Highlighted indicates analyte above NMOCD regulatory limit**  
**ND indicates analyte below laboratory method detection limit**

**Project Name:** Juice Bud State COM 502H Wellhead  
**Project No:** 13717

**Photographic Documentation**



**Project Name:** Juice Bud State COM 502H Wellhead  
**Project No:** 13717

**Photographic Documentation**

<b>Photo No:</b> 3.	 A wide-angle photograph showing an industrial site under a clear blue sky. In the foreground, there is a large, shallow excavation filled with light-colored gravel and dirt. A green pipe runs across the excavation. In the background, several large green cylindrical tanks are visible, along with various pipes and structures. A white truck is parked on the right side of the site.
<b>Direction Taken:</b> Northwest	
<b>Description:</b> View of the excavated area.	

<b>Photo No:</b> 4.	 A photograph showing the same industrial site from a different angle. The foreground is a dirt and gravel area. In the middle ground, there is a large excavation with a metal structure on the right side. The background shows a flat landscape with several utility poles under a cloudy sky.
<b>Direction Taken:</b> Southeast	
<b>Description:</b> View of the excavated area.	

**Project Name:** Juice Bud State COM 502H Wellhead  
**Project No:** 13717

**Photographic Documentation**



**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Matt Green

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100

Odessa, TX 79765

Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717

Location: NM

Lab Order Number: 1C04015



**NELAP/TCEQ # T104704516-17-8**

Report Date: 03/14/21

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH1 @ 18"	1C04015-01	Soil	03/02/21 08:05	03-04-2021 15:03
BH2 @ 18"	1C04015-02	Soil	03/02/21 08:10	03-04-2021 15:03
BH3 @ 18"	1C04015-03	Soil	03/02/21 08:15	03-04-2021 15:03
NWW	1C04015-04	Soil	03/02/21 09:35	03-04-2021 15:03
NEW	1C04015-05	Soil	03/02/21 09:40	03-04-2021 15:03
SWW	1C04015-06	Soil	03/02/21 09:45	03-04-2021 15:03
SEW	1C04015-07	Soil	03/02/21 09:50	03-04-2021 15:03

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**BH1 @ 18"**  
**1C04015-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00428</b>	0.00103	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<b>Toluene</b>	<b>0.0155</b>	0.00103	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00670</b>	0.00103	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.0369</b>	0.00206	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<b>Xylene (o)</b>	<b>0.0122</b>	0.00103	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	80-120		P1C0506	03/05/21	03/05/21	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		113 %	80-120		P1C0506	03/05/21	03/05/21	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>96.9</b>	1.03	mg/kg dry	1	P1C1003	03/10/21	03/11/21	EPA 300.0	
<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P1C0603	03/08/21	03/08/21	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>150</b>	25.8	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
<b>&gt;C12-C28</b>	<b>2260</b>	25.8	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
<b>&gt;C28-C35</b>	<b>380</b>	25.8	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		122 %	70-130		P1C0508	03/05/21	03/05/21	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		139 %	70-130		P1C0508	03/05/21	03/05/21	TPH 8015M	S-GC
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>2790</b>	25.8	mg/kg dry	1	[CALC]	03/05/21	03/05/21	calc	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**BH2 @ 18"**  
**1C04015-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00143</b>	0.00106	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<b>Toluene</b>	<b>0.00910</b>	0.00106	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00164</b>	0.00106	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00495</b>	0.00213	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00107</b>	0.00106	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		107 %	80-120		P1C0506	03/05/21	03/05/21	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	80-120		P1C0506	03/05/21	03/05/21	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>127</b>	1.06	mg/kg dry	1	P1C1003	03/10/21	03/11/21	EPA 300.0	
<b>% Moisture</b>	<b>6.0</b>	0.1	%	1	P1C0603	03/08/21	03/08/21	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>30.5</b>	26.6	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
<b>&gt;C12-C28</b>	<b>959</b>	26.6	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
<b>&gt;C28-C35</b>	<b>185</b>	26.6	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		125 %	70-130		P1C0508	03/05/21	03/05/21	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		141 %	70-130		P1C0508	03/05/21	03/05/21	TPH 8015M	S-GC
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1170</b>	26.6	mg/kg dry	1	[CALC]	03/05/21	03/05/21	calc	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**BH3 @ 18"**  
**1C04015-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

<b>Benzene</b>	<b>0.00183</b>	0.00106	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<b>Toluene</b>	<b>0.0117</b>	0.00106	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<b>Ethylbenzene</b>	<b>0.00238</b>	0.00106	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00779</b>	0.00213	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00306</b>	0.00106	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		111 %	80-120		P1C0506	03/05/21	03/05/21	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	80-120		P1C0506	03/05/21	03/05/21	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>67.1</b>	1.06	mg/kg dry	1	P1C1003	03/10/21	03/11/21	EPA 300.0	
<b>% Moisture</b>	<b>6.0</b>	0.1	%	1	P1C0603	03/08/21	03/08/21	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

<b>C6-C12</b>	<b>33.9</b>	26.6	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
<b>&gt;C12-C28</b>	<b>1150</b>	26.6	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
<b>&gt;C28-C35</b>	<b>185</b>	26.6	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		118 %	70-130		P1C0508	03/05/21	03/05/21	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		133 %	70-130		P1C0508	03/05/21	03/05/21	TPH 8015M	S-GC
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>1370</b>	26.6	mg/kg dry	1	[CALC]	03/05/21	03/05/21	calc	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**NWW**  
**1C04015-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<b>Toluene</b>	<b>0.00138</b>	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	80-120		P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	80-120		P1C0506	03/05/21	03/05/21	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>164</b>	1.05	mg/kg dry	1	P1C1003	03/10/21	03/11/21	EPA 300.0	
<b>% Moisture</b>	<b>5.0</b>	0.1	%	1	P1C0603	03/08/21	03/08/21	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
<b>&gt;C12-C28</b>	<b>88.0</b>	26.3	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
<b>&gt;C28-C35</b>	<b>26.4</b>	26.3	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
Surrogate: 1-Chlorooctane		120 %	70-130		P1C0508	03/05/21	03/05/21	TPH 8015M	
Surrogate: o-Terphenyl		136 %	70-130		P1C0508	03/05/21	03/05/21	TPH 8015M	S-GC
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>114</b>	26.3	mg/kg dry	1	[CALC]	03/05/21	03/05/21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**NEW**  
**1C04015-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<b>Toluene</b>	<b>0.00128</b>	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	80-120		P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	80-120		P1C0506	03/05/21	03/05/21	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>39.1</b>	1.05	mg/kg dry	1	P1C1101	03/11/21	03/11/21	EPA 300.0	
<b>% Moisture</b>	<b>5.0</b>	0.1	%	1	P1C0603	03/08/21	03/08/21	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
<b>&gt;C12-C28</b>	<b>72.6</b>	26.3	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1C0508	03/05/21	03/05/21	TPH 8015M	
Surrogate: 1-Chlorooctane		116 %	70-130		P1C0508	03/05/21	03/05/21	TPH 8015M	
Surrogate: o-Terphenyl		131 %	70-130		P1C0508	03/05/21	03/05/21	TPH 8015M	S-GC
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>72.6</b>	26.3	mg/kg dry	1	[CALC]	03/05/21	03/05/21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**SWW**  
**1C04015-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
<b>Toluene</b>	<b>0.00179</b>	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		118 %	80-120		P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		107 %	80-120		P1C0506	03/05/21	03/05/21	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>56.7</b>	1.05	mg/kg dry	1	P1C1101	03/11/21	03/11/21	EPA 300.0	
<b>% Moisture</b>	<b>5.0</b>	0.1	%	1	P1C0603	03/08/21	03/08/21	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P1C0511	03/05/21	03/07/21	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1C0511	03/05/21	03/07/21	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1C0511	03/05/21	03/07/21	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P1C0511	03/05/21	03/07/21	TPH 8015M	
Surrogate: o-Terphenyl		124 %	70-130		P1C0511	03/05/21	03/07/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/05/21	03/07/21	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**SEW**  
**1C04015-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	80-120		P1C0506	03/05/21	03/05/21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		117 %	80-120		P1C0506	03/05/21	03/05/21	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	107	1.05	mg/kg dry	1	P1C1101	03/11/21	03/11/21	EPA 300.0	
% Moisture	5.0	0.1	%	1	P1C0603	03/08/21	03/08/21	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P1C0511	03/05/21	03/07/21	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1C0511	03/05/21	03/07/21	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1C0511	03/05/21	03/07/21	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P1C0511	03/05/21	03/07/21	TPH 8015M	
Surrogate: o-Terphenyl		125 %	70-130		P1C0511	03/05/21	03/07/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/05/21	03/07/21	calc	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch PIC0506 - \*\*\* DEFAULT PREP \*\*\*****Blank (PIC0506-BLK1)**

