



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

**Centennial Resource Development, Inc.  
Merchant Livestock 24 State COM 2H  
Lea County, New Mexico  
Unit Letter "N", Section 24, Township 22 South, Range 34 East  
Latitude 32.37006° North, Longitude 103.426731° West  
NMOCD Incident ID#: pRM1934553523, and nRM1934553443**

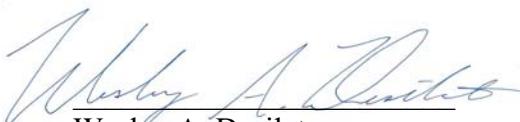
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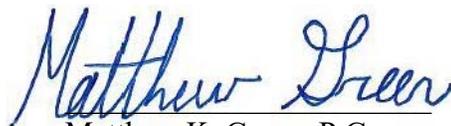
**Centennial Resource Development, Inc.**  
500 W. Illinois Avenue  
Suite 500  
Midland, Texas 79701

Prepared By:

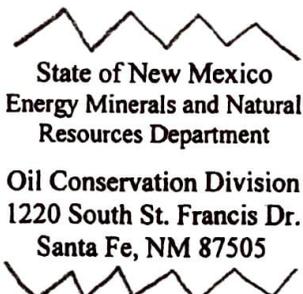
**Etech Environmental & Safety Solutions, Inc.**  
P.O. Box 62228  
Midland, Texas 79711

**December 2020**

  
Wesley A. Desilets  
Project Manager

  
Matthew K. Green, P.G.  
Senior Project Manager

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



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

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Centennial Resource Production, Inc	OGRID: 372165
Contact Name: Zane Kurtz	Contact Telephone: 432-315-0113
Contact email: Zane.Kurtz@cdevinc.com	Incident # (assigned by OCD) <b>PRM1934553523</b>
Contact mailing address: 500 W. Illinois Ave, Suite 500, Midland, Texas 79705	<b>PRM1934553443</b>

### Location of Release Source

Latitude 32.37005 Longitude -103.42671  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Merchant Livestock 24 State Com 2H	Site Type: Oil Production
Date Release Discovered: 8-15-19	API# <del>30-025-413470000</del> <b>30-025-413470000</b>

Unit Letter	Section	Township	Range	County
N	<b>24</b>	<b>22S</b>	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 type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <b>80</b>	Volume Recovered (bbls) <b>0</b>
	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

During produced water transfer activities, a small split in the poly pipe developed. Produced water was released from the poly pipe and ran along the edge of the pad and to the south off the pad.

Received by OCD: 10/25/2019 9:31:29 AM

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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? >25bbbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? An email was sent to <u>emnrd_oed_district1spills@state.nm.us</u> on 8-16-19	

**Initial Response**

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why: Once the release was discovered, the transfer pump was off and any free-standing liquids had been absorbed into the ground.
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Jamon Hohensee</u> Title: <u>Sr. Environmental Analyst</u> Signature: <u></u> Date: <u>8/21/19</u> email: <u>Jamon.hohensee@cdevinc.com</u> Telephone: <u>432-315-0132</u>
<p><b>OCD Only</b></p> Received by: _____ Date: _____

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### Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<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 not 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.

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

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

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

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

**OCD Only**

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

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## 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: \_\_\_\_\_

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PRM1934553523  
nRM1934553443

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### Closure

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

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

- 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: Jamon Hohensee Title: Sr. Environmental Analyst  
 Signature: [Signature] Date: 12-22-20  
 email: jamon.hohensee@cdevinc.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: \_\_\_\_\_

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

### APPENDICES

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Appendix B – Laboratory 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 Merchant Livestock 24 State COM 2H. The legal description of the Release Site is Unit Letter "N", Section 24, Township 22 South, Range 34 East, in Lea County, New Mexico. The Release Site GPS coordinates are 32.369788° North and 103.427205° West. Please reference Figure 1 for the Site Location Map and Figure 2 for the Site Details and Confirmation Soil Sample Map.

On August 15, 2019, during water transfer activities, Centennial discovered a split had developed in the poly pipe, resulting in the release. Approximately eighty (80) barrels of produced water were released with zero (0) barrels recovered, resulting in a net loss of approximately eighty (80) barrels of produced water. On August 21, 2019, Centennial filed a *Release Notification and Corrective Action Form* (Form C-141) with the New Mexico Oil Conservation Division (NMOCD). The Form C-141 is provided as Appendix C. Photographic documentation for the site is 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 Merchant Livestock 24 State COM 2H Release Site. A further search of the USGS database identified the closest registered water well is USGS Well #: 322231103262601 located approximately one (1) mile northwest of the Release Site. The average depth to groundwater for USGS Well #: 322231103262601 should be encountered at approximately seventeen (17) feet below ground surface (bgs). Based on the NMOCD site classification system, twenty (20) points will be assigned to the subject area ranking as a result of this criterion. No water wells were observed within one thousand (1,000) feet of the Release Site. Based on the NMOCD site classification system, zero (0) points will be assigned to the subject area ranking as a result of this criterion. No surface water was observed within one thousand (1,000) feet of the release. Based on the NMOCD site classification system, twenty (20) points will be assigned to the Merchant Livestock 24 State COM 2H Release Site as a result of this criterion. Based on this score, the soil remediation levels for a site with a ranking score of twenty (20) points 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

On March 16, 2020, Etech was assigned management responsibilities for soil sampling, site restoration, and reporting activities by Centennial. Prior to Etech's involvement, the impacted area was excavated by a third-party contractor and the impacted soil was disposed of at an NMOCD approved landfill.

On April 30, 2020, Etech conducted additional excavation activities in the previously excavated area due to visible chloride crystallization. Following excavation activities seven (7) composite bottom hole soil samples (Bottom Hole 1 @ 9' through Bottom Hole 7 @ 9') and sixteen (16) composite sidewall soil samples (North Sidewall 1 @ 2', South Sidewall 1 @ 2', East Sidewall 1 @ 2' through East Sidewall 7 @ 2', and West Sidewall 1 @ 2' through West Sidewall 7 @ 2') were collected from the excavated areas. Soil samples were submitted to Permian Basin Environmental Lab, L.P. (PBELAB) in Midland, Texas to be 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 all collected soil samples were below applicable NMOCD limits and/or laboratory method detection limits. Please reference Figure 2 for site details and soil sampling locations.

On May 6, 2020, one (1) additional composite bottom hole soil sample (BH-8 @ 2') and four (4) additional composite sidewall soil samples (NSW-8 @ 1', WSW-8 @ 1', ESW-8 @ 1', and SSW-8 @ 1') were collected from the excavated area. Soil samples were submitted to PBELAB and analyzed for BTEX, TPH, and chloride concentrations. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits and/or laboratory method detection limits with the exception of composite bottom hole soil sample BH-8 @ 2' which exhibited TPH concentrations above NMOCD limits. Please reference Figure 2 for site details and soil sampling locations. Based on the analytical results, further excavation was needed for the area represented by composite bottom hole soil sample BH-8 @ 2'.

On June 23, 2020, following additional excavation activities, one (1) composite bottom hole soil sample (BH-8 @ 3') was collected from the area represented by bottom hole composite soil sample BH-8 @ 2' and submitted to PBELAB for TPH analysis. Please reference Figure 2 for site details and Figure 3 for soil sampling locations. A review of laboratory analytical results indicated the collected soil sample was below applicable NMOCD limits and laboratory method detection limits.

On July 28, 2020, after additional excavation activities to address surface crystallization, two (2) composite bottom hole soil samples (Bottom Hole-1 @ 9.5' and Bottomhole-2 @ 9.5') and two (2) composite sidewall soil samples (West Sidewall-1 @ 6' and West Sidewall-2 @ 6') were collected from the excavated area and submitted to PBELAB for chloride analysis. Please reference Figure 2 for site details and soil sampling locations. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits.

On September 23, 2020, following additional excavation activities, one (1) composite bottom hole soil sample (Bottom Hole-9 @ 13') and three (3) composite sidewall soil samples (North Sidewall-9 @ 8', East Sidewall-9 @ 8', and West Sidewall-9 @ 8') were collected from the excavated area and submitted to PBELAB for chloride analysis. Please reference Figure 2 for site details and soil sampling locations. A review of laboratory analytical results indicated all collected soil samples were below applicable NMOCD limits.

Based on laboratory analytical results, all impacted soil has been removed from the release area. Table 1 summarizes the Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil. Analytical reports are provided as Appendix B.

## **SOIL DISPOSAL AND CLOSURE REQUEST**

On August 10, 2020, Etech, on behalf of Centennial, transported thirty-six (36) cubic yards of material to Sundance Services, Inc. Parabo Facility (NMOCD Permit #: NM-01-0003) located on Highway 18 near Eunice, New Mexico for disposal. On September 28, 2020, Etech transported an additional fifty-four (54) cubic yards of material to Sundance Services, Inc. Parabo Facility located on Highway 18 near Eunice, New Mexico for disposal. On October 19, 2020, backfill activities were completed at the Release Site utilizing non-impacted, soil purchased from a local source and the impacted area was re-contoured to fit the surrounding topography. On October 30, 2020, the Release Site was reseeded utilizing an approved native seed mix and a tractor equipped with a seed drill in an attempt to reestablish vegetation. Yearly monitoring of the site will be conducted to ensure vegetation growth and additional reseeding events will be conducted as needed.

Based on the analytical results of confirmation soil samples collected from the excavation, impacted soils were brought to surface and confirmation soil samples below applicable NMOCD regulatory limits. Etech, on behalf of Centennial, respectfully request that the NMOCD District 1 Office grant site closure to the Merchant Livestock 24 State COM 2H Release Site (NMOCD Incident ID#: nRH2003535484)

## **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.

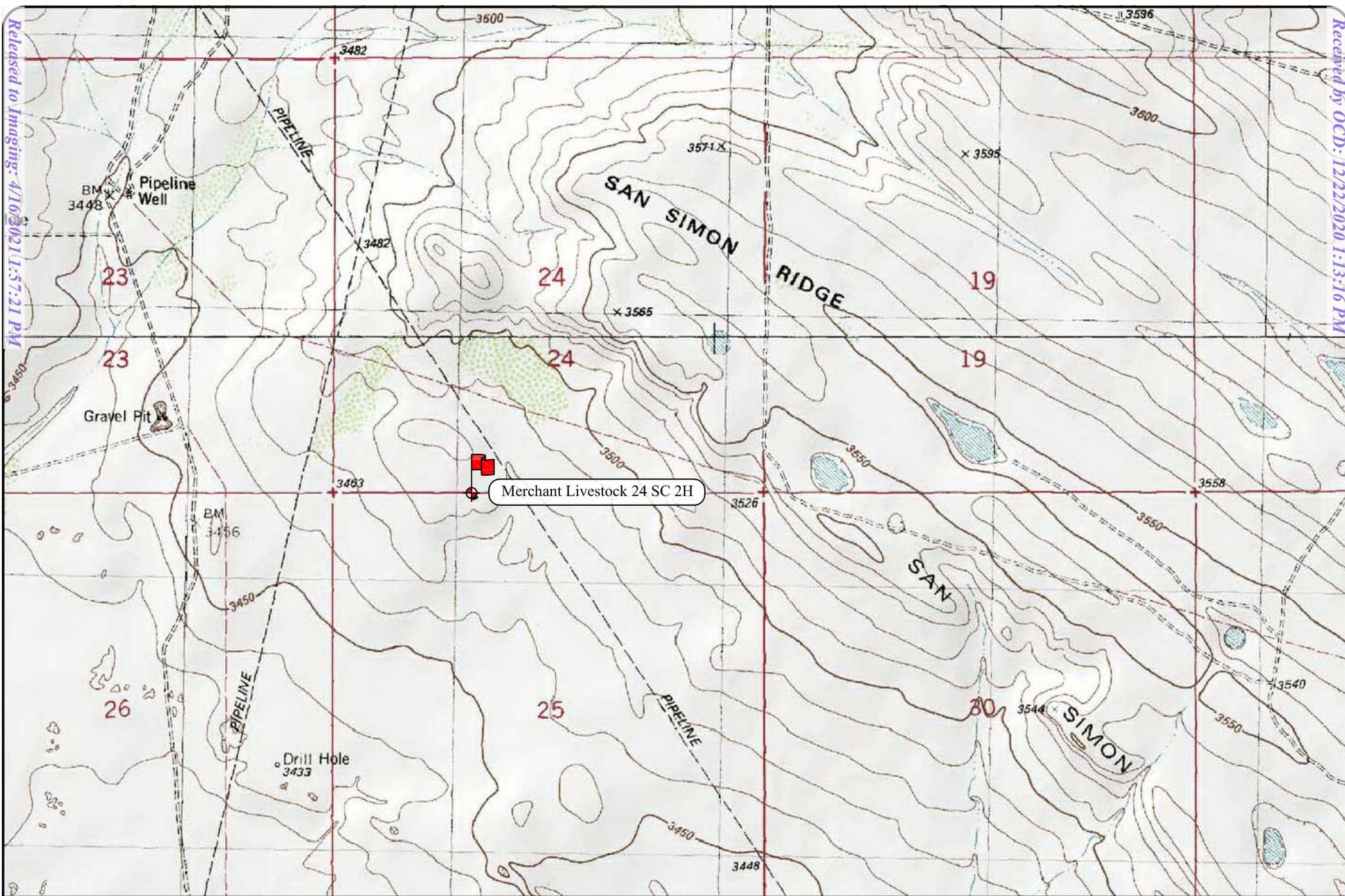
This report has been prepared for the benefit of Centennial Resource Development, Inc. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Etech and/or Centennial Resource Development, Inc.

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

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



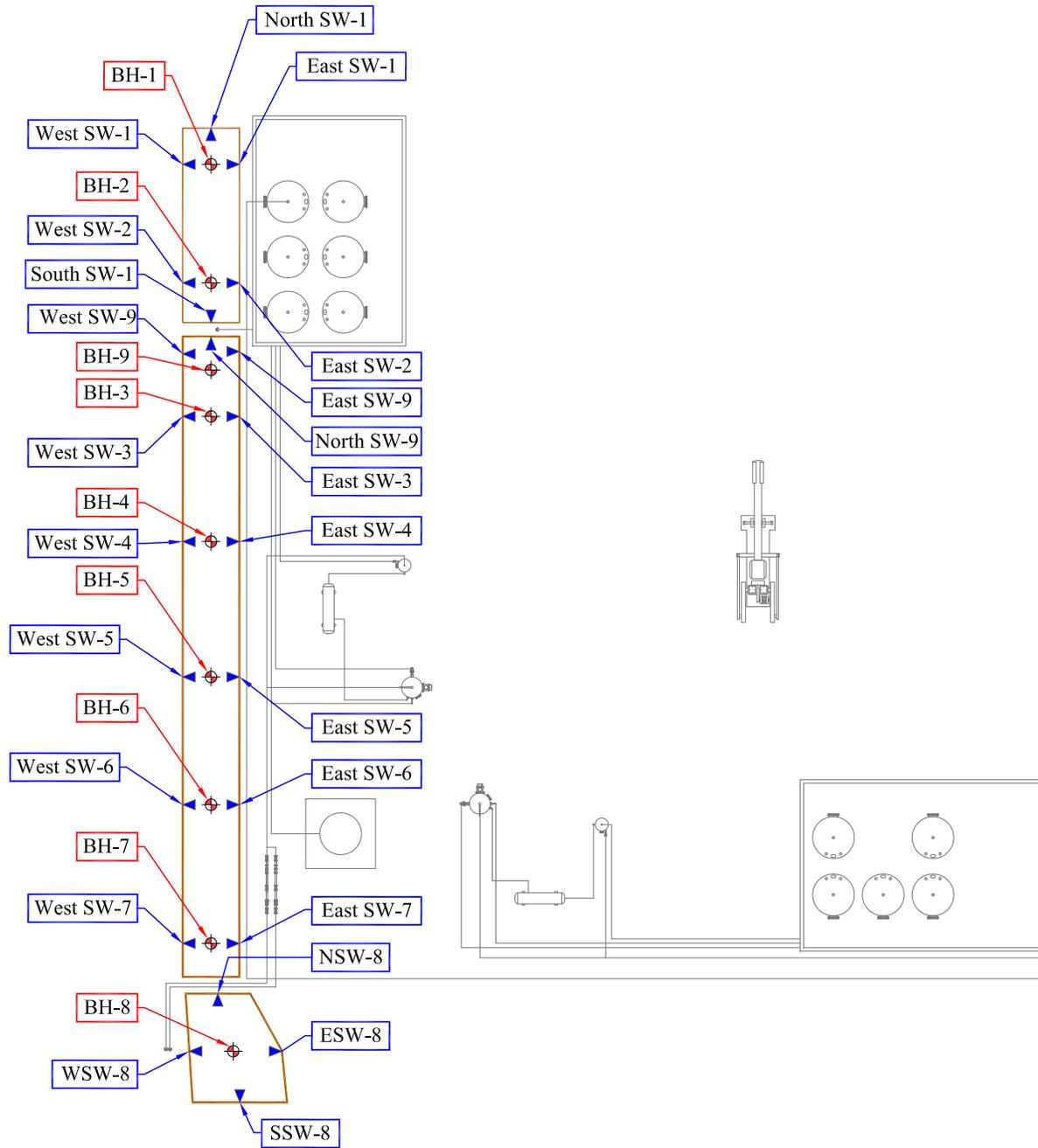
Site Map - Merchant Livestock 24 SC 2H  
 Figure 1: Site Location Map  
 Centennial Resource Development, Inc.  
 Lea County, NM  
 Coordinates: N 32.37006, W 103.42673  
 August 2020

Legend  
 = Location Marker  
 No Scale

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

1226-12175

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**Notes:**

- Blue Boxes are side wall sample points.
- Red Boxes are bottom hole sample points.
- All sample points are approximate.
- \*\*All sample must be five point composites.
- Highlighted yellow indicates over regulator limits.



Site Map - Merchant Livestock 24 SC 2H  
 Figure 2: Site Details and Confirmation Sample Map  
 Centennial Resource Development, Inc.  
 Lea County, NM  
 Coordinates: N 32.37006, W 103.42673  
 August 2020

**Legend**

- = Bottom Sampling Point
- = Side Wall Sampling Point
- = Excavation Perimeter

0 40 80  
Feet

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

1226-12175

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**TABLE 1**  
**CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL**  
**CENTENNIAL RESOURCE DEVELOPMENT, INC.**  
**MERCHANT LIVESTOCK 24 SC 2H RELEASE SITE**  
**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
Bottom Hole Sample Results														
Bottom Hole 1 @ 9'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	99.7	
Bottom Hole 1 @ 9.5'	7/28/2020	-	-	-	-	-	-	-	-	-	-	-	21.2	
Bottom Hole 2 @ 9'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	41.4	
Bottom Hole 2 @ 9.5'	7/28/2020	-	-	-	-	-	-	-	-	-	-	-	380	
Bottom Hole 3 @ 9'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	72.0	
Bottom Hole 4 @ 9'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	263	
Bottom Hole 5 @ 9'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	182	
Bottom Hole 6 @ 9'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.1	
Bottom Hole 7 @ 9'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	63.6	
BH-8 @ 2'	5/6/2020	ND	ND	ND	ND	ND	ND	ND	ND	86.0	36.8	122.8	140	
BH-8 @ 3'	6/23/2020	-	-	-	-	-	-	-	ND	ND	ND	ND	-	
Bottom Hole 9 @ 13'	9/23/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	462	
Sidewall Sample Results														
North Sidewall 1 @ 2'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	23.1	
South Sidewall 1 @ 2'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15.2	
East Sidewall 1 @ 2'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.9	
West Sidewall 1 @ 2'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	33.6	
West Sidewall 1 @ 6'	7/28/2020	-	-	-	-	-	-	-	-	-	-	-	25.9	
East Sidewall 2 @ 2'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190	
West Sidewall 2 @ 2'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.7	
West Sidewall 2 @ 6'	7/28/2020	-	-	-	-	-	-	-	-	-	-	-	23.7	

**TABLE 1**  
**CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL**  
**CENTENNIAL RESOURCE DEVELOPMENT, INC.**  
**MERCHANT LIVESTOCK 24 SC 2H RELEASE SITE**  
**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
East Sidewall 3 @ 2'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	202
West Sidewall 3 @ 2'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	358
East Sidewall 4 @ 2'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.50
West Sidewall 4 @ 2'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	36.3
East Sidewall 5 @ 2'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35.4
West Sidewall 5 @ 2'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	101
East Sidewall 6 @ 2'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.95
West Sidewall 6 @ 2'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	84.5
East Sidewall 7 @ 2'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.25
West Sidewall 7 @ 2'	4/30/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35.5
NSW-8 @ 1'	5/6/2020	ND	ND	ND	0.00392	0.00112	0.00504	0.00504	ND	31.3	ND	31.3	249
WSW-8 @ 1'	5/6/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	26.9
ESW-8 @ 1'	5/6/2020	ND	ND	ND	0.00422	0.00127	0.00549	0.00549	ND	ND	ND	ND	52.5
SSW-8 @ 1'	5/6/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	113
North Sidewall 9 @ 8'	9/23/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	213
East Sidewall 9 @ 8'	9/23/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	29.0
West Sidewall 9 @ 8'	9/23/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	246

**Bold and Yellow Highlighted indicates Analyte Above NMOCD Regulatory Limit**

**ND - Analyte not Detected at or above the laboratory method reporting limit and below NMOCD Regulatory Limit**

**Project Name:** Merchant Livestock 24 SC 2H  
**Project No:** 12175

**Photographic Documentation**

<b>Photo No:</b> 1.	
<b>Direction Taken:</b> Southeast	
<b>Description:</b> View of the excavated area.	

<b>Photo No:</b> 2.	
<b>Direction Taken:</b> Southeast	
<b>Description:</b> View of the excavated area.	

**Project Name:** Merchant Livestock 24 SC 2H  
**Project No:** 12175

**Photographic Documentation**



**Project Name:** Merchant Livestock 24 SC 2H  
**Project No:** 12175

**Photographic Documentation**



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



## Revised Analytical Report

**Prepared for:**

Matt Green

E Tech Environmental & Safety Solutions, Inc.

13000 West County Road 100

Odessa, TX 79765

Project: Centennial Merchant Livestock 24 SC 2H

Project Number: 12174

Location: Lea County, NM

Lab Order Number: 0E01005



**Current Certification**

Report Date: 09/01/20

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
North Sidewall 1 @ 2'	0E01005-01	Soil	04/30/20 10:18	05-01-2020 08:50
South Sidewall 1 @ 2'	0E01005-02	Soil	04/30/20 10:24	05-01-2020 08:50
Bottom Hole 1 @ 9'	0E01005-03	Soil	04/30/20 09:35	05-01-2020 08:50
East Sidewall 1 @ 2'	0E01005-04	Soil	04/30/20 09:48	05-01-2020 08:50
West Sidewall 1 @ 2'	0E01005-05	Soil	04/30/20 10:07	05-01-2020 08:50
Bottom Hole 2 @ 9'	0E01005-06	Soil	04/30/20 09:39	05-01-2020 08:50
East Sidewall 2 @ 2'	0E01005-07	Soil	04/30/20 09:50	05-01-2020 08:50
West Sidewall 2 @ 2'	0E01005-08	Soil	04/30/20 10:10	05-01-2020 08:50
Bottom Hole 3 @ 9'	0E01005-09	Soil	04/30/20 14:30	05-01-2020 08:50
East Sidewall 3 @ 2'	0E01005-10	Soil	04/30/20 14:45	05-01-2020 08:50
West Sidewall 3 @ 2'	0E01005-11	Soil	04/30/20 14:40	05-01-2020 08:50
Bottom Hole 4 @ 9'	0E01005-12	Soil	04/30/20 15:12	05-01-2020 08:50
East Sidewall 4 @ 2'	0E01005-13	Soil	04/30/20 15:12	05-01-2020 08:50
West Sidewall 4 @ 2'	0E01005-14	Soil	04/30/20 15:12	05-01-2020 08:50
Bottom Hole 5 @ 9'	0E01005-15	Soil	04/30/20 15:20	05-01-2020 08:50
East Sidewall 5 @ 2'	0E01005-16	Soil	04/30/20 15:20	05-01-2020 08:50
West Sidewall 5 @ 2'	0E01005-17	Soil	04/30/20 15:20	05-01-2020 08:50
Bottom Hole 6 @ 9'	0E01005-18	Soil	04/30/20 15:30	05-01-2020 08:50
East Sidewall 6 @ 2'	0E01005-19	Soil	04/30/20 15:30	05-01-2020 08:50
West Sidewall 6 @ 2'	0E01005-20	Soil	04/30/20 15:30	05-01-2020 08:50
Bottom Hole 7 @ 9'	0E01005-21	Soil	04/30/20 15:40	05-01-2020 08:50
East Sidewall 7 @ 2'	0E01005-22	Soil	04/30/20 15:40	05-01-2020 08:50
West Sidewall 7 @ 2'	0E01005-23	Soil	04/30/20 15:40	05-01-2020 08:50

On 08/31/20 PBELAB was advised by the client to change the Project name from Merchant Livestock 25 SC 2H to Merchant Livestock 24 SC 24. This revised report reflects that change.

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**North Sidewall 1 @ 2'**  
**0E01005-01 (Soil)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

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

**BTEX by 8021B**

Benzene	ND	0.00139	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 15:13	EPA 8021B	
Toluene	ND	0.00139	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 15:13	EPA 8021B	
Ethylbenzene	ND	0.00139	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 15:13	EPA 8021B	
Xylene (p/m)	ND	0.00278	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 15:13	EPA 8021B	
Xylene (o)	ND	0.00139	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 15:13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.0 %		75-125	P0E0105	05/01/20 12:21	05/01/20 15:13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %		75-125	P0E0105	05/01/20 12:21	05/01/20 15:13	EPA 8021B	

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

Chloride	23.1	6.94	mg/kg dry	5	P0E0708	05/07/20 13:08	05/08/20 03:25	EPA 300.0	
% Moisture	28.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	34.7	mg/kg dry	1	P0E0111	05/01/20 15:02	05/02/20 10:34	TPH 8015M	
>C12-C28	ND	34.7	mg/kg dry	1	P0E0111	05/01/20 15:02	05/02/20 10:34	TPH 8015M	
>C28-C35	ND	34.7	mg/kg dry	1	P0E0111	05/01/20 15:02	05/02/20 10:34	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %		70-130	P0E0111	05/01/20 15:02	05/02/20 10:34	TPH 8015M	
Surrogate: o-Terphenyl		114 %		70-130	P0E0111	05/01/20 15:02	05/02/20 10:34	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	34.7	mg/kg dry	1	[CALC]	05/01/20 15:02	05/02/20 10:34	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**South Sidewall 1 @ 2'**  
**0E01005-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00119	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 15:34	EPA 8021B	
Toluene	ND	0.00119	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 15:34	EPA 8021B	
Ethylbenzene	ND	0.00119	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 15:34	EPA 8021B	
Xylene (p/m)	ND	0.00238	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 15:34	EPA 8021B	
Xylene (o)	ND	0.00119	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 15:34	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	75-125		P0E0105	05/01/20 12:21	05/01/20 15:34	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.3 %	75-125		P0E0105	05/01/20 12:21	05/01/20 15:34	EPA 8021B	

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

Chloride	15.2	1.19	mg/kg dry	1	P0E0708	05/07/20 13:08	05/08/20 03:40	EPA 300.0	
% Moisture	16.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	29.8	mg/kg dry	1	P0E0111	05/01/20 15:02	05/02/20 10:57	TPH 8015M	
>C12-C28	ND	29.8	mg/kg dry	1	P0E0111	05/01/20 15:02	05/02/20 10:57	TPH 8015M	
>C28-C35	ND	29.8	mg/kg dry	1	P0E0111	05/01/20 15:02	05/02/20 10:57	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0E0111	05/01/20 15:02	05/02/20 10:57	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P0E0111	05/01/20 15:02	05/02/20 10:57	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.8	mg/kg dry	1	[CALC]	05/01/20 15:02	05/02/20 10:57	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**Bottom Hole 1 @ 9'**  
**0E01005-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00115	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 15:55	EPA 8021B	
Toluene	ND	0.00115	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 15:55	EPA 8021B	
Ethylbenzene	ND	0.00115	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 15:55	EPA 8021B	
Xylene (p/m)	ND	0.00230	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 15:55	EPA 8021B	
Xylene (o)	ND	0.00115	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 15:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.8 %	75-125		P0E0105	05/01/20 12:21	05/01/20 15:55	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.6 %	75-125		P0E0105	05/01/20 12:21	05/01/20 15:55	EPA 8021B	

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

Chloride	99.7	5.75	mg/kg dry	5	P0E0708	05/07/20 13:08	05/08/20 03:56	EPA 300.0	
% Moisture	13.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	28.7	mg/kg dry	1	P0E0111	05/01/20 15:02	05/02/20 11:20	TPH 8015M	
>C12-C28	ND	28.7	mg/kg dry	1	P0E0111	05/01/20 15:02	05/02/20 11:20	TPH 8015M	
>C28-C35	ND	28.7	mg/kg dry	1	P0E0111	05/01/20 15:02	05/02/20 11:20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P0E0111	05/01/20 15:02	05/02/20 11:20	TPH 8015M	
Surrogate: o-Terphenyl		113 %	70-130		P0E0111	05/01/20 15:02	05/02/20 11:20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.7	mg/kg dry	1	[CALC]	05/01/20 15:02	05/02/20 11:20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**East Sidewall 1 @ 2'**  
**0E01005-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00139	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 16:15	EPA 8021B	
Toluene	ND	0.00139	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 16:15	EPA 8021B	
Ethylbenzene	ND	0.00139	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 16:15	EPA 8021B	
Xylene (p/m)	ND	0.00278	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 16:15	EPA 8021B	
Xylene (o)	ND	0.00139	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 16:15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.2 %	75-125		P0E0105	05/01/20 12:21	05/01/20 16:15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.0 %	75-125		P0E0105	05/01/20 12:21	05/01/20 16:15	EPA 8021B	

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

Chloride	17.9	1.39	mg/kg dry	1	P0E0708	05/07/20 13:08	05/08/20 04:12	EPA 300.0	
% Moisture	28.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	34.7	mg/kg dry	1	P0E0111	05/01/20 15:02	05/02/20 11:43	TPH 8015M	
>C12-C28	ND	34.7	mg/kg dry	1	P0E0111	05/01/20 15:02	05/02/20 11:43	TPH 8015M	
>C28-C35	ND	34.7	mg/kg dry	1	P0E0111	05/01/20 15:02	05/02/20 11:43	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0E0111	05/01/20 15:02	05/02/20 11:43	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P0E0111	05/01/20 15:02	05/02/20 11:43	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	34.7	mg/kg dry	1	[CALC]	05/01/20 15:02	05/02/20 11:43	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**West Sidewall 1 @ 2'**  
**0E01005-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00156	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 16:36	EPA 8021B	
Toluene	ND	0.00156	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 16:36	EPA 8021B	
Ethylbenzene	ND	0.00156	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 16:36	EPA 8021B	
Xylene (p/m)	ND	0.00312	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 16:36	EPA 8021B	
Xylene (o)	ND	0.00156	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 16:36	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.9 %	75-125		P0E0105	05/01/20 12:21	05/01/20 16:36	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.5 %	75-125		P0E0105	05/01/20 12:21	05/01/20 16:36	EPA 8021B	

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

Chloride	33.6	1.56	mg/kg dry	1	P0E0708	05/07/20 13:08	05/08/20 04:28	EPA 300.0	
% Moisture	36.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	39.1	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 19:59	TPH 8015M	
>C12-C28	ND	39.1	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 19:59	TPH 8015M	
>C28-C35	ND	39.1	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 19:59	TPH 8015M	
Surrogate: 1-Chlorooctane		90.4 %	70-130		P0E0201	05/02/20 14:00	05/03/20 19:59	TPH 8015M	
Surrogate: o-Terphenyl		97.2 %	70-130		P0E0201	05/02/20 14:00	05/03/20 19:59	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	39.1	mg/kg dry	1	[CALC]	05/02/20 14:00	05/03/20 19:59	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**Bottom Hole 2 @ 9'**  
**0E01005-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00141	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 16:56	EPA 8021B	
Toluene	ND	0.00141	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 16:56	EPA 8021B	
Ethylbenzene	ND	0.00141	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 16:56	EPA 8021B	
Xylene (p/m)	ND	0.00282	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 16:56	EPA 8021B	
Xylene (o)	ND	0.00141	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 16:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.0 %	75-125		P0E0105	05/01/20 12:21	05/01/20 16:56	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.0 %	75-125		P0E0105	05/01/20 12:21	05/01/20 16:56	EPA 8021B	

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

Chloride	41.4	1.41	mg/kg dry	1	P0E0708	05/07/20 13:08	05/08/20 05:15	EPA 300.0	
% Moisture	29.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	35.2	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 20:21	TPH 8015M	
>C12-C28	ND	35.2	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 20:21	TPH 8015M	
>C28-C35	ND	35.2	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 20:21	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0E0201	05/02/20 14:00	05/03/20 20:21	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P0E0201	05/02/20 14:00	05/03/20 20:21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	35.2	mg/kg dry	1	[CALC]	05/02/20 14:00	05/03/20 20:21	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**East Sidewall 2 @ 2'**  
**0E01005-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00132	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 17:16	EPA 8021B	
Toluene	ND	0.00132	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 17:16	EPA 8021B	
Ethylbenzene	ND	0.00132	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 17:16	EPA 8021B	
Xylene (p/m)	ND	0.00263	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 17:16	EPA 8021B	
Xylene (o)	ND	0.00132	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 17:16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.7 %	75-125		P0E0105	05/01/20 12:21	05/01/20 17:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.6 %	75-125		P0E0105	05/01/20 12:21	05/01/20 17:16	EPA 8021B	

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

Chloride	190	1.32	mg/kg dry	1	P0E0708	05/07/20 13:08	05/08/20 06:03	EPA 300.0	
% Moisture	24.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	32.9	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 20:42	TPH 8015M	
>C12-C28	ND	32.9	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 20:42	TPH 8015M	
>C28-C35	ND	32.9	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 20:42	TPH 8015M	
Surrogate: 1-Chlorooctane		99.8 %	70-130		P0E0201	05/02/20 14:00	05/03/20 20:42	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0E0201	05/02/20 14:00	05/03/20 20:42	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	32.9	mg/kg dry	1	[CALC]	05/02/20 14:00	05/03/20 20:42	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**West Sidewall 2 @ 2'**  
**0E01005-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00125	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 17:37	EPA 8021B	
Toluene	ND	0.00125	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 17:37	EPA 8021B	
Ethylbenzene	ND	0.00125	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 17:37	EPA 8021B	
Xylene (p/m)	ND	0.00250	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 17:37	EPA 8021B	
Xylene (o)	ND	0.00125	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 17:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.4 %	75-125		P0E0105	05/01/20 12:21	05/01/20 17:37	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.9 %	75-125		P0E0105	05/01/20 12:21	05/01/20 17:37	EPA 8021B	