Prepared &amp; Analyzed: 03/05/21

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	80-120			

**LCS (PIC0506-BS1)**

Prepared &amp; Analyzed: 03/05/21

Benzene	0.102	0.00100	mg/kg wet	0.100		102	70-130			
Toluene	0.111	0.00100	"	0.100		111	70-130			
Ethylbenzene	0.117	0.00100	"	0.100		117	70-130			
Xylene (p/m)	0.238	0.00200	"	0.200		119	70-130			
Xylene (o)	0.120	0.00100	"	0.100		120	70-130			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.120		106	80-120			

**LCS Dup (PIC0506-BS1)**

Prepared &amp; Analyzed: 03/05/21

Benzene	0.0992	0.00100	mg/kg wet	0.100		99.2	70-130	2.71	20	
Toluene	0.110	0.00100	"	0.100		110	70-130	1.07	20	
Ethylbenzene	0.112	0.00100	"	0.100		112	70-130	4.14	20	
Xylene (p/m)	0.237	0.00200	"	0.200		118	70-130	0.652	20	
Xylene (o)	0.111	0.00100	"	0.100		111	70-130	7.47	20	
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		103	80-120			

**Calibration Check (PIC0506-CCV1)**

Prepared &amp; Analyzed: 03/05/21

Benzene	0.0927	0.00100	mg/kg wet	0.100		92.7	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.240	0.00200	"	0.200		120	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		105	75-125			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.120		108	75-125			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch PIC0506 - \*\*\* DEFAULT PREP \*\*\*****Calibration Check (PIC0506-CCV2)**

Prepared &amp; Analyzed: 03/05/21

Benzene	0.0967	0.00100	mg/kg wet	0.100		96.7	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.234	0.00200	"	0.200		117	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.120		106	75-125			
Surrogate: 4-Bromofluorobenzene	0.136		"	0.120		113	75-125			

**Calibration Check (PIC0506-CCV3)**

Prepared &amp; Analyzed: 03/05/21

Benzene	0.0954	0.00100	mg/kg wet	0.100		95.4	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.120	0.00100	"	0.100		120	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		118	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 4-Bromofluorobenzene	0.138		"	0.120		115	75-125			

**Matrix Spike (PIC0506-MS1)**

Source: 1C04015-01

Prepared &amp; Analyzed: 03/05/21

Benzene	0.0692	0.00103	mg/kg dry	0.103	0.00428	63.0	80-120			QM-07
Toluene	0.0619	0.00103	"	0.103	0.0155	45.1	80-120			QM-07
Ethylbenzene	0.0400	0.00103	"	0.103	0.00670	32.3	80-120			QM-07
Xylene (p/m)	0.0914	0.00206	"	0.206	0.0369	26.4	80-120			QM-07
Xylene (o)	0.0539	0.00103	"	0.103	0.0122	40.5	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.118		"	0.124		95.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.124		103	80-120			

**Matrix Spike Dup (PIC0506-MSD1)**

Source: 1C04015-01

Prepared &amp; Analyzed: 03/05/21

Benzene	0.0847	0.00103	mg/kg dry	0.103	0.00428	78.0	80-120	21.3	20	QM-07
Toluene	0.0791	0.00103	"	0.103	0.0155	61.7	80-120	31.2	20	QM-07
Ethylbenzene	0.0564	0.00103	"	0.103	0.00670	48.2	80-120	39.5	20	QM-07
Xylene (p/m)	0.119	0.00206	"	0.206	0.0369	39.6	80-120	39.9	20	QM-07
Xylene (o)	0.0686	0.00103	"	0.103	0.0122	54.7	80-120	29.9	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.133		"	0.124		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.127		"	0.124		103	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P1C0603 - *** DEFAULT PREP ***</b>										
<b>Blank (P1C0603-BLK1)</b>										
Prepared & Analyzed: 03/08/21										
% Moisture	ND	0.1	%							
<b>Batch P1C1003 - *** DEFAULT PREP ***</b>										
<b>Blank (P1C1003-BLK1)</b>										
Prepared: 03/10/21 Analyzed: 03/11/21										
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P1C1003-BS1)</b>										
Prepared: 03/10/21 Analyzed: 03/11/21										
Chloride	388	1.00	mg/kg wet	400		97.1	90-110			
<b>LCS Dup (P1C1003-BSD1)</b>										
Prepared: 03/10/21 Analyzed: 03/11/21										
Chloride	383	1.00	mg/kg wet	400		95.9	90-110	1.29	20	
<b>Calibration Check (P1C1003-CCV1)</b>										
Prepared: 03/10/21 Analyzed: 03/11/21										
Chloride	18.9		mg/kg	20.0		94.6	90-110			
<b>Calibration Check (P1C1003-CCV2)</b>										
Prepared: 03/10/21 Analyzed: 03/11/21										
Chloride	18.3		mg/kg	20.0		91.6	90-110			
<b>Calibration Check (P1C1003-CCV3)</b>										
Prepared: 03/10/21 Analyzed: 03/11/21										
Chloride	18.4		mg/kg	20.0		92.1	90-110			
<b>Matrix Spike (P1C1003-MS1)</b>										
Source: 1C09008-17 Prepared: 03/10/21 Analyzed: 03/11/21										
Chloride	15400	52.6	mg/kg dry	5260	10500	93.5	80-120			
<b>Matrix Spike (P1C1003-MS2)</b>										
Source: 1C04013-09 Prepared: 03/10/21 Analyzed: 03/11/21										
Chloride	699	1.01	mg/kg dry	505	373	64.6	80-120			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch PIC1003 - *** DEFAULT PREP ***</b>										
<b>Matrix Spike Dup (PIC1003-MSD1)</b>		<b>Source: 1C09008-17</b>			Prepared: 03/10/21		Analyzed: 03/11/21			
Chloride	15700	52.6	mg/kg dry	5260	10500	98.8	80-120	1.79	20	
<b>Matrix Spike Dup (PIC1003-MSD2)</b>		<b>Source: 1C04013-09</b>			Prepared: 03/10/21		Analyzed: 03/11/21			
Chloride	744	1.01	mg/kg dry	505	373	73.6	80-120	6.25	20	
<b>Batch PIC1101 - *** DEFAULT PREP ***</b>										
<b>Blank (PIC1101-BLK1)</b>					Prepared & Analyzed: 03/11/21					
Chloride	ND	1.00	mg/kg wet							
<b>LCS (PIC1101-BS1)</b>					Prepared & Analyzed: 03/11/21					
Chloride	385	1.00	mg/kg wet	400		96.4	90-110			
<b>LCS Dup (PIC1101-BSD1)</b>					Prepared & Analyzed: 03/11/21					
Chloride	388	1.00	mg/kg wet	400		97.1	90-110	0.773	20	
<b>Calibration Check (PIC1101-CCV1)</b>					Prepared & Analyzed: 03/11/21					
Chloride	18.5		mg/kg	20.0		92.3	90-110			
<b>Calibration Check (PIC1101-CCV2)</b>					Prepared & Analyzed: 03/11/21					
Chloride	18.2		mg/kg	20.0		91.1	90-110			
<b>Calibration Check (PIC1101-CCV3)</b>					Prepared & Analyzed: 03/11/21					
Chloride	18.6		mg/kg	20.0		92.9	90-110			
<b>Matrix Spike (PIC1101-MS1)</b>		<b>Source: 1C04015-05</b>			Prepared & Analyzed: 03/11/21					
Chloride	542	1.05	mg/kg dry	526	39.1	95.6	80-120			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
 Project Number: 13717  
 Project Manager: Matt Green

Fax: (432) 563-2213

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch PIC1101 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike (PIC1101-MS2)</b>		<b>Source: 1C04016-08</b>			Prepared & Analyzed: 03/11/21					
Chloride	1340	1.03	mg/kg dry	515	954	75.4	80-120			
<b>Matrix Spike Dup (PIC1101-MSD1)</b>		<b>Source: 1C04015-05</b>			Prepared & Analyzed: 03/11/21					
Chloride	504	1.05	mg/kg dry	526	39.1	88.4	80-120	7.24	20	
<b>Matrix Spike Dup (PIC1101-MSD2)</b>		<b>Source: 1C04016-08</b>			Prepared & Analyzed: 03/11/21					
Chloride	1400	1.03	mg/kg dry	515	954	86.6	80-120	4.23	20	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P1C0508 - TX 1005</b>										
<b>Blank (P1C0508-BLK1)</b>										
Prepared & Analyzed: 03/05/21										
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	56.6		"	50.0		113	70-130			
<b>LCS (P1C0508-BS1)</b>										
Prepared & Analyzed: 03/05/21										
C6-C12	977	25.0	mg/kg wet	1000		97.7	75-125			
>C12-C28	1090	25.0	"	1000		109	75-125			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	60.8		"	50.0		122	70-130			
<b>LCS Dup (P1C0508-BSD1)</b>										
Prepared & Analyzed: 03/05/21										
C6-C12	974	25.0	mg/kg wet	1000		97.4	75-125	0.339	20	
>C12-C28	1060	25.0	"	1000		106	75-125	2.00	20	
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	58.7		"	50.0		117	70-130			
<b>Calibration Check (P1C0508-CCV1)</b>										
Prepared & Analyzed: 03/05/21										
C6-C12	486	25.0	mg/kg wet	500		97.2	85-115			
>C12-C28	529	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	58.4		"	50.0		117	70-130			
<b>Calibration Check (P1C0508-CCV2)</b>										
Prepared & Analyzed: 03/05/21										
C6-C12	488	25.0	mg/kg wet	500		97.5	85-115			
>C12-C28	501	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	55.4		"	50.0		111	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch P1C0508 - TX 1005**

<b>Matrix Spike (P1C0508-MS1)</b>	<b>Source: 1C04005-02</b>			<b>Prepared &amp; Analyzed: 03/05/21</b>						
C6-C12	856	27.2	mg/kg dry	1090	19.8	76.9	75-125			
>C12-C28	1110	27.2	"	1090	900	19.5	75-125			QM-05
Surrogate: 1-Chlorooctane	102		"	109		94.0	70-130			
Surrogate: o-Terphenyl	56.5		"	54.3		104	70-130			

<b>Matrix Spike Dup (P1C0508-MSD1)</b>	<b>Source: 1C04005-02</b>			<b>Prepared &amp; Analyzed: 03/05/21</b>						
C6-C12	865	27.2	mg/kg dry	1090	19.8	77.8	75-125	1.13	20	
>C12-C28	1140	27.2	"	1090	900	21.6	75-125	10.2	20	QM-05
Surrogate: 1-Chlorooctane	103		"	109		94.5	70-130			
Surrogate: o-Terphenyl	56.8		"	54.3		105	70-130			

**Batch P1C0511 - TX 1005**

<b>Blank (P1C0511-BLK1)</b>	<b>Prepared: 03/05/21 Analyzed: 03/07/21</b>									
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	55.3		"	50.0		111	70-130			

<b>LCS (P1C0511-BS1)</b>	<b>Prepared: 03/05/21 Analyzed: 03/07/21</b>									
C6-C12	926	25.0	mg/kg wet	1000		92.6	75-125			
>C12-C28	1010	25.0	"	1000		101	75-125			
Surrogate: 1-Chlorooctane	98.5		"	100		98.5	70-130			
Surrogate: o-Terphenyl	53.0		"	50.0		106	70-130			

<b>LCS Dup (P1C0511-BSD1)</b>	<b>Prepared: 03/05/21 Analyzed: 03/07/21</b>									
C6-C12	943	25.0	mg/kg wet	1000		94.3	75-125	1.85	20	
>C12-C28	1030	25.0	"	1000		103	75-125	1.21	20	
Surrogate: 1-Chlorooctane	99.1		"	100		99.1	70-130			
Surrogate: o-Terphenyl	56.9		"	50.0		114	70-130			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch PIC0511 - TX 1005****Calibration Check (PIC0511-CCV1)**

Prepared: 03/05/21 Analyzed: 03/07/21

C6-C12	467	25.0	mg/kg wet	500		93.5	85-115			
>C12-C28	477	25.0	"	500		95.3	85-115			
Surrogate: 1-Chlorooctane	89.7		"	100		89.7	70-130			
Surrogate: o-Terphenyl	49.1		"	50.0		98.1	70-130			

**Calibration Check (PIC0511-CCV2)**

Prepared: 03/05/21 Analyzed: 03/07/21

C6-C12	449	25.0	mg/kg wet	500		89.7	85-115			
>C12-C28	479	25.0	"	500		95.8	85-115			
Surrogate: 1-Chlorooctane	88.0		"	100		88.0	70-130			
Surrogate: o-Terphenyl	48.2		"	50.0		96.5	70-130			

**Matrix Spike (PIC0511-MS1)**

Source: 1C04016-16

Prepared: 03/05/21 Analyzed: 03/07/21

C6-C12	942	26.3	mg/kg dry	1050	ND	89.5	75-125			
>C12-C28	1010	26.3	"	1050	ND	96.0	75-125			
Surrogate: 1-Chlorooctane	109		"	105		103	70-130			
Surrogate: o-Terphenyl	67.8		"	52.6		129	70-130			

**Matrix Spike Dup (PIC0511-MSD1)**

Source: 1C04016-16

Prepared: 03/05/21 Analyzed: 03/07/21

C6-C12	915	26.3	mg/kg dry	1050	ND	87.0	75-125	2.84	20	
>C12-C28	993	26.3	"	1050	ND	94.3	75-125	1.76	20	
Surrogate: 1-Chlorooctane	110		"	105		105	70-130			
Surrogate: o-Terphenyl	62.7		"	52.6		119	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**Notes and Definitions**

- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- ROI Received on Ice
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- BULK Samples received in Bulk soil containers
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:  Date: 3/14/2021

Brent Barron, Laboratory Director/Technical Director

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.