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

Chloride	16.7	1.25	mg/kg dry	1	P0E0708	05/07/20 13:08	05/08/20 06:19	EPA 300.0	
% Moisture	20.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	31.2	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 21:04	TPH 8015M	
>C12-C28	ND	31.2	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 21:04	TPH 8015M	
>C28-C35	ND	31.2	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 21:04	TPH 8015M	
Surrogate: 1-Chlorooctane		111 %	70-130		P0E0201	05/02/20 14:00	05/03/20 21:04	TPH 8015M	
Surrogate: o-Terphenyl		119 %	70-130		P0E0201	05/02/20 14:00	05/03/20 21:04	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	31.2	mg/kg dry	1	[CALC]	05/02/20 14:00	05/03/20 21:04	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**Bottom Hole 3 @ 9'**  
**0E01005-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00108	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 17:57	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 17:57	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 17:57	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 17:57	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 17:57	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.4 %	75-125		P0E0105	05/01/20 12:21	05/01/20 17:57	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.8 %	75-125		P0E0105	05/01/20 12:21	05/01/20 17:57	EPA 8021B	

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

Chloride	72.0	1.08	mg/kg dry	1	P0E0708	05/07/20 13:08	05/08/20 06:34	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	26.9	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 21:25	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 21:25	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 21:25	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P0E0201	05/02/20 14:00	05/03/20 21:25	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0E0201	05/02/20 14:00	05/03/20 21:25	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	05/02/20 14:00	05/03/20 21:25	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**East Sidewall 3 @ 2'**  
**0E01005-10 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00145	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 18:18	EPA 8021B	
Toluene	ND	0.00145	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 18:18	EPA 8021B	
Ethylbenzene	ND	0.00145	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 18:18	EPA 8021B	
Xylene (p/m)	ND	0.00290	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 18:18	EPA 8021B	
Xylene (o)	ND	0.00145	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 18:18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.5 %	75-125		P0E0105	05/01/20 12:21	05/01/20 18:18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.6 %	75-125		P0E0105	05/01/20 12:21	05/01/20 18:18	EPA 8021B	

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

Chloride	202	1.45	mg/kg dry	1	P0E0708	05/07/20 13:08	05/08/20 06:50	EPA 300.0	
% Moisture	31.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	36.2	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 22:29	TPH 8015M	
>C12-C28	ND	36.2	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 22:29	TPH 8015M	
>C28-C35	ND	36.2	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 22:29	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P0E0201	05/02/20 14:00	05/03/20 22:29	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P0E0201	05/02/20 14:00	05/03/20 22:29	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	36.2	mg/kg dry	1	[CALC]	05/02/20 14:00	05/03/20 22:29	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**West Sidewall 3 @ 2'**  
**0E01005-11 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00152	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 19:18	EPA 8021B	
Toluene	ND	0.00152	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 19:18	EPA 8021B	
Ethylbenzene	ND	0.00152	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 19:18	EPA 8021B	
Xylene (p/m)	ND	0.00303	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 19:18	EPA 8021B	
Xylene (o)	ND	0.00152	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 19:18	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.6 %	75-125		P0E0105	05/01/20 12:21	05/01/20 19:18	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		88.8 %	75-125		P0E0105	05/01/20 12:21	05/01/20 19:18	EPA 8021B	

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

Chloride	358	1.52	mg/kg dry	1	P0E0708	05/07/20 13:08	05/08/20 07:06	EPA 300.0	
% Moisture	34.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	37.9	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 22:51	TPH 8015M	
>C12-C28	ND	37.9	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 22:51	TPH 8015M	
>C28-C35	ND	37.9	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 22:51	TPH 8015M	
Surrogate: 1-Chlorooctane		109 %	70-130		P0E0201	05/02/20 14:00	05/03/20 22:51	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P0E0201	05/02/20 14:00	05/03/20 22:51	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	37.9	mg/kg dry	1	[CALC]	05/02/20 14:00	05/03/20 22:51	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**Bottom Hole 4 @ 9'**  
**0E01005-12 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00123	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 19:39	EPA 8021B	
Toluene	ND	0.00123	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 19:39	EPA 8021B	
Ethylbenzene	ND	0.00123	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 19:39	EPA 8021B	
Xylene (p/m)	ND	0.00247	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 19:39	EPA 8021B	
Xylene (o)	ND	0.00123	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 19:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.6 %	75-125		P0E0105	05/01/20 12:21	05/01/20 19:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.7 %	75-125		P0E0105	05/01/20 12:21	05/01/20 19:39	EPA 8021B	

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

Chloride	263	1.23	mg/kg dry	1	P0E0708	05/07/20 13:08	05/08/20 07:22	EPA 300.0	
% Moisture	19.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	30.9	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 23:12	TPH 8015M	
>C12-C28	ND	30.9	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 23:12	TPH 8015M	
>C28-C35	ND	30.9	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 23:12	TPH 8015M	
Surrogate: 1-Chlorooctane		102 %	70-130		P0E0201	05/02/20 14:00	05/03/20 23:12	TPH 8015M	
Surrogate: o-Terphenyl		112 %	70-130		P0E0201	05/02/20 14:00	05/03/20 23:12	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.9	mg/kg dry	1	[CALC]	05/02/20 14:00	05/03/20 23:12	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**East Sidewall 4 @ 2'**  
**0E01005-13 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00128	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 19:59	EPA 8021B	
Toluene	ND	0.00128	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 19:59	EPA 8021B	
Ethylbenzene	ND	0.00128	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 19:59	EPA 8021B	
Xylene (p/m)	ND	0.00256	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 19:59	EPA 8021B	
Xylene (o)	ND	0.00128	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 19:59	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.5 %	75-125		P0E0105	05/01/20 12:21	05/01/20 19:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.7 %	75-125		P0E0105	05/01/20 12:21	05/01/20 19:59	EPA 8021B	

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

Chloride	6.50	1.28	mg/kg dry	1	P0E0708	05/07/20 13:08	05/08/20 07:38	EPA 300.0	
% Moisture	22.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	32.1	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 23:33	TPH 8015M	
>C12-C28	ND	32.1	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 23:33	TPH 8015M	
>C28-C35	ND	32.1	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 23:33	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P0E0201	05/02/20 14:00	05/03/20 23:33	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0E0201	05/02/20 14:00	05/03/20 23:33	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	32.1	mg/kg dry	1	[CALC]	05/02/20 14:00	05/03/20 23:33	calc	

Permian Basin Environmental Lab, L.P.

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

Page 15 of 42

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**West Sidewall 4 @ 2'**  
**0E01005-14 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00125	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 20:19	EPA 8021B	
Toluene	ND	0.00125	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 20:19	EPA 8021B	
Ethylbenzene	ND	0.00125	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 20:19	EPA 8021B	
Xylene (p/m)	ND	0.00250	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 20:19	EPA 8021B	
Xylene (o)	ND	0.00125	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 20:19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.9 %	75-125		P0E0105	05/01/20 12:21	05/01/20 20:19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.8 %	75-125		P0E0105	05/01/20 12:21	05/01/20 20:19	EPA 8021B	

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

Chloride	36.3	1.25	mg/kg dry	1	P0E0708	05/07/20 13:08	05/08/20 07:54	EPA 300.0	
% Moisture	20.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	31.2	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 23:55	TPH 8015M	
>C12-C28	ND	31.2	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 23:55	TPH 8015M	
>C28-C35	ND	31.2	mg/kg dry	1	P0E0201	05/02/20 14:00	05/03/20 23:55	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P0E0201	05/02/20 14:00	05/03/20 23:55	TPH 8015M	
Surrogate: o-Terphenyl		122 %	70-130		P0E0201	05/02/20 14:00	05/03/20 23:55	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	31.2	mg/kg dry	1	[CALC]	05/02/20 14:00	05/03/20 23:55	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**Bottom Hole 5 @ 9'**  
**0E01005-15 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00114	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 20:40	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 20:40	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 20:40	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 20:40	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 20:40	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.1 %	75-125		P0E0105	05/01/20 12:21	05/01/20 20:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.3 %	75-125		P0E0105	05/01/20 12:21	05/01/20 20:40	EPA 8021B	

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

Chloride	182	5.68	mg/kg dry	5	P0E0708	05/07/20 13:08	05/08/20 08:09	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	28.4	mg/kg dry	1	P0E0201	05/02/20 14:00	05/04/20 00:16	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P0E0201	05/02/20 14:00	05/04/20 00:16	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P0E0201	05/02/20 14:00	05/04/20 00:16	TPH 8015M	
Surrogate: 1-Chlorooctane		110 %	70-130		P0E0201	05/02/20 14:00	05/04/20 00:16	TPH 8015M	
Surrogate: o-Terphenyl		121 %	70-130		P0E0201	05/02/20 14:00	05/04/20 00:16	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	05/02/20 14:00	05/04/20 00:16	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**East Sidewall 5 @ 2'**  
**0E01005-16 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00128	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 21:01	EPA 8021B	
Toluene	ND	0.00128	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 21:01	EPA 8021B	
Ethylbenzene	ND	0.00128	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 21:01	EPA 8021B	
Xylene (p/m)	ND	0.00256	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 21:01	EPA 8021B	
Xylene (o)	ND	0.00128	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 21:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.4 %	75-125		P0E0105	05/01/20 12:21	05/01/20 21:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.9 %	75-125		P0E0105	05/01/20 12:21	05/01/20 21:01	EPA 8021B	

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

Chloride	35.4	1.28	mg/kg dry	1	P0E0709	05/07/20 13:10	05/08/20 09:44	EPA 300.0	
% Moisture	22.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	32.1	mg/kg dry	1	P0E0201	05/02/20 14:00	05/04/20 00:37	TPH 8015M	
>C12-C28	ND	32.1	mg/kg dry	1	P0E0201	05/02/20 14:00	05/04/20 00:37	TPH 8015M	
>C28-C35	ND	32.1	mg/kg dry	1	P0E0201	05/02/20 14:00	05/04/20 00:37	TPH 8015M	
Surrogate: 1-Chlorooctane		104 %	70-130		P0E0201	05/02/20 14:00	05/04/20 00:37	TPH 8015M	
Surrogate: o-Terphenyl		115 %	70-130		P0E0201	05/02/20 14:00	05/04/20 00:37	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	32.1	mg/kg dry	1	[CALC]	05/02/20 14:00	05/04/20 00:37	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**West Sidewall 5 @ 2'**  
**0E01005-17 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00132	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 21:21	EPA 8021B	
Toluene	ND	0.00132	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 21:21	EPA 8021B	
Ethylbenzene	ND	0.00132	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 21:21	EPA 8021B	
Xylene (p/m)	ND	0.00263	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 21:21	EPA 8021B	
Xylene (o)	ND	0.00132	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 21:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.1 %	75-125		P0E0105	05/01/20 12:21	05/01/20 21:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.3 %	75-125		P0E0105	05/01/20 12:21	05/01/20 21:21	EPA 8021B	

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

Chloride	101	1.32	mg/kg dry	1	P0E0709	05/07/20 13:10	05/08/20 10:31	EPA 300.0	
% Moisture	24.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	32.9	mg/kg dry	1	P0E0201	05/02/20 14:00	05/04/20 00:59	TPH 8015M	
>C12-C28	ND	32.9	mg/kg dry	1	P0E0201	05/02/20 14:00	05/04/20 00:59	TPH 8015M	
>C28-C35	ND	32.9	mg/kg dry	1	P0E0201	05/02/20 14:00	05/04/20 00:59	TPH 8015M	
Surrogate: 1-Chlorooctane		107 %	70-130		P0E0201	05/02/20 14:00	05/04/20 00:59	TPH 8015M	
Surrogate: o-Terphenyl		118 %	70-130		P0E0201	05/02/20 14:00	05/04/20 00:59	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	32.9	mg/kg dry	1	[CALC]	05/02/20 14:00	05/04/20 00:59	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**Bottom Hole 6 @ 9'**  
**0E01005-18 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00127	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 21:41	EPA 8021B	
Toluene	ND	0.00127	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 21:41	EPA 8021B	
Ethylbenzene	ND	0.00127	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 21:41	EPA 8021B	
Xylene (p/m)	ND	0.00253	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 21:41	EPA 8021B	
Xylene (o)	ND	0.00127	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 21:41	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.5 %	75-125		P0E0105	05/01/20 12:21	05/01/20 21:41	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		90.8 %	75-125		P0E0105	05/01/20 12:21	05/01/20 21:41	EPA 8021B	

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

Chloride	21.1	1.27	mg/kg dry	1	P0E0709	05/07/20 13:10	05/08/20 10:47	EPA 300.0	
% Moisture	21.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	31.6	mg/kg dry	1	P0E0201	05/02/20 14:00	05/04/20 01:20	TPH 8015M	
>C12-C28	ND	31.6	mg/kg dry	1	P0E0201	05/02/20 14:00	05/04/20 01:20	TPH 8015M	
>C28-C35	ND	31.6	mg/kg dry	1	P0E0201	05/02/20 14:00	05/04/20 01:20	TPH 8015M	
Surrogate: 1-Chlorooctane		105 %	70-130		P0E0201	05/02/20 14:00	05/04/20 01:20	TPH 8015M	
Surrogate: o-Terphenyl		117 %	70-130		P0E0201	05/02/20 14:00	05/04/20 01:20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	31.6	mg/kg dry	1	[CALC]	05/02/20 14:00	05/04/20 01:20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**East Sidewall 6 @ 2'**  
**0E01005-19 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00128	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 22:02	EPA 8021B	
Toluene	ND	0.00128	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 22:02	EPA 8021B	
Ethylbenzene	ND	0.00128	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 22:02	EPA 8021B	
Xylene (p/m)	ND	0.00256	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 22:02	EPA 8021B	
Xylene (o)	ND	0.00128	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 22:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.1 %	75-125		P0E0105	05/01/20 12:21	05/01/20 22:02	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.8 %	75-125		P0E0105	05/01/20 12:21	05/01/20 22:02	EPA 8021B	

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

Chloride	8.95	1.28	mg/kg dry	1	P0E0709	05/07/20 13:10	05/08/20 11:03	EPA 300.0	
% Moisture	22.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	32.1	mg/kg dry	1	P0E0201	05/02/20 14:00	05/04/20 01:42	TPH 8015M	
>C12-C28	ND	32.1	mg/kg dry	1	P0E0201	05/02/20 14:00	05/04/20 01:42	TPH 8015M	
>C28-C35	ND	32.1	mg/kg dry	1	P0E0201	05/02/20 14:00	05/04/20 01:42	TPH 8015M	
Surrogate: 1-Chlorooctane		99.7 %	70-130		P0E0201	05/02/20 14:00	05/04/20 01:42	TPH 8015M	
Surrogate: o-Terphenyl		111 %	70-130		P0E0201	05/02/20 14:00	05/04/20 01:42	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	32.1	mg/kg dry	1	[CALC]	05/02/20 14:00	05/04/20 01:42	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**West Sidewall 6 @ 2'**  
**0E01005-20 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00152	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 22:23	EPA 8021B	
Toluene	ND	0.00152	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 22:23	EPA 8021B	
Ethylbenzene	ND	0.00152	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 22:23	EPA 8021B	
Xylene (p/m)	ND	0.00303	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 22:23	EPA 8021B	
Xylene (o)	ND	0.00152	mg/kg dry	1	P0E0105	05/01/20 12:21	05/01/20 22:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.4 %	75-125		P0E0105	05/01/20 12:21	05/01/20 22:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		89.6 %	75-125		P0E0105	05/01/20 12:21	05/01/20 22:23	EPA 8021B	

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

Chloride	84.5	1.52	mg/kg dry	1	P0E0709	05/07/20 13:10	05/08/20 11:18	EPA 300.0	
% Moisture	34.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	37.9	mg/kg dry	1	P0E0202	05/02/20 14:00	05/02/20 16:25	TPH 8015M	
>C12-C28	ND	37.9	mg/kg dry	1	P0E0202	05/02/20 14:00	05/02/20 16:25	TPH 8015M	
>C28-C35	ND	37.9	mg/kg dry	1	P0E0202	05/02/20 14:00	05/02/20 16:25	TPH 8015M	
Surrogate: 1-Chlorooctane		97.7 %	70-130		P0E0202	05/02/20 14:00	05/02/20 16:25	TPH 8015M	
Surrogate: o-Terphenyl		105 %	70-130		P0E0202	05/02/20 14:00	05/02/20 16:25	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	37.9	mg/kg dry	1	[CALC]	05/02/20 14:00	05/02/20 16:25	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**Bottom Hole 7 @ 9'**  
**0E01005-21 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00114	mg/kg dry	1	P0E0106	05/01/20 12:27	05/02/20 01:07	EPA 8021B	
Toluene	ND	0.00114	mg/kg dry	1	P0E0106	05/01/20 12:27	05/02/20 01:07	EPA 8021B	
Ethylbenzene	ND	0.00114	mg/kg dry	1	P0E0106	05/01/20 12:27	05/02/20 01:07	EPA 8021B	
Xylene (p/m)	ND	0.00227	mg/kg dry	1	P0E0106	05/01/20 12:27	05/02/20 01:07	EPA 8021B	
Xylene (o)	ND	0.00114	mg/kg dry	1	P0E0106	05/01/20 12:27	05/02/20 01:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.7 %	75-125		P0E0106	05/01/20 12:27	05/02/20 01:07	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.5 %	75-125		P0E0106	05/01/20 12:27	05/02/20 01:07	EPA 8021B	