**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Matt Green

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100

Odessa, TX 79765

Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717

Location: Lea County, NM

Lab Order Number: 1D05013



**NELAP/TCEQ # T104704516-17-8**

Report Date: 04/09/21

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1A @ 24"	1D05013-01	Soil	03/30/21 13:00	04-05-2021 16:34
BH-2A @ 24"	1D05013-02	Soil	03/30/21 13:05	04-05-2021 16:34
BH-3A @ 24"	1D05013-03	Soil	03/30/21 13:10	04-05-2021 16:34
NWW-4A @ 12"	1D05013-04	Soil	03/30/21 13:15	04-05-2021 16:34

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
 Project Number: 13717  
 Project Manager: Matt Green

Fax: (432) 563-2213

**BH-1A @ 24"**  
**1D05013-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>2.0</b>	0.1	%	1	P1D0604	04/06/21	04/06/21	ASTM D2216	
-------------------	------------	-----	---	---	---------	----------	----------	------------	--

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.5	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M	
>C12-C28	<b>50.9</b>	25.5	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M	
>C28-C35	<b>26.4</b>	25.5	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M	
Surrogate: 1-Chlorooctane		98.8 %	70-130		P1D0701	04/07/21	04/07/21	TPH 8015M	
Surrogate: o-Terphenyl		98.9 %	70-130		P1D0701	04/07/21	04/07/21	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>77.3</b>	25.5	mg/kg dry	1	[CALC]	04/07/21	04/07/21	calc	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
 Project Number: 13717  
 Project Manager: Matt Green

Fax: (432) 563-2213

**BH-2A @ 24"**  
**1D05013-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>5.0</b>	0.1	%	1	P1D0604	04/06/21	04/06/21	ASTM D2216	
-------------------	------------	-----	---	---	---------	----------	----------	------------	--

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P1D0701	04/07/21	04/07/21	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P1D0701	04/07/21	04/07/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/07/21	04/07/21	calc	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
 Project Number: 13717  
 Project Manager: Matt Green

Fax: (432) 563-2213

**BH-3A @ 24"**  
**1D05013-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>5.0</b>	0.1	%	1	P1D0604	04/06/21	04/06/21	ASTM D2216	
-------------------	------------	-----	---	---	---------	----------	----------	------------	--

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P1D0701	04/07/21	04/07/21	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P1D0701	04/07/21	04/07/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/07/21	04/07/21	calc	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
 Project Number: 13717  
 Project Manager: Matt Green

Fax: (432) 563-2213

**NWW-4A @ 12"**  
**1D05013-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>5.0</b>	0.1	%	1	P1D0604	04/06/21	04/06/21	ASTM D2216	
-------------------	------------	-----	---	---	---------	----------	----------	------------	--

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P1D0701	04/07/21	04/07/21	TPH 8015M	
Surrogate: 1-Chlorooctane		95.3 %		70-130	P1D0701	04/07/21	04/07/21	TPH 8015M	
Surrogate: o-Terphenyl		96.6 %		70-130	P1D0701	04/07/21	04/07/21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	04/07/21	04/07/21	calc	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
 Project Number: 13717  
 Project Manager: Matt Green

Fax: (432) 563-2213

**General Chemistry Parameters by EPA / Standard Methods - Quality Control  
 Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P1D0604 - *** DEFAULT PREP ***</b>										
<b>Blank (P1D0604-BLK1)</b> Prepared & Analyzed: 04/06/21										
% Moisture	ND	0.1	%							
<b>Blank (P1D0604-BLK2)</b> Prepared & Analyzed: 04/06/21										
% Moisture	ND	0.1	%							
<b>Duplicate (P1D0604-DUP1)</b> Source: 1D05004-09 Prepared & Analyzed: 04/06/21										
% Moisture	3.0	0.1	%		4.0			28.6	20	
<b>Duplicate (P1D0604-DUP2)</b> Source: 1D05006-01 Prepared & Analyzed: 04/06/21										
% Moisture	2.0	0.1	%		1.0			66.7	20	
<b>Duplicate (P1D0604-DUP3)</b> Source: 1D05011-02 Prepared & Analyzed: 04/06/21										
% Moisture	1.0	0.1	%		2.0			66.7	20	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch PID0701 - TX 1005</b>										
<b>Blank (PID0701-BLK1)</b>										
Prepared & Analyzed: 04/07/21										
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	98.2		"	100		98.2	70-130			
Surrogate: o-Terphenyl	49.5		"	50.0		98.9	70-130			
<b>LCS (PID0701-BS1)</b>										
Prepared & Analyzed: 04/07/21										
C6-C12	1020	25.0	mg/kg wet	1000		102	75-125			
>C12-C28	1050	25.0	"	1000		105	75-125			
Surrogate: 1-Chlorooctane	99.6		"	100		99.6	70-130			
Surrogate: o-Terphenyl	50.6		"	50.0		101	70-130			
<b>LCS Dup (PID0701-BSD1)</b>										
Prepared & Analyzed: 04/07/21										
C6-C12	1010	25.0	mg/kg wet	1000		101	75-125	0.932	20	
>C12-C28	1030	25.0	"	1000		103	75-125	1.47	20	
Surrogate: 1-Chlorooctane	99.7		"	100		99.7	70-130			
Surrogate: o-Terphenyl	50.6		"	50.0		101	70-130			
<b>Calibration Check (PID0701-CCV1)</b>										
Prepared & Analyzed: 04/07/21										
C6-C12	505	25.0	mg/kg wet	500		101	85-115			
>C12-C28	519	25.0	"	500		104	85-115			
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	49.9		"	50.0		99.7	70-130			
<b>Calibration Check (PID0701-CCV2)</b>										
Prepared & Analyzed: 04/07/21										
C6-C12	465	25.0	mg/kg wet	500		92.9	85-115			
>C12-C28	433	25.0	"	500		86.6	85-115			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	47.2		"	50.0		94.3	70-130			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
 Project Number: 13717  
 Project Manager: Matt Green

Fax: (432) 563-2213

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch PID0701 - TX 1005**

**Matrix Spike (PID0701-MS1) Source: 1D06001-14 Prepared & Analyzed: 04/07/21**

C6-C12	1030	27.5	mg/kg dry	1100	12.3	92.8	75-125			
>C12-C28	1220	27.5	"	1100	149	97.3	75-125			
Surrogate: 1-Chlorooctane	132		"	110		120	70-130			
Surrogate: o-Terphenyl	54.4		"	54.9		98.9	70-130			

**Matrix Spike Dup (PID0701-MSD1) Source: 1D06001-14 Prepared & Analyzed: 04/07/21**

C6-C12	1030	27.5	mg/kg dry	1100	12.3	92.8	75-125	0.00863	20	
>C12-C28	1150	27.5	"	1100	149	91.3	75-125	6.32	20	
Surrogate: 1-Chlorooctane	131		"	110		119	70-130			
Surrogate: o-Terphenyl	52.8		"	54.9		96.0	70-130			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

Fax: (432) 563-2213

**Notes and Definitions**

- ROI Received on Ice
- BULK Samples received in Bulk soil containers
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:  Date: 4/9/2021

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.



**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Matt Green

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100

Odessa, TX 79765

Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717

Location: Lea County, NM

Lab Order Number: 1E11005



**Current Certification**

Report Date: 05/20/21

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Comp-1	1E11005-01	Soil	05/10/21 12:30	05-11-2021 16:33
Comp-2	1E11005-02	Soil	05/10/21 12:35	05-11-2021 16:33
Comp-3	1E11005-03	Soil	05/10/21 12:40	05-11-2021 16:33
WW-1 @ 1'	1E11005-04	Soil	05/10/21 12:45	05-11-2021 16:33
WW-2 @ 1'	1E11005-05	Soil	05/10/21 12:50	05-11-2021 16:33

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

**Comp-1**  
**1E11005-01 (Soil)**

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 03:43	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 03:43	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 03:43	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 03:43	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 03:43	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		P1E1213	05/12/21 16:52	05/13/21 03:43	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		105 %	80-120		P1E1213	05/12/21 16:52	05/13/21 03:43	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>85.9</b>	1.03	mg/kg dry	1	P1E1809	05/18/21 10:37	05/19/21 07:11	EPA 300.0	
<b>% Moisture</b>	<b>3.0</b>	0.1	%	1	P1E1302	05/13/21 09:01	05/13/21 09:52	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 02:53	TPH 8015M	
>C12-C28	<b>32.7</b>	25.8	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 02:53	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 02:53	TPH 8015M	
Surrogate: 1-Chlorooctane		95.4 %	70-130		P1E1210	05/12/21 15:54	05/14/21 02:53	TPH 8015M	
Surrogate: o-Terphenyl		96.5 %	70-130		P1E1210	05/12/21 15:54	05/14/21 02:53	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>32.7</b>	25.8	mg/kg dry	1	[CALC]	05/12/21 15:54	05/14/21 02:53	calc	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

**Comp-2**  
**1E11005-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00112	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:04	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:04	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:04	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:04	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:04	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	101 %		80-120		P1E1213	05/12/21 16:52	05/13/21 04:04	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	108 %		80-120		P1E1213	05/12/21 16:52	05/13/21 04:04	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	113	1.12	mg/kg dry	1	P1E1809	05/18/21 10:37	05/19/21 07:57	EPA 300.0	
% Moisture	11.0	0.1	%	1	P1E1302	05/13/21 09:01	05/13/21 09:52	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	28.1	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 03:16	TPH 8015M	
>C12-C28	291	28.1	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 03:16	TPH 8015M	
>C28-C35	38.9	28.1	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 03:16	TPH 8015M	
Surrogate: 1-Chlorooctane	98.4 %		70-130		P1E1210	05/12/21 15:54	05/14/21 03:16	TPH 8015M	
Surrogate: o-Terphenyl	101 %		70-130		P1E1210	05/12/21 15:54	05/14/21 03:16	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>330</b>	28.1	mg/kg dry	1	[CALC]	05/12/21 15:54	05/14/21 03:16	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

**Comp-3**  
**1E11005-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00120	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:24	EPA 8021B	
Toluene	ND	0.00120	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:24	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:24	EPA 8021B	
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:24	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:24	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	80-120		P1E1213	05/12/21 16:52	05/13/21 04:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		107 %	80-120		P1E1213	05/12/21 16:52	05/13/21 04:24	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

<b>Chloride</b>	<b>55.6</b>	1.20	mg/kg dry	1	P1E1809	05/18/21 10:37	05/19/21 13:31	EPA 300.0	
<b>% Moisture</b>	<b>17.0</b>	0.1	%	1	P1E1302	05/13/21 09:01	05/13/21 09:52	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	30.1	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 03:40	TPH 8015M	
>C12-C28	<b>35.0</b>	30.1	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 03:40	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 03:40	TPH 8015M	
Surrogate: 1-Chlorooctane		96.8 %	70-130		P1E1210	05/12/21 15:54	05/14/21 03:40	TPH 8015M	
Surrogate: o-Terphenyl		99.8 %	70-130		P1E1210	05/12/21 15:54	05/14/21 03:40	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>35.0</b>	30.1	mg/kg dry	1	[CALC]	05/12/21 15:54	05/14/21 03:40	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

**WW-1 @ 1'**  
**1E11005-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00111	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:45	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:45	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:45	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:45	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 04:45	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	80-120		P1E1213	05/12/21 16:52	05/13/21 04:45	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		P1E1213	05/12/21 16:52	05/13/21 04:45	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	151	1.11	mg/kg dry	1	P1E1809	05/18/21 10:37	05/19/21 13:46	EPA 300.0	
% Moisture	10.0	0.1	%	1	P1E1302	05/13/21 09:01	05/13/21 09:52	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	27.8	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 04:03	TPH 8015M	
>C12-C28	51.8	27.8	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 04:03	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 04:03	TPH 8015M	
Surrogate: 1-Chlorooctane		96.4 %	70-130		P1E1210	05/12/21 15:54	05/14/21 04:03	TPH 8015M	
Surrogate: o-Terphenyl		98.7 %	70-130		P1E1210	05/12/21 15:54	05/14/21 04:03	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>51.8</b>	27.8	mg/kg dry	1	[CALC]	05/12/21 15:54	05/14/21 04:03	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

**WW-2 @ 1'**  
**1E11005-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00106	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 05:06	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 05:06	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 05:06	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 05:06	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P1E1213	05/12/21 16:52	05/13/21 05:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	99.5 %		80-120		P1E1213	05/12/21 16:52	05/13/21 05:06	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	105 %		80-120		P1E1213	05/12/21 16:52	05/13/21 05:06	EPA 8021B	

**General Chemistry Parameters by EPA / Standard Methods**

Chloride	437	1.06	mg/kg dry	1	P1E1809	05/18/21 10:37	05/19/21 14:01	EPA 300.0	
% Moisture	6.0	0.1	%	1	P1E1302	05/13/21 09:01	05/13/21 09:52	ASTM D2216	

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	26.6	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 04:27	TPH 8015M	
>C12-C28	147	26.6	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 04:27	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P1E1210	05/12/21 15:54	05/14/21 04:27	TPH 8015M	
Surrogate: 1-Chlorooctane	94.9 %		70-130		P1E1210	05/12/21 15:54	05/14/21 04:27	TPH 8015M	
Surrogate: o-Terphenyl	97.5 %		70-130		P1E1210	05/12/21 15:54	05/14/21 04:27	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>147</b>	<b>26.6</b>	<b>mg/kg dry</b>	<b>1</b>	<b>[CALC]</b>	<b>05/12/21 15:54</b>	<b>05/14/21 04:27</b>	<b>calc</b>	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch P1E1213 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P1E1213-BLK1)**

Prepared & Analyzed: 05/12/21

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.1	80-120			

**LCS (P1E1213-BS1)**

Prepared & Analyzed: 05/12/21

Benzene	0.100	0.00100	mg/kg wet	0.100		100	70-130			
Toluene	0.0986	0.00100	"	0.100		98.6	70-130			
Ethylbenzene	0.0934	0.00100	"	0.100		93.4	70-130			
Xylene (p/m)	0.205	0.00200	"	0.200		103	70-130			
Xylene (o)	0.0944	0.00100	"	0.100		94.4	70-130			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		102	80-120			

**LCS Dup (P1E1213-BSD1)**

Prepared & Analyzed: 05/12/21

Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130	3.27	20	
Toluene	0.102	0.00100	"	0.100		102	70-130	3.31	20	
Ethylbenzene	0.0956	0.00100	"	0.100		95.6	70-130	2.34	20	
Xylene (p/m)	0.210	0.00200	"	0.200		105	70-130	2.53	20	
Xylene (o)	0.0968	0.00100	"	0.100		96.8	70-130	2.54	20	
Surrogate: 4-Bromofluorobenzene	0.125		"	0.120		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	80-120			