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

Chloride	63.6	1.14	mg/kg dry	1	P0E0709	05/07/20 13:10	05/08/20 11:34	EPA 300.0	
% Moisture	12.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	28.4	mg/kg dry	1	P0E0202	05/02/20 14:00	05/02/20 16:49	TPH 8015M	
>C12-C28	ND	28.4	mg/kg dry	1	P0E0202	05/02/20 14:00	05/02/20 16:49	TPH 8015M	
>C28-C35	ND	28.4	mg/kg dry	1	P0E0202	05/02/20 14:00	05/02/20 16:49	TPH 8015M	
Surrogate: 1-Chlorooctane		99.8 %	70-130		P0E0202	05/02/20 14:00	05/02/20 16:49	TPH 8015M	
Surrogate: o-Terphenyl		107 %	70-130		P0E0202	05/02/20 14:00	05/02/20 16:49	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	28.4	mg/kg dry	1	[CALC]	05/02/20 14:00	05/02/20 16:49	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**East Sidewall 7 @ 2'**  
**0E01005-22 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00130	mg/kg dry	1	P0E0106	05/01/20 12:27	05/02/20 01:27	EPA 8021B	
Toluene	ND	0.00130	mg/kg dry	1	P0E0106	05/01/20 12:27	05/02/20 01:27	EPA 8021B	
Ethylbenzene	ND	0.00130	mg/kg dry	1	P0E0106	05/01/20 12:27	05/02/20 01:27	EPA 8021B	
Xylene (p/m)	ND	0.00260	mg/kg dry	1	P0E0106	05/01/20 12:27	05/02/20 01:27	EPA 8021B	
Xylene (o)	ND	0.00130	mg/kg dry	1	P0E0106	05/01/20 12:27	05/02/20 01:27	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.9 %	75-125		P0E0106	05/01/20 12:27	05/02/20 01:27	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		88.7 %	75-125		P0E0106	05/01/20 12:27	05/02/20 01:27	EPA 8021B	

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

Chloride	4.25	1.30	mg/kg dry	1	P0E0709	05/07/20 13:10	05/08/20 11:50	EPA 300.0	
% Moisture	23.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	32.5	mg/kg dry	1	P0E0202	05/02/20 14:00	05/02/20 17:13	TPH 8015M	
>C12-C28	ND	32.5	mg/kg dry	1	P0E0202	05/02/20 14:00	05/02/20 17:13	TPH 8015M	
>C28-C35	ND	32.5	mg/kg dry	1	P0E0202	05/02/20 14:00	05/02/20 17:13	TPH 8015M	
Surrogate: 1-Chlorooctane		99.5 %	70-130		P0E0202	05/02/20 14:00	05/02/20 17:13	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P0E0202	05/02/20 14:00	05/02/20 17:13	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	32.5	mg/kg dry	1	[CALC]	05/02/20 14:00	05/02/20 17:13	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**West Sidewall 7 @ 2'**  
**0E01005-23 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00116	mg/kg dry	1	P0E0106	05/01/20 12:27	05/02/20 01:48	EPA 8021B	
Toluene	ND	0.00116	mg/kg dry	1	P0E0106	05/01/20 12:27	05/02/20 01:48	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P0E0106	05/01/20 12:27	05/02/20 01:48	EPA 8021B	
Xylene (p/m)	ND	0.00233	mg/kg dry	1	P0E0106	05/01/20 12:27	05/02/20 01:48	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P0E0106	05/01/20 12:27	05/02/20 01:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		91.3 %	75-125		P0E0106	05/01/20 12:27	05/02/20 01:48	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.0 %	75-125		P0E0106	05/01/20 12:27	05/02/20 01:48	EPA 8021B	

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

Chloride	35.5	1.16	mg/kg dry	1	P0E0709	05/07/20 13:10	05/08/20 12:06	EPA 300.0	
% Moisture	14.0	0.1	%	1	P0E0402	05/04/20 09:01	05/04/20 10:12	ASTM D2216	

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

C6-C12	ND	29.1	mg/kg dry	1	P0E0202	05/02/20 14:00	05/03/20 10:04	TPH 8015M	
>C12-C28	ND	29.1	mg/kg dry	1	P0E0202	05/02/20 14:00	05/03/20 10:04	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P0E0202	05/02/20 14:00	05/03/20 10:04	TPH 8015M	
Surrogate: 1-Chlorooctane		114 %	70-130		P0E0202	05/02/20 14:00	05/03/20 10:04	TPH 8015M	
Surrogate: o-Terphenyl		123 %	70-130		P0E0202	05/02/20 14:00	05/03/20 10:04	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	29.1	mg/kg dry	1	[CALC]	05/02/20 14:00	05/03/20 10:04	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
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
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**Batch P0E0105 - General Preparation (GC)****Blank (P0E0105-BLK1)**

Prepared &amp; Analyzed: 05/01/20

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: 4-Bromofluorobenzene	0.109		"	0.120		91.1	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.8	75-125			

**LCS (P0E0105-BS1)**

Prepared &amp; Analyzed: 05/01/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	70-130			
Toluene	0.101	0.00100	"	0.100		101	70-130			
Ethylbenzene	0.101	0.00100	"	0.100		101	70-130			
Xylene (p/m)	0.217	0.00200	"	0.200		109	70-130			
Xylene (o)	0.106	0.00100	"	0.100		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.3	75-125			

**LCS Dup (P0E0105-BSD1)**

Prepared &amp; Analyzed: 05/01/20

Benzene	0.108	0.00100	mg/kg wet	0.100		108	70-130	6.92	20	
Toluene	0.109	0.00100	"	0.100		109	70-130	7.51	20	
Ethylbenzene	0.104	0.00100	"	0.100		104	70-130	2.99	20	
Xylene (p/m)	0.237	0.00200	"	0.200		119	70-130	8.72	20	
Xylene (o)	0.119	0.00100	"	0.100		119	70-130	11.6	20	
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		96.0	75-125			

**Calibration Blank (P0E0105-CCB1)**

Prepared &amp; Analyzed: 05/01/20

Benzene	0.00		mg/kg wet							
Toluene	0.570		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.490		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		93.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.2	75-125			

Permian Basin Environmental Lab, L.P.

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

Page 26 of 42

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
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
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**Batch P0E0105 - General Preparation (GC)****Calibration Blank (P0E0105-CCB2)**

Prepared &amp; Analyzed: 05/01/20

Benzene	0.00		mg/kg wet							
Toluene	0.560		"							
Ethylbenzene	0.350		"							
Xylene (p/m)	0.600		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.2	75-125			

**Calibration Check (P0E0105-CCV1)**

Prepared &amp; Analyzed: 05/01/20

Benzene	0.111	0.00100	mg/kg wet	0.100		111	80-120			
Toluene	0.110	0.00100	"	0.100		110	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.227	0.00200	"	0.200		113	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.9	75-125			

**Calibration Check (P0E0105-CCV2)**

Prepared &amp; Analyzed: 05/01/20

Benzene	0.103	0.00100	mg/kg wet	0.100		103	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.211	0.00200	"	0.200		105	80-120			
Xylene (o)	0.109	0.00100	"	0.100		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.5	75-125			

**Calibration Check (P0E0105-CCV3)**

Prepared &amp; Analyzed: 05/01/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.208	0.00200	"	0.200		104	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.3	75-125			

Permian Basin Environmental Lab, L.P.

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Project Number: 12174  
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
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**Batch P0E0105 - General Preparation (GC)****Matrix Spike (P0E0105-MS1)**

Source: 0E01005-01

Prepared &amp; Analyzed: 05/01/20

Benzene	0.127	0.00139	mg/kg dry	0.139	ND	91.1	80-120			
Toluene	0.124	0.00139	"	0.139	ND	89.5	80-120			
Ethylbenzene	0.149	0.00139	"	0.139	ND	108	80-120			
Xylene (p/m)	0.263	0.00278	"	0.278	ND	94.8	80-120			
Xylene (o)	0.132	0.00139	"	0.139	ND	95.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.156		"	0.167		93.4	75-125			
Surrogate: 1,4-Difluorobenzene	0.163		"	0.167		97.6	75-125			

**Matrix Spike Dup (P0E0105-MSD1)**

Source: 0E01005-01

Prepared &amp; Analyzed: 05/01/20

Benzene	0.124	0.00139	mg/kg dry	0.139	ND	89.4	80-120	1.85	20	
Toluene	0.122	0.00139	"	0.139	ND	88.1	80-120	1.64	20	
Ethylbenzene	0.146	0.00139	"	0.139	ND	105	80-120	2.35	20	
Xylene (p/m)	0.257	0.00278	"	0.278	ND	92.4	80-120	2.51	20	
Xylene (o)	0.129	0.00139	"	0.139	ND	93.1	80-120	2.30	20	
Surrogate: 1,4-Difluorobenzene	0.162		"	0.167		97.2	75-125			
Surrogate: 4-Bromofluorobenzene	0.154		"	0.167		92.5	75-125			

**Batch P0E0106 - General Preparation (GC)****Blank (P0E0106-BLK1)**

Prepared: 05/01/20 Analyzed: 05/02/20

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	0.112		"	0.120		93.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		91.0	75-125			

Permian Basin Environmental Lab, L.P.

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

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13000 West County Road 100  
Odessa TX, 79765

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
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
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**Batch P0E0106 - General Preparation (GC)****LCS (P0E0106-BS1)**

Prepared: 05/01/20 Analyzed: 05/02/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130			
Toluene	0.103	0.00100	"	0.100		103	70-130			
Ethylbenzene	0.109	0.00100	"	0.100		109	70-130			
Xylene (p/m)	0.215	0.00200	"	0.200		108	70-130			
Xylene (o)	0.109	0.00100	"	0.100		109	70-130			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		97.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.4	75-125			

**LCS Dup (P0E0106-BS1)**

Prepared: 05/01/20 Analyzed: 05/02/20

Benzene	0.105	0.00100	mg/kg wet	0.100		105	70-130	1.30	20	
Toluene	0.105	0.00100	"	0.100		105	70-130	2.06	20	
Ethylbenzene	0.111	0.00100	"	0.100		111	70-130	1.41	20	
Xylene (p/m)	0.217	0.00200	"	0.200		109	70-130	1.09	20	
Xylene (o)	0.111	0.00100	"	0.100		111	70-130	1.24	20	
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		97.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		91.0	75-125			

**Calibration Blank (P0E0106-CCB2)**

Prepared: 05/01/20 Analyzed: 05/02/20

Benzene	0.00		mg/kg wet							
Toluene	0.660		"							
Ethylbenzene	0.310		"							
Xylene (p/m)	0.840		"							
Xylene (o)	0.370		"							
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		91.2	75-125			

**Calibration Check (P0E0106-CCV2)**

Prepared: 05/01/20 Analyzed: 05/02/20

Benzene	0.0984	0.00100	mg/kg wet	0.100		98.4	80-120			
Toluene	0.0997	0.00100	"	0.100		99.7	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.201	0.00200	"	0.200		100	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.4	75-125			

Permian Basin Environmental Lab, L.P.

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Project: Centennial Merchant Livestock 24 SC 2H  
 Project Number: 12174  
 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
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**Batch P0E0106 - General Preparation (GC)**

<b>Matrix Spike (P0E0106-MS1)</b>	<b>Source: 0E01005-21</b>			<b>Prepared: 05/01/20 Analyzed: 05/02/20</b>						
Benzene	0.0661	0.00114	mg/kg dry	0.114	ND	58.2	80-120			QM-07
Toluene	0.0638	0.00114	"	0.114	ND	56.1	80-120			QM-07
Ethylbenzene	0.0985	0.00114	"	0.114	ND	86.7	80-120			
Xylene (p/m)	0.176	0.00227	"	0.227	ND	77.5	80-120			QM-07
Xylene (o)	0.0931	0.00114	"	0.114	ND	81.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.129		"	0.136		94.5	75-125			
Surrogate: 1,4-Difluorobenzene	0.131		"	0.136		95.9	75-125			

<b>Matrix Spike Dup (P0E0106-MSD1)</b>	<b>Source: 0E01005-21</b>			<b>Prepared: 05/01/20 Analyzed: 05/02/20</b>						
Benzene	0.0631	0.00114	mg/kg dry	0.114	ND	55.5	80-120	4.70	20	QM-07
Toluene	0.0588	0.00114	"	0.114	ND	51.8	80-120	8.10	20	QM-07
Ethylbenzene	0.0980	0.00114	"	0.114	ND	86.2	80-120	0.544	20	
Xylene (p/m)	0.177	0.00227	"	0.227	ND	77.7	80-120	0.245	20	QM-07
Xylene (o)	0.0913	0.00114	"	0.114	ND	80.3	80-120	1.97	20	
Surrogate: 4-Bromofluorobenzene	0.128		"	0.136		93.9	75-125			
Surrogate: 1,4-Difluorobenzene	0.132		"	0.136		97.1	75-125			

Permian Basin Environmental Lab, L.P.

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 13000 West County Road 100  
 Odessa TX, 79765

Project: Centennial Merchant Livestock 24 SC 2H  
 Project Number: 12174  
 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 P0E0402 - *** DEFAULT PREP ***</b>										
<b>Blank (P0E0402-BLK1)</b>										Prepared & Analyzed: 05/04/20
% Moisture	ND	0.1	%							
<b>Duplicate (P0E0402-DUP1)</b>		<b>Source: 0D30015-26</b>								Prepared & Analyzed: 05/04/20
% Moisture	10.0	0.1	%		9.0			10.5	20	
<b>Duplicate (P0E0402-DUP2)</b>		<b>Source: 0D30015-53</b>								Prepared & Analyzed: 05/04/20
% Moisture	8.0	0.1	%		8.0			0.00	20	
<b>Duplicate (P0E0402-DUP3)</b>		<b>Source: 0D30015-80</b>								Prepared & Analyzed: 05/04/20
% Moisture	7.0	0.1	%		6.0			15.4	20	
<b>Duplicate (P0E0402-DUP4)</b>		<b>Source: 0E01002-11</b>								Prepared & Analyzed: 05/04/20
% Moisture	9.0	0.1	%		8.0			11.8	20	
<b>Duplicate (P0E0402-DUP5)</b>		<b>Source: 0E01004-04</b>								Prepared & Analyzed: 05/04/20
% Moisture	8.0	0.1	%		8.0			0.00	20	
<b>Duplicate (P0E0402-DUP6)</b>		<b>Source: 0E01004-31</b>								Prepared & Analyzed: 05/04/20
% Moisture	11.0	0.1	%		11.0			0.00	20	
<b>Duplicate (P0E0402-DUP7)</b>		<b>Source: 0E01009-02</b>								Prepared & Analyzed: 05/04/20
% Moisture	12.0	0.1	%		12.0			0.00	20	
<b>Duplicate (P0E0402-DUP8)</b>		<b>Source: 0D28007-56</b>								Prepared & Analyzed: 05/04/20
% Moisture	11.0	0.1	%		10.0			9.52	20	
<b>Duplicate (P0E0402-DUP9)</b>		<b>Source: 0E01012-04</b>								Prepared & Analyzed: 05/04/20
% Moisture	4.0	0.1	%		4.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
 Project Number: 12174  
 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 P0E0708 - *** DEFAULT PREP ***</b>										
<b>Blank (P0E0708-BLK1)</b>										
Chloride	ND	0.100	mg/kg wet							Prepared: 05/07/20 Analyzed: 05/08/20
<b>LCS (P0E0708-BS1)</b>										
Chloride	440	1.00	mg/kg wet	400		110	80-120			Prepared: 05/07/20 Analyzed: 05/08/20
<b>LCS Dup (P0E0708-BSD1)</b>										
Chloride	410	1.00	mg/kg wet	400		102	80-120	7.07	20	Prepared: 05/07/20 Analyzed: 05/08/20
<b>Calibration Blank (P0E0708-CCB1)</b>										
Chloride	0.00		mg/kg wet							Prepared: 05/07/20 Analyzed: 05/08/20
<b>Calibration Blank (P0E0708-CCB2)</b>										
Chloride	0.00		mg/kg wet							Prepared: 05/07/20 Analyzed: 05/08/20
<b>Calibration Check (P0E0708-CCV1)</b>										
Chloride	20.2		mg/kg	20.0		101	0-200			Prepared: 05/07/20 Analyzed: 05/08/20
<b>Calibration Check (P0E0708-CCV2)</b>										
Chloride	20.5		mg/kg	20.0		102	0-200			Prepared: 05/07/20 Analyzed: 05/08/20
<b>Calibration Check (P0E0708-CCV3)</b>										
Chloride	21.1		mg/kg	20.0		105	0-200			Prepared: 05/07/20 Analyzed: 05/08/20
<b>Matrix Spike (P0E0708-MS1)</b>										
Chloride	590	1.15	mg/kg dry	575	41.0	95.5	80-120			Source: 0E01004-23 Prepared: 05/07/20 Analyzed: 05/08/20
<b>Matrix Spike (P0E0708-MS2)</b>										
Chloride	718	1.41	mg/kg dry	704	41.4	96.1	80-120			Source: 0E01005-06 Prepared: 05/07/20 Analyzed: 05/08/20

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Project Number: 12174  
Project Manager: Matt Green

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**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 P0E0708 - *** DEFAULT PREP ***</b>										
<b>Matrix Spike Dup (P0E0708-MSD1)</b> Source: 0E01004-23 Prepared: 05/07/20 Analyzed: 05/08/20										
Chloride	590	1.15	mg/kg dry	575	41.0	95.5	80-120	0.0331	20	
<b>Matrix Spike Dup (P0E0708-MSD2)</b> Source: 0E01005-06 Prepared: 05/07/20 Analyzed: 05/08/20										
Chloride	710	1.41	mg/kg dry	704	41.4	95.0	80-120	1.15	20	
<b>Batch P0E0709 - *** DEFAULT PREP ***</b>										
<b>Blank (P0E0709-BLK1)</b> Prepared: 05/07/20 Analyzed: 05/08/20										
Chloride	ND	0.100	mg/kg wet							
<b>LCS (P0E0709-BS1)</b> Prepared: 05/07/20 Analyzed: 05/08/20										
Chloride	400	1.00	mg/kg wet	400		100	80-120			
<b>LCS Dup (P0E0709-BSD1)</b> Prepared: 05/07/20 Analyzed: 05/08/20										
Chloride	403	1.00	mg/kg wet	400		101	80-120	0.764	20	
<b>Calibration Blank (P0E0709-CCB1)</b> Prepared: 05/07/20 Analyzed: 05/08/20										
Chloride	0.00		mg/kg wet							
<b>Calibration Blank (P0E0709-CCB2)</b> Prepared: 05/07/20 Analyzed: 05/08/20										
Chloride	0.00		mg/kg wet							
<b>Calibration Check (P0E0709-CCV1)</b> Prepared: 05/07/20 Analyzed: 05/08/20										
Chloride	21.1		mg/kg	20.0		105	0-200			
<b>Calibration Check (P0E0709-CCV2)</b> Prepared: 05/07/20 Analyzed: 05/08/20										
Chloride	20.8		mg/kg	20.0		104	0-200			

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E Tech Environmental & Safety Solutions, Inc.  
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 Odessa TX, 79765

Project: Centennial Merchant Livestock 24 SC 2H  
 Project Number: 12174  
 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 P0E0709 - *** DEFAULT PREP ***</b>										
<b>Calibration Check (P0E0709-CCV3)</b>				Prepared: 05/07/20 Analyzed: 05/08/20						
Chloride	21.1		mg/kg	20.0		106	0-200			
<b>Matrix Spike (P0E0709-MS1)</b>				Source: 0E01005-16 Prepared: 05/07/20 Analyzed: 05/08/20						
Chloride	781	1.28	mg/kg dry	641	35.4	116	80-120			
<b>Matrix Spike (P0E0709-MS2)</b>				Source: 0E04003-01 Prepared: 05/07/20 Analyzed: 05/08/20						
Chloride	5170	10.9	mg/kg dry	1090	4020	106	80-120			
<b>Matrix Spike Dup (P0E0709-MSD1)</b>				Source: 0E01005-16 Prepared: 05/07/20 Analyzed: 05/08/20						
Chloride	865	1.28	mg/kg dry	641	35.4	129	80-120	10.3	20	QM-07
<b>Matrix Spike Dup (P0E0709-MSD2)</b>				Source: 0E04003-01 Prepared: 05/07/20 Analyzed: 05/08/20						
Chloride	5230	10.9	mg/kg dry	1090	4020	111	80-120	1.06	20	

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Odessa TX, 79765

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
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 P0E0111 - TX 1005</b>										
<b>Blank (P0E0111-BLK1)</b>										
Prepared: 05/01/20 Analyzed: 05/02/20										
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	98.7		"	100		98.7	70-130			
Surrogate: o-Terphenyl	49.9		"	50.0		99.8	70-130			
<b>LCS (P0E0111-BS1)</b>										
Prepared: 05/01/20 Analyzed: 05/02/20										
C6-C12	1150	25.0	mg/kg wet	1000		115	75-125			
>C12-C28	1230	25.0	"	1000		123	75-125			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	51.9		"	50.0		104	70-130			
<b>LCS Dup (P0E0111-BSD1)</b>										
Prepared: 05/01/20 Analyzed: 05/02/20										
C6-C12	1160	25.0	mg/kg wet	1000		116	75-125	0.501	20	
>C12-C28	1140	25.0	"	1000		114	75-125	7.44	20	
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	47.3		"	50.0		94.5	70-130			
<b>Calibration Blank (P0E0111-CCB1)</b>										
Prepared: 05/01/20 Analyzed: 05/02/20										
C6-C12	13.4		mg/kg wet							
>C12-C28	7.92		"							
Surrogate: 1-Chlorooctane	97.5		"	100		97.5	70-130			
Surrogate: o-Terphenyl	49.2		"	50.0		98.4	70-130			
<b>Calibration Blank (P0E0111-CCB2)</b>										
Prepared: 05/01/20 Analyzed: 05/02/20										
C6-C12	12.9		mg/kg wet							
>C12-C28	12.6		"							
Surrogate: 1-Chlorooctane	96.0		"	100		96.0	70-130			
Surrogate: o-Terphenyl	48.6		"	50.0		97.3	70-130			

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
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
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**Batch P0E0111 - TX 1005****Calibration Check (P0E0111-CCV1)**

Prepared: 05/01/20 Analyzed: 05/02/20

C6-C12	556	25.0	mg/kg wet	500		111	85-115			
>C12-C28	557	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	48.0		"	50.0		96.0	70-130			

**Calibration Check (P0E0111-CCV2)**

Prepared: 05/01/20 Analyzed: 05/02/20

C6-C12	526	25.0	mg/kg wet	500		105	85-115			
>C12-C28	556	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	99.9		"	100		99.9	70-130			
Surrogate: o-Terphenyl	47.0		"	50.0		94.0	70-130			

**Duplicate (P0E0111-DUP1)**

Source: 0E01005-04

Prepared: 05/01/20 Analyzed: 05/02/20

C6-C12	20.0	34.7	mg/kg dry		21.2			5.79	20	
>C12-C28	15.4	34.7	"		ND				20	
Surrogate: 1-Chlorooctane	146		"	139		105	70-130			
Surrogate: o-Terphenyl	78.2		"	69.4		113	70-130			

**Batch P0E0201 - TX 1005****Blank (P0E0201-BLK1)**

Prepared: 05/02/20 Analyzed: 05/03/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	77.5		"	100		77.5	70-130			
Surrogate: o-Terphenyl	40.1		"	50.0		80.2	70-130			

**LCS (P0E0201-BS1)**

Prepared: 05/02/20 Analyzed: 05/03/20

C6-C12	1030	25.0	mg/kg wet	1000		103	75-125			
>C12-C28	1210	25.0	"	1000		121	75-125			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	39.7		"	50.0		79.3	70-130			

Permian Basin Environmental Lab, L.P.

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
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 P0E0201 - TX 1005</b>										
<b>LCS Dup (P0E0201-BSD1)</b>										
					Prepared: 05/02/20 Analyzed: 05/03/20					
C6-C12	1040	25.0	mg/kg wet	1000		104	75-125	1.34	20	
>C12-C28	1140	25.0	"	1000		114	75-125	5.95	20	
Surrogate: 1-Chlorooctane	99.0		"	100		99.0	70-130			
Surrogate: o-Terphenyl	37.7		"	50.0		75.4	70-130			
<b>Calibration Blank (P0E0201-CCB1)</b>										
					Prepared: 05/02/20 Analyzed: 05/03/20					
C6-C12	9.17		mg/kg wet							
>C12-C28	6.69		"							
Surrogate: 1-Chlorooctane	85.6		"	100		85.6	70-130			
Surrogate: o-Terphenyl	44.2		"	50.0		88.4	70-130			
<b>Calibration Blank (P0E0201-CCB2)</b>										
					Prepared: 05/02/20 Analyzed: 05/03/20					
C6-C12	8.48		mg/kg wet							
>C12-C28	8.36		"							
Surrogate: 1-Chlorooctane	96.2		"	100		96.2	70-130			
Surrogate: o-Terphenyl	50.1		"	50.0		100	70-130			
<b>Calibration Check (P0E0201-CCV1)</b>										
					Prepared: 05/02/20 Analyzed: 05/03/20					
C6-C12	561	25.0	mg/kg wet	500		112	85-115			
>C12-C28	564	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	93.9		"	100		93.9	70-130			
Surrogate: o-Terphenyl	41.0		"	50.0		81.9	70-130			
<b>Calibration Check (P0E0201-CCV2)</b>										
					Prepared: 05/02/20 Analyzed: 05/03/20					
C6-C12	544	25.0	mg/kg wet	500		109	85-115			
>C12-C28	556	25.0	"	500		111	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	47.5		"	50.0		94.9	70-130			

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**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
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**Batch P0E0201 - TX 1005****Calibration Check (P0E0201-CCV3)**

Prepared: 05/02/20 Analyzed: 05/04/20

C6-C12	543	25.0	mg/kg wet	500		109	85-115			
>C12-C28	552	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	47.2		"	50.0		94.4	70-130			

**Duplicate (P0E0201-DUP1)**

Source: 0E01005-19

Prepared: 05/02/20 Analyzed: 05/04/20

C6-C12	14.8	32.1	mg/kg dry		16.3			9.58	20	
>C12-C28	13.2	32.1	"		ND				20	
Surrogate: 1-Chlorooctane	127		"	128		99.0	70-130			
Surrogate: o-Terphenyl	70.8		"	64.1		110	70-130			

**Batch P0E0202 - TX 1005****Blank (P0E0202-BLK1)**

Prepared &amp; Analyzed: 05/02/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	96.6		"	100		96.6	70-130			
Surrogate: o-Terphenyl	49.2		"	50.0		98.4	70-130			

**LCS (P0E0202-BS1)**

Prepared &amp; Analyzed: 05/02/20

C6-C12	1120	25.0	mg/kg wet	1000		112	75-125			
>C12-C28	1180	25.0	"	1000		118	75-125			
Surrogate: 1-Chlorooctane	103		"	100		103	70-130			
Surrogate: o-Terphenyl	44.1		"	50.0		88.3	70-130			

**LCS Dup (P0E0202-BSD1)**

Prepared &amp; Analyzed: 05/02/20

C6-C12	1080	25.0	mg/kg wet	1000		108	75-125	3.88	20	
>C12-C28	1130	25.0	"	1000		113	75-125	4.51	20	
Surrogate: 1-Chlorooctane	104		"	100		104	70-130			
Surrogate: o-Terphenyl	42.5		"	50.0		85.1	70-130			

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Project Manager: Matt Green

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**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 P0E0202 - TX 1005</b>										
<b>Calibration Blank (P0E0202-CCB1)</b>										
Prepared & Analyzed: 05/02/20										
C6-C12	15.0		mg/kg wet							
>C12-C28	4.50		"							
Surrogate: 1-Chlorooctane	99.7		"	100		99.7	70-130			
Surrogate: o-Terphenyl	50.7		"	50.0		101	70-130			
<b>Calibration Blank (P0E0202-CCB2)</b>										
Prepared: 05/02/20 Analyzed: 05/03/20										
C6-C12	14.8		mg/kg wet							
>C12-C28	13.9		"							
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	53.8		"	50.0		108	70-130			
<b>Calibration Check (P0E0202-CCV1)</b>										
Prepared & Analyzed: 05/02/20										
C6-C12	557	25.0	mg/kg wet	500		111	85-115			
>C12-C28	551	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	50.0		"	50.0		100	70-130			
<b>Calibration Check (P0E0202-CCV2)</b>										
Prepared: 05/02/20 Analyzed: 05/03/20										
C6-C12	544	25.0	mg/kg wet	500		109	85-115			
>C12-C28	545	25.0	"	500		109	85-115			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	53.4		"	50.0		107	70-130			
<b>Duplicate (P0E0202-DUP1)</b>										
Source: 0E01010-10 Prepared: 05/02/20 Analyzed: 05/03/20										
C6-C12	130	25.5	mg/kg dry		128			1.41	20	
>C12-C28	1130	25.5	"		1100			2.83	20	
Surrogate: 1-Chlorooctane	125		"	102		123	70-130			
Surrogate: o-Terphenyl	65.9		"	51.0		129	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**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.
- 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: 9/1/2020

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.

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



## Revised Analytical Report

**Prepared for:**

Matt Green

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

13000 West County Road 100

Odessa, TX 79765

Project: Merchant Livestock 24 SC 2H

Project Number: CDEVID\_11162019

Location: Lea County, NM

Lab Order Number: 0E12017



**Current Certification**

Report Date: 09/01/20

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

Project: Merchant Livestock 24 SC 2H  
Project Number: CDEVID\_11162019  
Project Manager: Matt Green

Fax: (432) 563-2213

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-8 @ 2'	0E12017-01	Soil	05/06/20 08:20	05-12-2020 15:28
NSW-8 @ 1'	0E12017-02	Soil	05/06/20 08:30	05-12-2020 15:28
WSW-8 @ 1'	0E12017-03	Soil	05/06/20 08:50	05-12-2020 15:28
ESW-8 @ 1'	0E12017-04	Soil	05/06/20 09:10	05-12-2020 15:28
SSW-8 @ 1'	0E12017-05	Soil	05/06/20 09:20	05-12-2020 15:28

On 08/31/20 PBELAB was advised by the client to change the Project name from Merchant Livestock 25 SC 2H to Merchant Livestock 24 SC 24. This revised report reflects that change.

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

Project: Merchant Livestock 24 SC 2H  
Project Number: CDEVID\_11162019  
Project Manager: Matt Green

Fax: (432) 563-2213

**BH-8 @ 2'**  
**0E12017-01 (Soil)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

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

**BTEX by 8021B**

Benzene	ND	0.00103	mg/kg dry	1	P0E1601	05/16/20 18:09	05/16/20 23:19	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0E1601	05/16/20 18:09	05/16/20 23:19	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0E1601	05/16/20 18:09	05/16/20 23:19	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0E1601	05/16/20 18:09	05/16/20 23:19	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0E1601	05/16/20 18:09	05/16/20 23:19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.9 %		75-125	P0E1601	05/16/20 18:09	05/16/20 23:19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.6 %		75-125	P0E1601	05/16/20 18:09	05/16/20 23:19	EPA 8021B	

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

Chloride	140	1.03	mg/kg dry	1	P0E1308	05/13/20 12:04	05/13/20 19:26	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0E1303	05/13/20 09:25	05/13/20 09:28	ASTM D2216	

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

C6-C12	ND	25.8	mg/kg dry	1	P0E1306	05/13/20 11:16	05/14/20 01:30	TPH 8015M	
>C12-C28	86.0	25.8	mg/kg dry	1	P0E1306	05/13/20 11:16	05/14/20 01:30	TPH 8015M	
>C28-C35	36.8	25.8	mg/kg dry	1	P0E1306	05/13/20 11:16	05/14/20 01:30	TPH 8015M	
Surrogate: 1-Chlorooctane		97.4 %		70-130	P0E1306	05/13/20 11:16	05/14/20 01:30	TPH 8015M	
Surrogate: o-Terphenyl		109 %		70-130	P0E1306	05/13/20 11:16	05/14/20 01:30	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>123</b>	25.8	mg/kg dry	1	[CALC]	05/13/20 11:16	05/14/20 01:30	calc	

Permian Basin Environmental Lab, L.P.

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Page 3 of 17

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

Project: Merchant Livestock 24 SC 2H  
Project Number: CDEVID\_11162019  
Project Manager: Matt Green

Fax: (432) 563-2213

**NSW-8 @ 1'**  
**0E12017-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00105	mg/kg dry	1	P0E1601	05/16/20 18:09	05/16/20 23:39	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0E1601	05/16/20 18:09	05/16/20 23:39	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0E1601	05/16/20 18:09	05/16/20 23:39	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00392</b>	0.00211	mg/kg dry	1	P0E1601	05/16/20 18:09	05/16/20 23:39	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00112</b>	0.00105	mg/kg dry	1	P0E1601	05/16/20 18:09	05/16/20 23:39	EPA 8021B	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.6 %	75-125		P0E1601	05/16/20 18:09	05/16/20 23:39	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		94.5 %	75-125		P0E1601	05/16/20 18:09	05/16/20 23:39	EPA 8021B	

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

<b>Chloride</b>	<b>249</b>	1.05	mg/kg dry	1	P0E1308	05/13/20 12:04	05/13/20 19:42	EPA 300.0	
<b>% Moisture</b>	<b>5.0</b>	0.1	%	1	P0E1303	05/13/20 09:25	05/13/20 09:28	ASTM D2216	

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

C6-C12	ND	26.3	mg/kg dry	1	P0E1306	05/13/20 11:16	05/14/20 01:52	TPH 8015M	
<b>&gt;C12-C28</b>	<b>31.3</b>	26.3	mg/kg dry	1	P0E1306	05/13/20 11:16	05/14/20 01:52	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0E1306	05/13/20 11:16	05/14/20 01:52	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		94.3 %	70-130		P0E1306	05/13/20 11:16	05/14/20 01:52	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		110 %	70-130		P0E1306	05/13/20 11:16	05/14/20 01:52	TPH 8015M	
<b>Total Petroleum Hydrocarbon C6-C35</b>	<b>31.3</b>	26.3	mg/kg dry	1	[CALC]	05/13/20 11:16	05/14/20 01:52	calc	

Permian Basin Environmental Lab, L.P.