**Calibration Blank (P1E1213-CCB2)**

Prepared: 05/12/21 Analyzed: 05/13/21

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

**BTEX by 8021B - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch PIE1213 - \*\*\* DEFAULT PREP \*\*\***

**Calibration Check (PIE1213-CCV2)**

Prepared: 05/12/21 Analyzed: 05/13/21

Benzene	0.0890	0.00100	mg/kg wet	0.100		89.0	80-120			
Toluene	0.0820	0.00100	"	0.100		82.0	80-120			
Ethylbenzene	0.0810	0.00100	"	0.100		81.0	80-120			
Xylene (p/m)	0.163	0.00200	"	0.200		81.6	80-120			
Xylene (o)	0.0805	0.00100	"	0.100		80.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.126		"	0.120		105	75-125			

**Calibration Check (PIE1213-CCV3)**

Prepared: 05/12/21 Analyzed: 05/13/21

Benzene	0.0958	0.00100	mg/kg wet	0.100		95.8	80-120			
Toluene	0.0911	0.00100	"	0.100		91.1	80-120			
Ethylbenzene	0.0872	0.00100	"	0.100		87.2	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		91.9	80-120			
Xylene (o)	0.0902	0.00100	"	0.100		90.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		106	75-125			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.120		106	75-125			

**Matrix Spike (PIE1213-MS1)**

Source: 1E06004-01

Prepared: 05/12/21 Analyzed: 05/13/21

Benzene	0.0805	0.00108	mg/kg dry	0.108	ND	74.8	80-120			QM-07
Toluene	0.0722	0.00108	"	0.108	ND	67.2	80-120			QM-07
Ethylbenzene	0.0631	0.00108	"	0.108	ND	58.7	80-120			QM-07
Xylene (p/m)	0.134	0.00215	"	0.215	ND	62.3	80-120			QM-07
Xylene (o)	0.0667	0.00108	"	0.108	ND	62.0	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.139		"	0.129		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.140		"	0.129		109	80-120			

**Matrix Spike Dup (PIE1213-MSD1)**

Source: 1E06004-01

Prepared: 05/12/21 Analyzed: 05/13/21

Benzene	0.0782	0.00108	mg/kg dry	0.108	ND	72.7	80-120	2.87	20	
Toluene	0.0706	0.00108	"	0.108	ND	65.7	80-120	2.24	20	
Ethylbenzene	0.0618	0.00108	"	0.108	ND	57.5	80-120	2.10	20	
Xylene (p/m)	0.132	0.00215	"	0.215	ND	61.4	80-120	1.48	20	
Xylene (o)	0.0655	0.00108	"	0.108	ND	60.9	80-120	1.85	20	
Surrogate: 4-Bromofluorobenzene	0.143		"	0.129		111	80-120			
Surrogate: 1,4-Difluorobenzene	0.141		"	0.129		110	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
 Project Number: 13717  
 Project Manager: Matt Green

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P1E1302 - *** DEFAULT PREP ***</b>										
<b>Blank (P1E1302-BLK1)</b>	Prepared & Analyzed: 05/13/21									
% Moisture	ND	0.1	%							
<b>Blank (P1E1302-BLK2)</b>	Prepared & Analyzed: 05/13/21									
% Moisture	ND	0.1	%							
<b>Duplicate (P1E1302-DUP1)</b>	<b>Source: 1E11002-20</b>		Prepared & Analyzed: 05/13/21							
% Moisture	7.0	0.1	%		7.0			0.00	20	
<b>Duplicate (P1E1302-DUP2)</b>	<b>Source: 1E11002-30</b>		Prepared & Analyzed: 05/13/21							
% Moisture	9.0	0.1	%		9.0			0.00	20	
<b>Duplicate (P1E1302-DUP3)</b>	<b>Source: 1E11002-45</b>		Prepared & Analyzed: 05/13/21							
% Moisture	9.0	0.1	%		9.0			0.00	20	
<b>Duplicate (P1E1302-DUP4)</b>	<b>Source: 1E11002-55</b>		Prepared & Analyzed: 05/13/21							
% Moisture	7.0	0.1	%		7.0			0.00	20	
<b>Duplicate (P1E1302-DUP5)</b>	<b>Source: 1E12001-03</b>		Prepared & Analyzed: 05/13/21							
% Moisture	ND	0.1	%		ND				20	
<b>Duplicate (P1E1302-DUP6)</b>	<b>Source: 1E12001-13</b>		Prepared & Analyzed: 05/13/21							
% Moisture	2.0	0.1	%		2.0			0.00	20	
<b>Duplicate (P1E1302-DUP7)</b>	<b>Source: 1E12002-03</b>		Prepared & Analyzed: 05/13/21							
% Moisture	4.0	0.1	%		4.0			0.00	20	
<b>Duplicate (P1E1302-DUP8)</b>	<b>Source: 1E12003-06</b>		Prepared & Analyzed: 05/13/21							
% Moisture	9.0	0.1	%		10.0			10.5	20	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P1E1302 - *** DEFAULT PREP ***</b>										
<b>Duplicate (P1E1302-DUP9)</b>		<b>Source: 1E12007-02</b>			Prepared & Analyzed: 05/13/21					
% Moisture	16.0	0.1	%		17.0			6.06	20	
<b>Duplicate (P1E1302-DUPA)</b>		<b>Source: 1E12007-12</b>			Prepared & Analyzed: 05/13/21					
% Moisture	16.0	0.1	%		15.0			6.45	20	
<b>Batch P1E1809 - *** DEFAULT PREP ***</b>										
<b>Blank (P1E1809-BLK1)</b>					Prepared & Analyzed: 05/18/21					
Chloride	ND	1.00	mg/kg wet							
<b>LCS (P1E1809-BS1)</b>					Prepared: 05/18/21 Analyzed: 05/19/21					
Chloride	418	1.00	mg/kg wet	400		104	90-110			
<b>LCS Dup (P1E1809-BSD1)</b>					Prepared & Analyzed: 05/18/21					
Chloride	403	1.00	mg/kg wet	400		101	90-110	3.48	20	
<b>Calibration Check (P1E1809-CCV1)</b>					Prepared: 05/18/21 Analyzed: 05/19/21					
Chloride	21.3		mg/kg	20.0		107	90-110			
<b>Calibration Check (P1E1809-CCV2)</b>					Prepared: 05/18/21 Analyzed: 05/19/21					
Chloride	21.3		mg/kg	20.0		107	90-110			
<b>Calibration Check (P1E1809-CCV3)</b>					Prepared: 05/18/21 Analyzed: 05/19/21					
Chloride	20.5		mg/kg	20.0		102	90-110			
<b>Matrix Spike (P1E1809-MS1)</b>		<b>Source: 1E18020-21</b>			Prepared & Analyzed: 05/18/21					
Chloride	26200	54.3	mg/kg dry	5430	20000	114	80-120			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
 Project Number: 13717  
 Project Manager: Matt Green

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch P1E1809 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike (P1E1809-MS2)</b>		<b>Source: 1E11005-01</b>		Prepared: 05/18/21		Analyzed: 05/19/21				
Chloride	556	1.03	mg/kg dry	515	85.9	91.1	80-120			
<b>Matrix Spike Dup (P1E1809-MSD1)</b>		<b>Source: 1E18020-21</b>		Prepared: 05/18/21		Analyzed: 05/19/21				
Chloride	26600	54.3	mg/kg dry	5430	20000	123	80-120	1.82	20	QM-05
<b>Matrix Spike Dup (P1E1809-MSD2)</b>		<b>Source: 1E11005-01</b>		Prepared: 05/18/21		Analyzed: 05/19/21				
Chloride	534	1.03	mg/kg dry	515	85.9	86.9	80-120	4.05	20	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch P1E1210 - TX 1005**

**Blank (P1E1210-BLK1)**

Prepared: 05/12/21 Analyzed: 05/13/21

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	95.5		"	100		95.5	70-130			
Surrogate: o-Terphenyl	48.3		"	50.0		96.5	70-130			

**LCS (P1E1210-BS1)**

Prepared: 05/12/21 Analyzed: 05/13/21

C6-C12	977	25.0	mg/kg wet	1000		97.7	75-125			
>C12-C28	839	25.0	"	1000		83.9	75-125			
Surrogate: 1-Chlorooctane	97.7		"	100		97.7	70-130			
Surrogate: o-Terphenyl	52.3		"	50.0		105	70-130			

**LCS Dup (P1E1210-BSD1)**

Prepared: 05/12/21 Analyzed: 05/13/21

C6-C12	982	25.0	mg/kg wet	1000		98.2	75-125	0.509	20	
>C12-C28	853	25.0	"	1000		85.3	75-125	1.69	20	
Surrogate: 1-Chlorooctane	99.8		"	100		99.8	70-130			
Surrogate: o-Terphenyl	49.6		"	50.0		99.2	70-130			

**Calibration Check (P1E1210-CCV1)**

Prepared: 05/12/21 Analyzed: 05/13/21

C6-C12	493	25.0	mg/kg wet	500		98.5	85-115			
>C12-C28	461	25.0	"	500		92.2	85-115			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	49.2		"	50.0		98.5	70-130			

**Calibration Check (P1E1210-CCV2)**

Prepared: 05/12/21 Analyzed: 05/14/21

C6-C12	465	25.0	mg/kg wet	500		92.9	85-115			
>C12-C28	449	25.0	"	500		89.8	85-115			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	48.2		"	50.0		96.5	70-130			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
 Project Number: 13717  
 Project Manager: Matt Green

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch P1E1210 - TX 1005**

**Calibration Check (P1E1210-CCV3)**

Prepared: 05/12/21 Analyzed: 05/14/21

C6-C12	453	25.0	mg/kg wet	500		90.5	85-115			
>C12-C28	435	25.0	"	500		86.9	85-115			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	46.5		"	50.0		92.9	70-130			

**Matrix Spike (P1E1210-MS1)**

Source: 1E12001-01

Prepared: 05/12/21 Analyzed: 05/14/21

C6-C12	874	25.0	mg/kg dry	1000	11.2	86.3	75-125			
>C12-C28	1640	25.0	"	1000	1050	58.6	75-125			QM-05
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	44.4		"	50.0		88.7	70-130			

**Matrix Spike Dup (P1E1210-MSD1)**

Source: 1E12001-01

Prepared: 05/12/21 Analyzed: 05/14/21

C6-C12	806	25.0	mg/kg dry	1000	11.2	79.5	75-125	8.18	20	
>C12-C28	1490	25.0	"	1000	1050	43.3	75-125	29.9	20	QM-05
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	51.0		"	50.0		102	70-130			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

**Notes and Definitions**

- ROI Received on Ice
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- BULK Samples received in Bulk soil containers
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:  Date: 5/20/2021

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Matt Green

---

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235



**PERMIAN BASIN  
ENVIRONMENTAL LAB, LP  
1400 Rankin Hwy  
Midland, TX 79701**



# Analytical Report

**Prepared for:**

Tim McMinn

E Tech Environmental & Safety Solutions, Inc. [1]

13000 West County Road 100

Odessa, TX 79765

Project: Juice Bud State Com 502 A Wellhead

Project Number: 13717

Location: Lea County, NM

Lab Order Number: 1E28016



**Current Certification**

Report Date: 06/07/21

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Tim McMinn

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Comp-2	1E28016-01	Soil	05/21/21 14:30	05-28-2021 11:02
WW-1	1E28016-02	Soil	05/21/21 13:15	05-28-2021 11:02
WW-2	1E28016-03	Soil	05/21/21 13:20	05-28-2021 11:02

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
 Project Number: 13717  
 Project Manager: Tim McMinn

**Comp-2**  
**1E28016-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>20.0</b>	0.1	%	1	PIF0203	06/02/21 08:28	06/02/21 09:05	ASTM D2216	
<b>Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M</b>									
C6-C12	ND	31.2	mg/kg dry	1	PIF0206	06/02/21 10:30	06/04/21 23:19	TPH 8015M	
>C12-C28	<b>42.2</b>	31.2	mg/kg dry	1	PIF0206	06/02/21 10:30	06/04/21 23:19	TPH 8015M	
>C28-C35	ND	31.2	mg/kg dry	1	PIF0206	06/02/21 10:30	06/04/21 23:19	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		PIF0206	06/02/21 10:30	06/04/21 23:19	TPH 8015M	
Surrogate: o-Terphenyl		127 %	70-130		PIF0206	06/02/21 10:30	06/04/21 23:19	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>42.2</b>	31.2	mg/kg dry	1	[CALC]	06/02/21 10:30	06/04/21 23:19	calc	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
 Project Number: 13717  
 Project Manager: Tim McMinn

**WW-1**  
**1E28016-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>11.0</b>	0.1	%	1	P1F0203	06/02/21 08:28	06/02/21 09:05	ASTM D2216	
-------------------	-------------	-----	---	---	---------	----------------	----------------	------------	--

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	28.1	mg/kg dry	1	P1F0206	06/02/21 10:30	06/04/21 23:41	TPH 8015M	
>C12-C28	ND	28.1	mg/kg dry	1	P1F0206	06/02/21 10:30	06/04/21 23:41	TPH 8015M	
>C28-C35	ND	28.1	mg/kg dry	1	P1F0206	06/02/21 10:30	06/04/21 23:41	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>	<i>109 %</i>		<i>70-130</i>		<i>P1F0206</i>	<i>06/02/21 10:30</i>	<i>06/04/21 23:41</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>	<i>121 %</i>		<i>70-130</i>		<i>P1F0206</i>	<i>06/02/21 10:30</i>	<i>06/04/21 23:41</i>	<i>TPH 8015M</i>	
Total Petroleum Hydrocarbon C6-C35	ND	28.1	mg/kg dry	1	[CALC]	06/02/21 10:30	06/04/21 23:41	calc	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
 Project Number: 13717  
 Project Manager: Tim McMinn

**WW-2**  
**1E28016-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**Permian Basin Environmental Lab, L.P.**

**General Chemistry Parameters by EPA / Standard Methods**

<b>% Moisture</b>	<b>13.0</b>	0.1	%	1	P1F0203	06/02/21 08:28	06/02/21 09:05	ASTM D2216	
-------------------	-------------	-----	---	---	---------	----------------	----------------	------------	--

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	28.7	mg/kg dry	1	P1F0206	06/02/21 10:30	06/05/21 00:03	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P1F0206	06/02/21 10:30	06/05/21 00:03	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P1F0206	06/02/21 10:30	06/05/21 00:03	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		<i>104 %</i>	<i>70-130</i>		<i>P1F0206</i>	<i>06/02/21 10:30</i>	<i>06/05/21 00:03</i>	<i>TPH 8015M</i>	
<i>Surrogate: o-Terphenyl</i>		<i>115 %</i>	<i>70-130</i>		<i>P1F0206</i>	<i>06/02/21 10:30</i>	<i>06/05/21 00:03</i>	<i>TPH 8015M</i>	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	06/02/21 10:30	06/05/21 00:03	calc	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
 Project Number: 13717  
 Project Manager: Tim McMinn