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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: Merchant Livestock 24 SC 2H  
Project Number: CDEVID\_11162019  
Project Manager: Matt Green

Fax: (432) 563-2213

**WSW-8 @ 1'**  
**0E12017-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00104	mg/kg dry	1	P0E1601	05/16/20 18:09	05/17/20 00:00	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P0E1601	05/16/20 18:09	05/17/20 00:00	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P0E1601	05/16/20 18:09	05/17/20 00:00	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P0E1601	05/16/20 18:09	05/17/20 00:00	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P0E1601	05/16/20 18:09	05/17/20 00:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.6 %	75-125		P0E1601	05/16/20 18:09	05/17/20 00:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.8 %	75-125		P0E1601	05/16/20 18:09	05/17/20 00:00	EPA 8021B	

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

Chloride	26.9	1.04	mg/kg dry	1	P0E1308	05/13/20 12:04	05/13/20 19:58	EPA 300.0	
% Moisture	4.0	0.1	%	1	P0E1303	05/13/20 09:25	05/13/20 09:28	ASTM D2216	

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

C6-C12	ND	26.0	mg/kg dry	1	P0E1306	05/13/20 11:16	05/14/20 02:14	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P0E1306	05/13/20 11:16	05/14/20 02:14	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P0E1306	05/13/20 11:16	05/14/20 02:14	TPH 8015M	
Surrogate: 1-Chlorooctane		94.1 %	70-130		P0E1306	05/13/20 11:16	05/14/20 02:14	TPH 8015M	
Surrogate: o-Terphenyl		109 %	70-130		P0E1306	05/13/20 11:16	05/14/20 02:14	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	05/13/20 11:16	05/14/20 02:14	calc	

Permian Basin Environmental Lab, L.P.

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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: Merchant Livestock 24 SC 2H  
Project Number: CDEVID\_11162019  
Project Manager: Matt Green

Fax: (432) 563-2213

**ESW-8 @ 1'**  
**0E12017-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00106	mg/kg dry	1	P0E1601	05/16/20 18:09	05/17/20 00:20	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0E1601	05/16/20 18:09	05/17/20 00:20	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0E1601	05/16/20 18:09	05/17/20 00:20	EPA 8021B	
<b>Xylene (p/m)</b>	<b>0.00422</b>	0.00213	mg/kg dry	1	P0E1601	05/16/20 18:09	05/17/20 00:20	EPA 8021B	
<b>Xylene (o)</b>	<b>0.00127</b>	0.00106	mg/kg dry	1	P0E1601	05/16/20 18:09	05/17/20 00:20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.1 %	75-125		P0E1601	05/16/20 18:09	05/17/20 00:20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		94.2 %	75-125		P0E1601	05/16/20 18:09	05/17/20 00:20	EPA 8021B	

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

<b>Chloride</b>	<b>52.5</b>	1.06	mg/kg dry	1	P0E1308	05/13/20 12:04	05/13/20 20:14	EPA 300.0	
<b>% Moisture</b>	<b>6.0</b>	0.1	%	1	P0E1303	05/13/20 09:25	05/13/20 09:28	ASTM D2216	

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

C6-C12	ND	26.6	mg/kg dry	1	P0E1306	05/13/20 11:16	05/14/20 02:36	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0E1306	05/13/20 11:16	05/14/20 02:36	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0E1306	05/13/20 11:16	05/14/20 02:36	TPH 8015M	
Surrogate: 1-Chlorooctane		94.4 %	70-130		P0E1306	05/13/20 11:16	05/14/20 02:36	TPH 8015M	
Surrogate: o-Terphenyl		110 %	70-130		P0E1306	05/13/20 11:16	05/14/20 02:36	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/13/20 11:16	05/14/20 02:36	calc	

Permian Basin Environmental Lab, L.P.

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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: Merchant Livestock 24 SC 2H  
Project Number: CDEVID\_11162019  
Project Manager: Matt Green

Fax: (432) 563-2213

**SSW-8 @ 1'**  
**0E12017-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00106	mg/kg dry	1	P0E1601	05/16/20 18:09	05/17/20 01:21	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P0E1601	05/16/20 18:09	05/17/20 01:21	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P0E1601	05/16/20 18:09	05/17/20 01:21	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P0E1601	05/16/20 18:09	05/17/20 01:21	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P0E1601	05/16/20 18:09	05/17/20 01:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.2 %	75-125		P0E1601	05/16/20 18:09	05/17/20 01:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.2 %	75-125		P0E1601	05/16/20 18:09	05/17/20 01:21	EPA 8021B	

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

Chloride	113	1.06	mg/kg dry	1	P0E1308	05/13/20 12:04	05/13/20 20:30	EPA 300.0	
% Moisture	6.0	0.1	%	1	P0E1303	05/13/20 09:25	05/13/20 09:28	ASTM D2216	

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

C6-C12	ND	26.6	mg/kg dry	1	P0E1306	05/13/20 11:16	05/14/20 02:58	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P0E1306	05/13/20 11:16	05/14/20 02:58	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P0E1306	05/13/20 11:16	05/14/20 02:58	TPH 8015M	
Surrogate: 1-Chlorooctane		94.2 %	70-130		P0E1306	05/13/20 11:16	05/14/20 02:58	TPH 8015M	
Surrogate: o-Terphenyl		108 %	70-130		P0E1306	05/13/20 11:16	05/14/20 02:58	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	05/13/20 11:16	05/14/20 02:58	calc	

Permian Basin Environmental Lab, L.P.

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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: Merchant Livestock 24 SC 2H  
Project Number: CDEVID\_11162019  
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
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**Batch P0E1601 - General Preparation (GC)****Blank (P0E1601-BLK1)**

Prepared &amp; Analyzed: 05/16/20

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	0.110		"	0.120		91.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		95.2	75-125			

**LCS (P0E1601-BS1)**

Prepared &amp; Analyzed: 05/16/20

Benzene	0.0976	0.00100	mg/kg wet	0.100		97.6	70-130			
Toluene	0.0970	0.00100	"	0.100		97.0	70-130			
Ethylbenzene	0.105	0.00100	"	0.100		105	70-130			
Xylene (p/m)	0.209	0.00200	"	0.200		105	70-130			
Xylene (o)	0.105	0.00100	"	0.100		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.1	75-125			

**LCS Dup (P0E1601-BSD1)**

Prepared &amp; Analyzed: 05/16/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130	6.52	20	
Toluene	0.104	0.00100	"	0.100		104	70-130	6.93	20	
Ethylbenzene	0.105	0.00100	"	0.100		105	70-130	0.582	20	
Xylene (p/m)	0.222	0.00200	"	0.200		111	70-130	6.06	20	
Xylene (o)	0.114	0.00100	"	0.100		114	70-130	7.88	20	
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.4	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.8	75-125			

**Calibration Blank (P0E1601-CCB1)**

Prepared &amp; Analyzed: 05/16/20

Benzene	0.00		mg/kg wet							
Toluene	0.770		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.590		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		94.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.4	75-125			

Permian Basin Environmental Lab, L.P.

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

Page 8 of 17

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

Project: Merchant Livestock 24 SC 2H  
Project Number: CDEVID\_11162019  
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
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**Batch P0E1601 - General Preparation (GC)****Calibration Blank (P0E1601-CCB2)**

Prepared: 05/16/20 Analyzed: 05/17/20

Benzene	0.00		mg/kg wet							
Toluene	0.770		"							
Ethylbenzene	0.370		"							
Xylene (p/m)	0.620		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.6	75-125			

**Calibration Blank (P0E1601-CCB3)**

Prepared: 05/16/20 Analyzed: 05/17/20

Benzene	0.00		mg/kg wet							
Toluene	0.930		"							
Ethylbenzene	0.460		"							
Xylene (p/m)	0.840		"							
Xylene (o)	0.330		"							
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.7	75-125			

**Calibration Check (P0E1601-CCV1)**

Prepared &amp; Analyzed: 05/16/20

Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.107	0.00100	"	0.100		107	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.222	0.00200	"	0.200		111	80-120			
Xylene (o)	0.115	0.00100	"	0.100		115	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.3	75-125			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.3	75-125			

**Calibration Check (P0E1601-CCV2)**

Prepared: 05/16/20 Analyzed: 05/17/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.206	0.00200	"	0.200		103	80-120			
Xylene (o)	0.108	0.00100	"	0.100		108	80-120			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		94.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.2	75-125			

Permian Basin Environmental Lab, L.P.

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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: Merchant Livestock 24 SC 2H  
Project Number: CDEVID\_11162019  
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
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**Batch P0E1601 - General Preparation (GC)****Calibration Check (P0E1601-CCV3)**

Prepared: 05/16/20 Analyzed: 05/17/20

Benzene	0.102	0.00100	mg/kg wet	0.100		102	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.206	0.00200	"	0.200		103	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.6	75-125			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.2	75-125			

**Matrix Spike (P0E1601-MS1)**

Source: 0E12015-34

Prepared: 05/16/20 Analyzed: 05/17/20

Benzene	0.0824	0.00108	mg/kg dry	0.108	ND	76.6	80-120			QM-07
Toluene	0.0728	0.00108	"	0.108	ND	67.7	80-120			QM-07
Ethylbenzene	0.0756	0.00108	"	0.108	ND	70.3	80-120			QM-07
Xylene (p/m)	0.121	0.00215	"	0.215	ND	56.0	80-120			QM-07
Xylene (o)	0.0536	0.00108	"	0.108	ND	49.8	80-120			QM-07
Surrogate: 1,4-Difluorobenzene	0.126		"	0.129		98.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.129		99.3	75-125			

**Matrix Spike Dup (P0E1601-MSD1)**

Source: 0E12015-34

Prepared: 05/16/20 Analyzed: 05/17/20

Benzene	0.0829	0.00108	mg/kg dry	0.108	ND	77.1	80-120	0.572	20	QM-07
Toluene	0.0748	0.00108	"	0.108	ND	69.6	80-120	2.72	20	QM-07
Ethylbenzene	0.0771	0.00108	"	0.108	ND	71.7	80-120	1.90	20	QM-07
Xylene (p/m)	0.124	0.00215	"	0.215	ND	57.6	80-120	2.77	20	QM-07
Xylene (o)	0.0585	0.00108	"	0.108	ND	54.4	80-120	8.77	20	QM-07
Surrogate: 1,4-Difluorobenzene	0.126		"	0.129		98.0	75-125			
Surrogate: 4-Bromofluorobenzene	0.125		"	0.129		97.0	75-125			

Permian Basin Environmental Lab, L.P.

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 13000 West County Road 100  
 Odessa TX, 79765

Project: Merchant Livestock 24 SC 2H  
 Project Number: CDEVID\_11162019  
 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
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**Batch P0E1303 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P0E1303-BLK1)** Prepared & Analyzed: 05/13/20

% Moisture	ND	0.1	%							
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**Duplicate (P0E1303-DUP1)** Source: 0E12002-18 Prepared & Analyzed: 05/13/20

% Moisture	2.0	0.1	%		2.0			0.00	20	
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**Duplicate (P0E1303-DUP2)** Source: 0E12018-08 Prepared & Analyzed: 05/13/20

% Moisture	3.0	0.1	%		3.0			0.00	20	
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**Duplicate (P0E1303-DUP3)** Source: 0E12018-10 Prepared & Analyzed: 05/13/20

% Moisture	3.0	0.1	%		3.0			0.00	20	
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**Batch P0E1308 - \*\*\* DEFAULT PREP \*\*\***

**Blank (P0E1308-BLK1)** Prepared & Analyzed: 05/13/20

Chloride	ND	0.100	mg/kg wet							
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**LCS (P0E1308-BS1)** Prepared & Analyzed: 05/13/20

Chloride	401	1.00	mg/kg wet	400		100	80-120			
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**LCS Dup (P0E1308-BSD1)** Prepared & Analyzed: 05/13/20

Chloride	402	1.00	mg/kg wet	400		100	80-120	0.214	20	
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**Calibration Blank (P0E1308-CCB1)** Prepared & Analyzed: 05/13/20

Chloride	0.00		mg/kg wet							
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**Calibration Blank (P0E1308-CCB2)** Prepared & Analyzed: 05/13/20

Chloride	0.00		mg/kg wet							
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Permian Basin Environmental Lab, L.P.

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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: Merchant Livestock 24 SC 2H  
 Project Number: CDEVID\_11162019  
 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 P0E1308 - *** DEFAULT PREP ***</b>										
<b>Calibration Check (P0E1308-CCV1)</b>										
Chloride	20.1		mg/kg	20.0		101	0-200			Prepared & Analyzed: 05/13/20
<b>Calibration Check (P0E1308-CCV2)</b>										
Chloride	20.2		mg/kg	20.0		101	0-200			Prepared & Analyzed: 05/13/20
<b>Calibration Check (P0E1308-CCV3)</b>										
Chloride	20.6		mg/kg	20.0		103	0-200			Prepared & Analyzed: 05/13/20
<b>Matrix Spike (P0E1308-MS1)</b>										
Chloride	2370	5.21	mg/kg dry	521	1820	106	80-120			Source: 0E11004-16 Prepared & Analyzed: 05/13/20
<b>Matrix Spike (P0E1308-MS2)</b>										
Chloride	3210	10.3	mg/kg dry	1030	2080	109	80-120			Source: 0E12007-01 Prepared & Analyzed: 05/13/20
<b>Matrix Spike Dup (P0E1308-MSD1)</b>										
Chloride	2360	5.21	mg/kg dry	521	1820	104	80-120	0.408	20	Source: 0E11004-16 Prepared & Analyzed: 05/13/20
<b>Matrix Spike Dup (P0E1308-MSD2)</b>										
Chloride	3190	10.3	mg/kg dry	1030	2080	107	80-120	0.713	20	Source: 0E12007-01 Prepared & Analyzed: 05/13/20

Permian Basin Environmental Lab, L.P.

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Odessa TX, 79765

Project: Merchant Livestock 24 SC 2H  
Project Number: CDEVID\_11162019  
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 P0E1306 - TX 1005</b>										
<b>Blank (P0E1306-BLK1)</b>										
Prepared & Analyzed: 05/13/20										
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	54.7		"	50.0		109	70-130			
<b>LCS (P0E1306-BS1)</b>										
Prepared & Analyzed: 05/13/20										
C6-C12	1150	25.0	mg/kg wet	1000		115	75-125			
>C12-C28	1240	25.0	"	1000		124	75-125			
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	57.2		"	50.0		114	70-130			
<b>LCS Dup (P0E1306-BSD1)</b>										
Prepared & Analyzed: 05/13/20										
C6-C12	1170	25.0	mg/kg wet	1000		117	75-125	2.04	20	
>C12-C28	1160	25.0	"	1000		116	75-125	6.94	20	
Surrogate: 1-Chlorooctane	127		"	100		127	70-130			
Surrogate: o-Terphenyl	51.1		"	50.0		102	70-130			
<b>Calibration Blank (P0E1306-CCB1)</b>										
Prepared & Analyzed: 05/13/20										
C6-C12	7.29		mg/kg wet							
>C12-C28	6.90		"							
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	52.3		"	50.0		105	70-130			
<b>Calibration Blank (P0E1306-CCB2)</b>										
Prepared: 05/13/20 Analyzed: 05/14/20										
C6-C12	6.15		mg/kg wet							
>C12-C28	12.3		"							
Surrogate: 1-Chlorooctane	94.0		"	100		94.0	70-130			
Surrogate: o-Terphenyl	49.2		"	50.0		98.4	70-130			

Permian Basin Environmental Lab, L.P.

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13000 West County Road 100  
Odessa TX, 79765

Project: Merchant Livestock 24 SC 2H  
Project Number: CDEVID\_11162019  
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 P0E1306 - TX 1005</b>										
<b>Calibration Check (P0E1306-CCV1)</b>				Prepared & Analyzed: 05/13/20						
C6-C12	557	25.0	mg/kg wet	500		111	85-115			
>C12-C28	565	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	50.0		"	50.0		100	70-130			
<b>Calibration Check (P0E1306-CCV2)</b>				Prepared: 05/13/20 Analyzed: 05/14/20						
C6-C12	494	25.0	mg/kg wet	500		98.9	85-115			
>C12-C28	534	25.0	"	500		107	85-115			
Surrogate: 1-Chlorooctane	97.2		"	100		97.2	70-130			
Surrogate: o-Terphenyl	45.0		"	50.0		90.1	70-130			
<b>Calibration Check (P0E1306-CCV3)</b>				Prepared: 05/13/20 Analyzed: 05/14/20						
C6-C12	497	25.0	mg/kg wet	500		99.4	85-115			
>C12-C28	550	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	97.5		"	100		97.5	70-130			
Surrogate: o-Terphenyl	45.4		"	50.0		90.7	70-130			
<b>Matrix Spike (P0E1306-MS1)</b>				Source: 0E12018-01		Prepared: 05/13/20 Analyzed: 05/14/20				
C6-C12	1150	25.3	mg/kg dry	1010	ND	114	75-125			
>C12-C28	1250	25.3	"	1010	3580	NR	75-125			QM-05
Surrogate: 1-Chlorooctane	119		"	101		118	70-130			
Surrogate: o-Terphenyl	52.2		"	50.5		103	70-130			
<b>Matrix Spike Dup (P0E1306-MSD1)</b>				Source: 0E12018-01		Prepared: 05/13/20 Analyzed: 05/14/20				
C6-C12	1150	25.3	mg/kg dry	1010	ND	114	75-125	0.239	20	
>C12-C28	1230	25.3	"	1010	3580	NR	75-125	NR	20	QM-05
Surrogate: 1-Chlorooctane	119		"	101		118	70-130			
Surrogate: o-Terphenyl	51.2		"	50.5		101	70-130			

Permian Basin Environmental Lab, L.P.