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch P1F0203 - *** DEFAULT PREP ***</b>										
<b>Blank (P1F0203-BLK1)</b>				Prepared & Analyzed: 06/02/21						
% Moisture	ND	0.1	%							
<b>Duplicate (P1F0203-DUP1)</b>				Source: 1E28002-10 Prepared & Analyzed: 06/02/21						
% Moisture	7.0	0.1	%		7.0			0.00	20	
<b>Duplicate (P1F0203-DUP2)</b>				Source: 1E28005-03 Prepared & Analyzed: 06/02/21						
% Moisture	9.0	0.1	%		10.0			10.5	20	
<b>Duplicate (P1F0203-DUP3)</b>				Source: 1E28008-01 Prepared & Analyzed: 06/02/21						
% Moisture	9.0	0.1	%		11.0			20.0	20	
<b>Duplicate (P1F0203-DUP4)</b>				Source: 1E28010-01 Prepared & Analyzed: 06/02/21						
% Moisture	9.0	0.1	%		9.0			0.00	20	
<b>Duplicate (P1F0203-DUP5)</b>				Source: 1E28014-02 Prepared & Analyzed: 06/02/21						
% Moisture	14.0	0.1	%		14.0			0.00	20	
<b>Duplicate (P1F0203-DUP6)</b>				Source: 1E28015-03 Prepared & Analyzed: 06/02/21						
% Moisture	13.0	0.1	%		12.0			8.00	20	
<b>Duplicate (P1F0203-DUP7)</b>				Source: 1E28020-03 Prepared & Analyzed: 06/02/21						
% Moisture	12.0	0.1	%		12.0			0.00	20	
<b>Duplicate (P1F0203-DUP8)</b>				Source: 1F01008-01 Prepared & Analyzed: 06/02/21						
% Moisture	8.0	0.1	%		7.0			13.3	20	

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Tim McMinn

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch P1F0206 - TX 1005**

**Blank (P1F0206-BLK1)**

Prepared: 06/02/21 Analyzed: 06/04/21

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	99.3		"	100		99.3	70-130			
Surrogate: o-Terphenyl	54.9		"	50.0		110	70-130			

**LCS (P1F0206-BS1)**

Prepared: 06/02/21 Analyzed: 06/04/21

C6-C12	1020	25.0	mg/kg wet	1000		102	75-125			
>C12-C28	923	25.0	"	1000		92.3	75-125			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	56.6		"	50.0		113	70-130			

**LCS Dup (P1F0206-BS1)**

Prepared: 06/02/21 Analyzed: 06/04/21

C6-C12	1050	25.0	mg/kg wet	1000		105	75-125	2.26	20	
>C12-C28	951	25.0	"	1000		95.1	75-125	3.00	20	
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	56.9		"	50.0		114	70-130			

**Calibration Blank (P1F0206-CCB1)**

Prepared: 06/02/21 Analyzed: 06/04/21

C6-C12	9.53		mg/kg wet							
>C12-C28	17.9		"							
Surrogate: 1-Chlorooctane	94.9		"	100		94.9	70-130			
Surrogate: o-Terphenyl	52.2		"	50.0		104	70-130			

**Calibration Check (P1F0206-CCV1)**

Prepared: 06/02/21 Analyzed: 06/04/21

C6-C12	534	25.0	mg/kg wet	500		107	85-115			
>C12-C28	529	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	59.6		"	50.0		119	70-130			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
 13000 West County Road 100  
 Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
 Project Number: 13717  
 Project Manager: Tim McMinn

**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control**  
**Permian Basin Environmental Lab, L.P.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch P1F0206 - TX 1005**

**Matrix Spike (P1F0206-MS1)**

Source: 1E28019-01

Prepared: 06/02/21

Analyzed: 06/05/21

C6-C12	1050	26.0	mg/kg dry	1040	15.9	99.6	75-125			
>C12-C28	1350	26.0	"	1040	970	37.0	75-125			QM-05
Surrogate: 1-Chlorooctane	105		"	104		101	70-130			
Surrogate: o-Terphenyl	65.3		"	52.1		125	70-130			

**Matrix Spike Dup (P1F0206-MSD1)**

Source: 1E28019-01

Prepared: 06/02/21

Analyzed: 06/05/21

C6-C12	1030	26.0	mg/kg dry	1040	15.9	97.2	75-125	2.46	20	
>C12-C28	1350	26.0	"	1040	970	36.6	75-125	1.07	20	QM-05
Surrogate: 1-Chlorooctane	102		"	104		97.9	70-130			
Surrogate: o-Terphenyl	61.3		"	52.1		118	70-130			

Permian Basin Environmental Lab, L.P.

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.*

1400 Rankin HWY Midland, TX 79701 432-686-7235

E Tech Environmental & Safety Solutions, Inc. [1]  
13000 West County Road 100  
Odessa TX, 79765

Project: Juice Bud State Com 502 A Wellhead  
Project Number: 13717  
Project Manager: Tim McMinn

**Notes and Definitions**

- ROI Received on Ice
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- BULK Samples received in Bulk soil containers
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:  Date: 6/7/2021

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.



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	nAPP2102628107
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Centennial Resource Production, Inc	OGRID: 372165
Contact Name: Jamon Hohensee	Contact Telephone: 432-241-4283
Contact email: jamon.hohensee@cdevinc.com	Incident # nAPP2102628107
Contact mailing address: 500 W. Illinois Ave, Suite 500, Midland Texas 79705	

### Location of Release Source

Latitude 32.45868 \_\_\_\_\_ Longitude -103.51118 \_\_\_\_\_  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name: Juice Bud State Com 502H	Site Type: Production Facility
Date Release Discovered: 1/22/21	API# (if applicable)

Unit Letter	Section	Township	Range	County
N	19	21S	34E	Lea

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 3	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 3	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

**Cause of Release**

2" nipple behind the union on the well head washed out causing fluids to be released to the pad area adjacent to the well head.



Incident ID	nAPP2102628107
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?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2102628107
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: \_\_\_\_\_ Title: \_\_\_\_\_

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

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	nAPP2102628107
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 confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

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

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

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

Incident ID	nAPP2102628107
District RP	
Facility ID	
Application ID	

### Closure

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

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

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

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

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

email: \_\_\_\_\_ 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: \_\_\_\_\_

Received by OCD: 8/17/2021 12:00:00 PM

Released to Imaging: 11/17/2021 11:30:21 AM

Incident ID	nAPP2102628107
District RP	
Facility ID	
Application ID	

### Closure

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

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

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

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

Printed Name: Samon Hohensee Title: Sr. Environmental Analyst  
 Signature: [Signature] Date: 8-10-21  
 email: jamon.hohensee@cdeving.com Telephone: 432-241-4283

**OCD Only**

Received by: Robert Hamlet Date: 11/17/2021

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: Robert Hamlet Date: 11/17/2021  
 Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
 811 S. First St., Artesia, NM 88210  
 Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS  
 Action 41032

**CONDITIONS**

Operator: CENTENNIAL RESOURCE PRODUCTION, LLC 1001 17th Street, Suite 1800 Denver, CO 80202	OGRID: 372165
	Action Number: 41032
	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 #NAPP2102628107 JUICE BUD STATE COM 502H, thank you. This closure is approved.	11/17/2021