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

Project: Merchant Livestock 24 SC 2H  
Project Number: CDEVID\_11162019  
Project Manager: Matt Green

Fax: (432) 563-2213

**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: 9/1/2020

Brent Barron, Laboratory Director/Technical Director

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

Permian Basin Environmental Lab, L.P.

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Permian Basin Environmental Lab, L.P.

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



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



## Revised Analytical Report

**Prepared for:**

Matt Green  
E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa, TX 79765

Project: Centennial Merchant Livestock 24 SC 2H

Project Number: 12174

Location: Lea County, NM

Lab Order Number: 0F26008



**Current Certification**

Report Date: 09/01/20

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-8 @ 3'	0F26008-01	Soil	06/23/20 16:00	06-26-2020 09:42

On 08/31/20 PBELAB was advised by the client to change the Project name from Merchant Livestock 25 SC 2H to Merchant Livestock 24 SC 24. This revised report reflects that change.

E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765	Project: Centennial Merchant Livestock 24 SC 2H Project Number: 12174 Project Manager: Matt Green	Fax: (432) 563-2213
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**BH-8 @ 3'**  
**0F26008-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

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

% Moisture	3.0	0.1	%	1	POF2701	06/27/20 10:22	06/29/20 09:44	ASTM D2216	
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**Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M**

C6-C12	ND	25.8	mg/kg dry	1	POF2607	06/26/20 13:24	06/27/20 12:41	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	POF2607	06/26/20 13:24	06/27/20 12:41	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	POF2607	06/26/20 13:24	06/27/20 12:41	TPH 8015M	
<i>Surrogate: 1-Chlorooctane</i>		94.7	%		POF2607	06/26/20 13:24	06/27/20 12:41	TPH 8015M	
<i>Surrogate: o-Terphenyl</i>		99.0	%		POF2607	06/26/20 13:24	06/27/20 12:41	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/26/20 13:24	06/27/20 12:41	calc	

Permian Basin Environmental Lab, L.P.

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 13000 West County Road 100  
 Odessa TX, 79765

Project: Centennial Merchant Livestock 24 SC 2H  
 Project Number: 12174  
 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 P0F2701 - *** DEFAULT PREP ***</b>										
<b>Blank (P0F2701-BLK1)</b>										
					Prepared: 06/27/20 Analyzed: 06/29/20					
% Moisture	ND	0.1	%							
<b>Duplicate (P0F2701-DUP1)</b>										
					Source: 0F26003-14 Prepared: 06/27/20 Analyzed: 06/29/20					
% Moisture	ND	0.1	%		ND				20	
<b>Duplicate (P0F2701-DUP2)</b>										
					Source: 0F26010-11 Prepared: 06/27/20 Analyzed: 06/29/20					
% Moisture	6.0	0.1	%		6.0			0.00	20	
<b>Duplicate (P0F2701-DUP3)</b>										
					Source: 0F26010-38 Prepared: 06/27/20 Analyzed: 06/29/20					
% Moisture	3.0	0.1	%		3.0			0.00	20	
<b>Duplicate (P0F2701-DUP4)</b>										
					Source: 0F26015-11 Prepared: 06/27/20 Analyzed: 06/29/20					
% Moisture	ND	0.1	%		ND				20	

Permian Basin Environmental Lab, L.P.

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Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
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
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**Batch P0F2607 - TX 1005****Blank (P0F2607-BLK1)**

Prepared: 06/26/20 Analyzed: 06/27/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	128		"	100		128	70-130			
Surrogate: o-Terphenyl	65.8		"	50.0		132	70-130			S-GC

**LCS (P0F2607-BS1)**

Prepared: 06/26/20 Analyzed: 06/27/20

C6-C12	1080	25.0	mg/kg wet	1000		108	75-125			
>C12-C28	1180	25.0	"	1000		118	75-125			
Surrogate: 1-Chlorooctane	127		"	100		127	70-130			
Surrogate: o-Terphenyl	63.1		"	50.0		126	70-130			

**LCS Dup (P0F2607-BSD1)**

Prepared: 06/26/20 Analyzed: 06/27/20

C6-C12	985	25.0	mg/kg wet	1000		98.5	75-125	9.01	20	
>C12-C28	1150	25.0	"	1000		115	75-125	3.16	20	
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	57.3		"	50.0		115	70-130			

**Calibration Check (P0F2607-CCV1)**

Prepared: 06/26/20 Analyzed: 06/27/20

C6-C12	495	25.0	mg/kg wet	500		98.9	85-115			
>C12-C28	552	25.0	"	500		110	85-115			
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	62.6		"	50.0		125	70-130			

**Calibration Check (P0F2607-CCV2)**

Prepared: 06/26/20 Analyzed: 06/27/20

C6-C12	499	25.0	mg/kg wet	500		99.9	85-115			
>C12-C28	563	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	122		"	100		122	70-130			
Surrogate: o-Terphenyl	58.6		"	50.0		117	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
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
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**Batch P0F2607 - TX 1005**

**Calibration Check (P0F2607-CCV3)**

Prepared: 06/26/20 Analyzed: 06/27/20

C6-C12	481	25.0	mg/kg wet	500		96.2	85-115			
>C12-C28	531	25.0	"	500		106	85-115			
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	58.8		"	50.0		118	70-130			

**Matrix Spike (P0F2607-MS1)**

Source: 0F26009-01

Prepared: 06/26/20 Analyzed: 06/27/20

C6-C12	1080	25.3	mg/kg dry	1010	60.0	101	75-125			
>C12-C28	1200	25.3	"	1010	870	32.6	75-125			QM-05
Surrogate: 1-Chlorooctane	125		"	101		124	70-130			
Surrogate: o-Terphenyl	62.3		"	50.5		123	70-130			

**Matrix Spike Dup (P0F2607-MSD1)**

Source: 0F26009-01

Prepared: 06/26/20 Analyzed: 06/27/20

C6-C12	1080	25.3	mg/kg dry	1010	60.0	101	75-125	0.106	20	
>C12-C28	1190	25.3	"	1010	870	31.6	75-125	3.13	20	QM-05
Surrogate: 1-Chlorooctane	124		"	101		123	70-130			
Surrogate: o-Terphenyl	61.7		"	50.5		122	70-130			

Permian Basin Environmental Lab, L.P.

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Page 6 of 8

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
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.
- 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: 9/1/2020

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.

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Permian Basin Environmental Lab, L.P.

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



## Revised Analytical Report

**Prepared for:**

Matt Green  
E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa, TX 79765

Project: Centennial Merchant Livestock 24 SC 2H

Project Number: 12174

Location: Lea County, NM

Lab Order Number: 0G30014



**Current Certification**

Report Date: 09/01/20

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottom Hole 1 @ 9.5'	0G30014-01	Soil	07/28/20 09:30	07-30-2020 15:34
Bottom Hole 2 @ 9.5'	0G30014-02	Soil	07/28/20 09:35	07-30-2020 15:34
West Sidewall 1 @ 6'	0G30014-03	Soil	07/28/20 09:40	07-30-2020 15:34
West Sidewall 2 @ 6'	0G30014-04	Soil	07/28/20 09:50	07-30-2020 15:34

On 08/31/20 PBELAB was advised by the client to change the Project name from Merchant Livestock 25 SC 2H to Merchant Livestock 24 SC 24. This revised report reflects that change.

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

Project: Centennial Merchant Livestock 24 SC 2H  
 Project Number: 12174  
 Project Manager: Matt Green

Fax: (432) 563-2213

**Bottom Hole 1 @ 9.5'**  
**0G30014-01 (Soil)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

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

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

<b>Chloride</b>	<b>21.2</b>	1.11	mg/kg dry	1	POH0704	08/07/20 11:14	08/08/20 01:19	EPA 300.0	
<b>% Moisture</b>	<b>10.0</b>	0.1	%	1	POH0402	08/04/20 09:46	08/04/20 09:52	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765	Project: Centennial Merchant Livestock 24 SC 2H Project Number: 12174 Project Manager: Matt Green	Fax: (432) 563-2213
-------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	---------------------

**Bottom Hole 2 @ 9.5'**  
**0G30014-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

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

<b>Chloride</b>	<b>380</b>	1.10	mg/kg dry	1	POH0704	08/07/20 11:14	08/08/20 02:06	EPA 300.0	
<b>% Moisture</b>	<b>9.0</b>	0.1	%	1	POH0402	08/04/20 09:46	08/04/20 09:52	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765	Project: Centennial Merchant Livestock 24 SC 2H Project Number: 12174 Project Manager: Matt Green	Fax: (432) 563-2213
-------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	---------------------

**West Sidewall 1 @ 6'**  
**0G30014-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

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

<b>Chloride</b>	<b>25.9</b>	5.49	mg/kg dry	5	POH0704	08/07/20 11:14	08/08/20 02:22	EPA 300.0	
<b>% Moisture</b>	<b>9.0</b>	0.1	%	1	POH0402	08/04/20 09:46	08/04/20 09:52	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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E Tech Environmental & Safety Solutions, Inc. 13000 West County Road 100 Odessa TX, 79765	Project: Centennial Merchant Livestock 24 SC 2H Project Number: 12174 Project Manager: Matt Green	Fax: (432) 563-2213
-------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------	---------------------

**West Sidewall 2 @ 6'**  
**0G30014-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

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

<b>Chloride</b>	<b>23.7</b>	1.06	mg/kg dry	1	POH0704	08/07/20 11:14	08/08/20 02:37	EPA 300.0	
<b>% Moisture</b>	<b>6.0</b>	0.1	%	1	POH0402	08/04/20 09:46	08/04/20 09:52	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
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 P0H0402 - *** DEFAULT PREP ***</b>										
<b>Blank (P0H0402-BLK1)</b> Prepared & Analyzed: 08/04/20										
% Moisture	ND	0.1	%							
<b>Blank (P0H0402-BLK2)</b> Prepared & Analyzed: 08/04/20										
% Moisture	ND	0.1	%							
<b>Blank (P0H0402-BLK3)</b> Prepared & Analyzed: 08/04/20										
% Moisture	ND	0.1	%							
<b>Duplicate (P0H0402-DUP1)</b> Source: 0G30014-01 Prepared & Analyzed: 08/04/20										
% Moisture	10.0	0.1	%		10.0			0.00	20	
<b>Duplicate (P0H0402-DUP2)</b> Source: 0G31001-06 Prepared & Analyzed: 08/04/20										
% Moisture	2.0	0.1	%		2.0			0.00	20	
<b>Duplicate (P0H0402-DUP3)</b> Source: 0G31007-02 Prepared & Analyzed: 08/04/20										
% Moisture	8.0	0.1	%		8.0			0.00	20	
<b>Duplicate (P0H0402-DUP4)</b> Source: 0G31008-05 Prepared & Analyzed: 08/04/20										
% Moisture	3.0	0.1	%		3.0			0.00	20	
<b>Duplicate (P0H0402-DUP5)</b> Source: 0H03007-03 Prepared & Analyzed: 08/04/20										
% Moisture	7.0	0.1	%		7.0			0.00	20	
<b>Duplicate (P0H0402-DUP6)</b> Source: 0H03007-13 Prepared & Analyzed: 08/04/20										
% Moisture	2.0	0.1	%		2.0			0.00	20	
<b>Duplicate (P0H0402-DUP7)</b> Source: 0H03011-03 Prepared & Analyzed: 08/04/20										
% Moisture	6.0	0.1	%		6.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
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 P0H0704 - *** DEFAULT PREP ***</b>										
<b>LCS (P0H0704-BS1)</b>				Prepared & Analyzed: 08/07/20						
Chloride	409	1.00	mg/kg wet	400		102	80-120			
<b>LCS Dup (P0H0704-BSD1)</b>				Prepared & Analyzed: 08/07/20						
Chloride	411	1.00	mg/kg wet	400		103	80-120	0.415	20	
<b>Calibration Check (P0H0704-CCV1)</b>				Prepared & Analyzed: 08/07/20						
Chloride	20.1		mg/kg	20.0		101	0-200			
<b>Calibration Check (P0H0704-CCV2)</b>				Prepared: 08/07/20 Analyzed: 08/08/20						
Chloride	19.9		mg/kg	20.0		99.7	0-200			
<b>Calibration Check (P0H0704-CCV3)</b>				Prepared: 08/07/20 Analyzed: 08/08/20						
Chloride	20.4		mg/kg	20.0		102	0-200			
<b>Matrix Spike (P0H0704-MS1)</b>				Source: 0G30010-05			Prepared: 08/07/20 Analyzed: 08/08/20			
Chloride	1100	1.03	mg/kg dry	515	785	61.7	80-120			QM-05
<b>Matrix Spike (P0H0704-MS2)</b>				Source: 0G30014-01			Prepared: 08/07/20 Analyzed: 08/08/20			
Chloride	548	1.11	mg/kg dry	556	21.2	94.8	80-120			
<b>Matrix Spike Dup (P0H0704-MSD1)</b>				Source: 0G30010-05			Prepared: 08/07/20 Analyzed: 08/08/20			
Chloride	1190	1.03	mg/kg dry	515	785	79.2	80-120	7.85	20	QM-05
<b>Matrix Spike Dup (P0H0704-MSD2)</b>				Source: 0G30014-01			Prepared: 08/07/20 Analyzed: 08/08/20			
Chloride	542	1.11	mg/kg dry	556	21.2	93.7	80-120	1.12	20	

Permian Basin Environmental Lab, L.P.

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

Project: Centennial Merchant Livestock 24 SC 2H  
Project Number: 12174  
Project Manager: Matt Green

Fax: (432) 563-2213

**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: 9/1/2020

Brent Barron, Laboratory Director/Technical Director

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**SUMMARY REPORT**

1400 Rankin Hwy  
Midland, Tx 79701  
Phone: 432-686-7235

<b>E Tech Environmental &amp; Safety Solutions, Inc.</b>		Project: Merchant Livestock 24 SC 2H
13000 West County Road 100		Project Number: CDEVID_11162019
Odessa TX, 79765		Project Manager: Matt Green
<b>SAMPLED:</b> 09/23/20		<b>REPORTED:</b> 10/07/20 11:18
<b>RECEIVED:</b> 09-28-202		

LAB #		0I28008-01	0I28008-02	0I28008-03	0I28008-04	-	-
MATRIX	Minimum	Soil	Soil	Soil	Soil	-	-
SAMPLE ID	Reporting Limit	Bottom Hole 9 @ 13'	North Sidewall 9 @ 8'	East Sidewall 9 @ 8'	West Sidewall 9 @ 8'	-	-

**BTEX by 8021B (Soil)**

Benzene	0.00100 mg/kg dry	<0.00108	<0.00109	<0.00109	<0.00108	-	-
Toluene	0.00100 mg/kg dry	<0.00108	<0.00109	<0.00109	<0.00108	-	-
Ethylbenzene	0.00100 mg/kg dry	<0.00108	<0.00109	<0.00109	<0.00108	-	-
Xylene (p/m)	0.00200 mg/kg dry	<0.00215	<0.00217	<0.00217	<0.00215	-	-
Xylene (o)	0.00100 mg/kg dry	<0.00108	<0.00109	<0.00109	<0.00108	-	-
1,4-Difluorobenzene	125 [surr]	103%	101%	99.4%	102%	-	-
4-Bromofluorobenzene	125 [surr]	120%	123%	128% [4]	123%	-	-

**General Chemistry Parameters by EPA / Standard Methods (Soil)**

Chloride	1.00 mg/kg dry	462	213	29.0	246	-	-
% Moisture	0.1 %	7.0	8.0	8.0	7.0	-	-

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

C6-C12	25.0 mg/kg dry	<26.9	<27.2	<27.2	<26.9	-	-
>C12-C28	25.0 mg/kg dry	<26.9	<27.2	<27.2	<26.9	-	-
>C28-C35	25.0 mg/kg dry	<26.9	<27.2	<27.2	<26.9	-	-
1-Chlorooctane	130 [surr]	106%	115%	106%	108%	-	-
o-Terphenyl	130 [surr]	114%	120%	114%	116%	-	-
Total Petroleum Hydrocarbon C6-C35	26.9 mg/kg dry	<26.9	-	-	<26.9	-	-
Total Petroleum Hydrocarbon C6-C35	27.2 mg/kg dry	-	<27.2	<27.2	-	-	-

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

**Sara Gotcher For Brent Barron**  
Technical Director

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**SUMMARY REPORT**

1400 Rankin Hwy  
Midland, Tx 79701  
Phone: 432-686-7235

<b>E Tech Environmental &amp; Safety Solutions, Inc.</b>	Project: Merchant Livestock 24 SC 2H
13000 West County Road 100	Project Number: CDEVID_11162019
Odessa TX, 79765	Project Manager: Matt Green
<b>SAMPLED:</b> 09/23/20	<b>REPORTED:</b> 10/07/20 11:18
<b>RECEIVED:</b> 09-28-202	

**Special Notes**

- 1 = Samples received in Bulk soil containers
- 2 = The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 3 = Received on Ice
- 4 = Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

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

**Sara Gotcher For Brent Barron**  
Technical Director

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



# Analytical Report

**Prepared for:**

Matt Green  
E Tech Environmental & Safety Solutions, Inc.  
13000 West County Road 100  
Odessa, TX 79765

Project: Merchant Livestock 24 SC 2H  
Project Number: CDEVID\_11162019  
Location: Lea County, NM  
Lab Order Number: 0I28008



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

Report Date: 10/07/20

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

Project: Merchant Livestock 24 SC 2H  
Project Number: CDEVID\_11162019  
Project Manager: Matt Green

Fax: (432) 563-2213

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottom Hole 9 @ 13'	0128008-01	Soil	09/23/20 12:05	09-28-2020 15:28
North Sidewall 9 @ 8'	0128008-02	Soil	09/23/20 12:10	09-28-2020 15:28
East Sidewall 9 @ 8'	0128008-03	Soil	09/23/20 12:04	09-28-2020 15:28
West Sidewall 9 @ 8'	0128008-04	Soil	09/23/20 12:15	09-28-2020 15:28

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

Project: Merchant Livestock 24 SC 2H  
Project Number: CDEVID\_11162019  
Project Manager: Matt Green

Fax: (432) 563-2213

**Bottom Hole 9 @ 13'**

**0128008-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00108	mg/kg dry	1	P0I3009	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P0I3009	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P0I3009	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P0I3009	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P0I3009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P0I3009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	75-125		P0I3009	09/30/20	10/01/20	EPA 8021B	

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

Chloride	462	5.38	mg/kg dry	5	P0J0605	10/06/20	10/06/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0I2901	09/29/20	09/29/20	ASTM D2216	

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

C6-C12	ND	26.9	mg/kg dry	1	P0I2902	09/29/20	09/29/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0I2902	09/29/20	09/29/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0I2902	09/29/20	09/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P0I2902	09/29/20	09/29/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P0I2902	09/29/20	09/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/29/20	09/29/20	calc	

Permian Basin Environmental Lab, L.P.

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

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

Project: Merchant Livestock 24 SC 2H  
Project Number: CDEVID\_11162019  
Project Manager: Matt Green

Fax: (432) 563-2213

**North Sidewall 9 @ 8'**  
**0128008-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00109	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		123 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	

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

Chloride	213	1.09	mg/kg dry	1	P010605	10/06/20	10/06/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P012901	09/29/20	09/29/20	ASTM D2216	

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

C6-C12	ND	27.2	mg/kg dry	1	P012902	09/29/20	09/29/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P012902	09/29/20	09/29/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P012902	09/29/20	09/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		115 %	70-130		P012902	09/29/20	09/29/20	TPH 8015M	
Surrogate: o-Terphenyl		120 %	70-130		P012902	09/29/20	09/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	09/29/20	09/29/20	calc	

Permian Basin Environmental Lab, L.P.

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Project Number: CDEVID\_11162019  
Project Manager: Matt Green

Fax: (432) 563-2213

**East Sidewall 9 @ 8'**  
**0128008-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00109	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		128 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene		99.4 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	

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

Chloride	29.0	5.43	mg/kg dry	5	P010605	10/06/20	10/06/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P012901	09/29/20	09/29/20	ASTM D2216	

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

C6-C12	ND	27.2	mg/kg dry	1	P012902	09/29/20	09/29/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P012902	09/29/20	09/29/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P012902	09/29/20	09/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		106 %	70-130		P012902	09/29/20	09/29/20	TPH 8015M	
Surrogate: o-Terphenyl		114 %	70-130		P012902	09/29/20	09/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	09/29/20	09/29/20	calc	

Permian Basin Environmental Lab, L.P.

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Project Manager: Matt Green

Fax: (432) 563-2213

**West Sidewall 9 @ 8'**  
**0128008-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Permian Basin Environmental Lab, L.P.**

**BTEX by 8021B**

Benzene	ND	0.00108	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		123 %	75-125		P013009	09/30/20	10/01/20	EPA 8021B	

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

Chloride	246	1.08	mg/kg dry	1	P010605	10/06/20	10/06/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P012901	09/29/20	09/29/20	ASTM D2216	

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

C6-C12	ND	26.9	mg/kg dry	1	P012902	09/29/20	09/29/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P012902	09/29/20	09/29/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P012902	09/29/20	09/29/20	TPH 8015M	
Surrogate: 1-Chlorooctane		108 %	70-130		P012902	09/29/20	09/29/20	TPH 8015M	
Surrogate: o-Terphenyl		116 %	70-130		P012902	09/29/20	09/29/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	09/29/20	09/29/20	calc	

Permian Basin Environmental Lab, L.P.

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Odessa TX, 79765

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Project Number: CDEVID\_11162019  
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
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**Batch P013009 - General Preparation (GC)****Blank (P013009-BLK1)**

Prepared: 09/30/20 Analyzed: 10/01/20

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	0.121		"	0.120		101	75-125			
Surrogate: 4-Bromofluorobenzene	0.139		"	0.120		116	75-125			

**LCS (P013009-BS1)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0912	0.00100	mg/kg wet	0.100		91.2	70-130			
Toluene	0.0886	0.00100	"	0.100		88.6	70-130			
Ethylbenzene	0.0970	0.00100	"	0.100		97.0	70-130			
Xylene (p/m)	0.193	0.00200	"	0.200		96.7	70-130			
Xylene (o)	0.111	0.00100	"	0.100		111	70-130			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.159		"	0.120		132	75-125			S-GC

**LCS Dup (P013009-BSD1)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0828	0.00100	mg/kg wet	0.100		82.8	70-130	9.66	20	
Toluene	0.0833	0.00100	"	0.100		83.3	70-130	6.21	20	
Ethylbenzene	0.0925	0.00100	"	0.100		92.5	70-130	4.78	20	
Xylene (p/m)	0.171	0.00200	"	0.200		85.7	70-130	12.0	20	
Xylene (o)	0.100	0.00100	"	0.100		100	70-130	10.0	20	
Surrogate: 4-Bromofluorobenzene	0.145		"	0.120		121	75-125			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	75-125			

**Calibration Check (P013009-CCV1)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0900	0.00100	mg/kg wet	0.100		90.0	80-120			
Toluene	0.0883	0.00100	"	0.100		88.3	80-120			
Ethylbenzene	0.0994	0.00100	"	0.100		99.4	80-120			
Xylene (p/m)	0.175	0.00200	"	0.200		87.3	80-120			
Xylene (o)	0.101	0.00100	"	0.100		101	80-120			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.7	75-125			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.7	75-125			

Permian Basin Environmental Lab, L.P.

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Odessa TX, 79765

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Project Number: CDEVID\_11162019  
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
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**Batch P013009 - General Preparation (GC)****Calibration Check (P013009-CCV2)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0876	0.00100	mg/kg wet	0.100		87.6	80-120			
Toluene	0.0861	0.00100	"	0.100		86.1	80-120			
Ethylbenzene	0.0966	0.00100	"	0.100		96.6	80-120			
Xylene (p/m)	0.177	0.00200	"	0.200		88.4	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.8	75-125			
Surrogate: 4-Bromofluorobenzene	0.146		"	0.120		121	75-125			

**Calibration Check (P013009-CCV3)**

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0852	0.00100	mg/kg wet	0.100		85.2	80-120			
Toluene	0.0873	0.00100	"	0.100		87.3	80-120			
Ethylbenzene	0.0952	0.00100	"	0.100		95.2	80-120			
Xylene (p/m)	0.171	0.00200	"	0.200		85.4	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 4-Bromofluorobenzene	0.138		"	0.120		115	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			

**Matrix Spike (P013009-MS1)**

Source: 0123010-72

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0774	0.00100	mg/kg dry	0.100	ND	77.4	80-120			QM-07
Toluene	0.0763	0.00100	"	0.100	ND	76.3	80-120			QM-07
Ethylbenzene	0.0832	0.00100	"	0.100	ND	83.2	80-120			
Xylene (p/m)	0.132	0.00200	"	0.200	ND	66.2	80-120			QM-07
Xylene (o)	0.0729	0.00100	"	0.100	ND	72.9	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	0.146		"	0.120		122	75-125			
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		105	75-125			

**Matrix Spike Dup (P013009-MSD1)**

Source: 0123010-72

Prepared: 09/30/20 Analyzed: 10/01/20

Benzene	0.0715	0.00100	mg/kg dry	0.100	ND	71.5	80-120	7.94	20	QM-07
Toluene	0.0726	0.00100	"	0.100	ND	72.6	80-120	5.00	20	QM-07
Ethylbenzene	0.0781	0.00100	"	0.100	ND	78.1	80-120	6.30	20	QM-07
Xylene (p/m)	0.125	0.00200	"	0.200	ND	62.3	80-120	6.18	20	QM-07
Xylene (o)	0.0687	0.00100	"	0.100	ND	68.7	80-120	5.96	20	QM-07
Surrogate: 4-Bromofluorobenzene	0.137		"	0.120		115	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.6	75-125			

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 Project Number: CDEVID\_11162019  
 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
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**Batch P0I2901 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P0I2901-BLK1)</b>										
Prepared & Analyzed: 09/29/20										
% Moisture	ND	0.1	%							

**Batch P0J0605 - \*\*\* DEFAULT PREP \*\*\***

<b>Blank (P0J0605-BLK1)</b>										
Prepared & Analyzed: 10/06/20										
Chloride	ND	1.00	mg/kg wet							

<b>LCS (P0J0605-BS1)</b>										
Prepared & Analyzed: 10/06/20										
Chloride	405	1.00	mg/kg wet	400		101	80-120			

<b>LCS Dup (P0J0605-BSD1)</b>										
Prepared & Analyzed: 10/06/20										
Chloride	405	1.00	mg/kg wet	400		101	80-120	0.0123	20	

<b>Calibration Blank (P0J0605-CCB1)</b>										
Prepared & Analyzed: 10/06/20										
Chloride	0.00		mg/kg wet							

<b>Calibration Blank (P0J0605-CCB2)</b>										
Prepared & Analyzed: 10/06/20										
Chloride	0.00		mg/kg wet							

<b>Calibration Check (P0J0605-CCV1)</b>										
Prepared & Analyzed: 10/06/20										
Chloride	19.2		mg/kg	20.0		96.2	0-200			

<b>Calibration Check (P0J0605-CCV2)</b>										
Prepared & Analyzed: 10/06/20										
Chloride	19.3		mg/kg	20.0		96.7	0-200			

<b>Calibration Check (P0J0605-CCV3)</b>										
Prepared: 10/06/20 Analyzed: 10/07/20										
Chloride	19.4		mg/kg	20.0		97.0	0-200			

Permian Basin Environmental Lab, L.P.

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**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
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**Batch P0J0605 - \*\*\* DEFAULT PREP \*\*\***

<b>Matrix Spike (P0J0605-MS1)</b>		<b>Source: 0125014-82</b>			Prepared & Analyzed: 10/06/20					
Chloride	551	1.01	mg/kg dry	505	67.8	95.6	80-120			
<b>Matrix Spike (P0J0605-MS2)</b>		<b>Source: 0125020-09</b>			Prepared & Analyzed: 10/06/20					
Chloride	4980	12.2	mg/kg dry	1220	3690	106	80-120			
<b>Matrix Spike Dup (P0J0605-MSD1)</b>		<b>Source: 0125014-82</b>			Prepared & Analyzed: 10/06/20					
Chloride	556	1.01	mg/kg dry	505	67.8	96.7	80-120	0.980	20	
<b>Matrix Spike Dup (P0J0605-MSD2)</b>		<b>Source: 0125020-09</b>			Prepared & Analyzed: 10/06/20					
Chloride	4940	12.2	mg/kg dry	1220	3690	103	80-120	0.809	20	

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**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 P012902 - TX 1005</b>										
<b>Blank (P012902-BLK1)</b>										
Prepared & Analyzed: 09/29/20										
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	89.2		"	100		89.2	70-130			
Surrogate: o-Terphenyl	47.1		"	50.0		94.2	70-130			
<b>LCS (P012902-BS1)</b>										
Prepared & Analyzed: 09/29/20										
C6-C12	911	25.0	mg/kg wet	1000		91.1	75-125			
>C12-C28	1110	25.0	"	1000		111	75-125			
Surrogate: 1-Chlorooctane	117		"	100		117	70-130			
Surrogate: o-Terphenyl	52.6		"	50.0		105	70-130			
<b>LCS Dup (P012902-BSD1)</b>										
Prepared & Analyzed: 09/29/20										
C6-C12	902	25.0	mg/kg wet	1000		90.2	75-125	1.07	20	
>C12-C28	1100	25.0	"	1000		110	75-125	0.702	20	
Surrogate: 1-Chlorooctane	116		"	100		116	70-130			
Surrogate: o-Terphenyl	50.6		"	50.0		101	70-130			
<b>Calibration Check (P012902-CCV1)</b>										
Prepared & Analyzed: 09/29/20										
C6-C12	499	25.0	mg/kg wet	500		99.9	85-115			
>C12-C28	574	25.0	"	500		115	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	49.5		"	50.0		99.0	70-130			
<b>Calibration Check (P012902-CCV2)</b>										
Prepared & Analyzed: 09/29/20										
C6-C12	476	25.0	mg/kg wet	500		95.1	85-115			
>C12-C28	540	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	46.8		"	50.0		93.6	70-130			

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

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

Project: Merchant Livestock 24 SC 2H  
Project Number: CDEVID\_11162019  
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
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**Batch P012902 - TX 1005**

**Calibration Check (P012902-CCV3)**

Prepared: 09/29/20 Analyzed: 09/30/20

C6-C12	437	25.0	mg/kg wet	500		87.4	85-115			
>C12-C28	487	25.0	"	500		97.5	85-115			
Surrogate: 1-Chlorooctane	92.8		"	100		92.8	70-130			
Surrogate: o-Terphenyl	43.3		"	50.0		86.6	70-130			

**Matrix Spike (P012902-MS1)**

Source: 0128008-01

Prepared & Analyzed: 09/29/20

C6-C12	863	26.9	mg/kg dry	1080	15.3	78.8	75-125			
>C12-C28	1000	26.9	"	1080	26.4	90.9	75-125			
Surrogate: 1-Chlorooctane	110		"	108		102	70-130			
Surrogate: o-Terphenyl	47.9		"	53.8		89.2	70-130			

**Matrix Spike Dup (P012902-MSD1)**

Source: 0128008-01

Prepared & Analyzed: 09/29/20

C6-C12	908	26.9	mg/kg dry	1080	15.3	83.0	75-125	5.15	20	
>C12-C28	1050	26.9	"	1080	26.4	95.5	75-125	4.98	20	
Surrogate: 1-Chlorooctane	114		"	108		106	70-130			
Surrogate: o-Terphenyl	48.3		"	53.8		89.8	70-130			

Permian Basin Environmental Lab, L.P.

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**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.
- 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: 10/7/2020

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.

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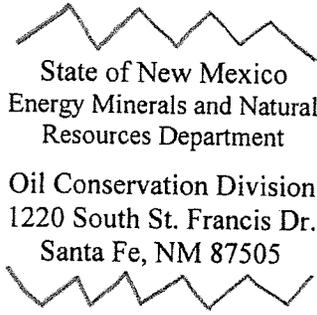
Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 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



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

Incident ID	
District RP	
Facility ID	
Application ID	

### Release Notification

#### Responsible Party

Responsible Party: Centennial Resource Production, Inc	OGRID: 372165
Contact Name: Zane Kurtz	Contact Telephone: 432-315-0113
Contact email: Zane.Kurtz@cdevinc.com	Incident # (assigned by OCD)
Contact mailing address: 500 W. Illinois Ave, Suite 500, Midland, Texas 79705	

#### Location of Release Source

Latitude 32.37005 32.37253 Longitude -103.42671  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name: Merchant Livestock 24 State Com 2H	Site Type: Oil Production
Date Release Discovered: 8-15-19	API# <del>30-025-41350</del> <u>30-025-413470000</u>

Unit Letter	Section	Township	Range	County
N	<u>25 24</u>	<u>23S 22S</u>	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 type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 80	Volume Recovered (bbls) 0
	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

During produced water transfer activities, a small split in the poly pipe developed. Produced water was released from the poly pipe and ran along the edge of the pad and to the south off the pad.

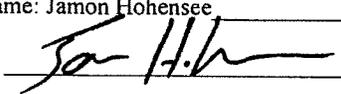
State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? >25bbbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? An email was sent to <a href="mailto:emnr_d_oed_district1spills@state.nm.us">emnr_d_oed_district1spills@state.nm.us</a> on 8-16-19	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why: Once the release was discovered, the transfer pump was off and any free-standing liquids had been absorbed into the ground.
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Jamon Hohensee</u> Title: <u>Sr. Environmental Analyst</u> Signature: <u></u> Date: <u>8/21/19</u> email: <u>Jamon.hohensee@cdevinc.com</u> Telephone: <u>432-315-0132</u>
<b><u>OCD Only</u></b> Received by: _____ Date: _____

Incident ID	
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.

Form C-141

Page 4

State of New Mexico  
Oil Conservation Division

Incident ID	
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	
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.

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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	
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: \_\_\_\_\_

Form C-141  
Page 6

State of New Mexico  
Oil Conservation Division

PRM1934553523  
NRM1934553443

Incident ID	NRM1934553443
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: Jamon Hohensee Title: Sr. Environmental Analyst  
 Signature: [Signature] Date: 12-22-20  
 email: jamon.hohensee@cdevinc.com Telephone: 432-241-4283

**OCD Only**

Received by: Robert Hamlet Date: 4/16/2021

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: 4/16/2021  
 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 12944

**CONDITIONS OF APPROVAL**

Operator:	CENTENNIAL RESOURCE PRODUCTION	1001 17th Street, Suite 1800	Denver, CO80202	OGRID:	372165	Action Number:	12944	Action Type:	C-141
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OCD Reviewer	Condition
rhamlet	We have received your closure report and final C-141 for Incident #NRM1934553443 MERCHANT LIVESTOCK 24 STATE COMM 2H, thank you. This closure is approved.