Form C-141
Page 3

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | nRM2033538690 |
| 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? | 120 (ft bgs) |
| Did this release impact groundwater or surface water? | ☐ Yes ☑ No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ☑ No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | ☐ Yes ☑ No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ☑ No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes ☑ No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ☑ No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ☑ No |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ☑ No |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ☑ No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☐ Yes ☑ No |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ☑ No |
| Did the release impact areas **not** on an exploration, development, production, or storage site? | ☑ Yes ☐ No |

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

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

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

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

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State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | nRM2033538690 |
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| 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: Lyanne Lara  Title: Environmental Specialist

Signature: Lyanne Lara  Date: 12/8/2020

email: lyanne.lara@energytransfer.com  Telephone: (432)425-5710

**OCD Only**

Received by: Cristina Eads  Date: 12/08/2020

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Page 6

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | nRM2033538690 |
| 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: Lyanne Lara Title: Environmental Specialist

Signature: Lyanne Lara Date: 12/8/2020

email: lyanne.lara@energytransfer.com Telephone: (432)425-5710

**OCD Only**

Received by: Cristina Eads Date: 12/08/2020

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: Cristina Eads Date: 02/19/2021

Printed Name: Cristina Eads Title: Environmental Specialist

# Remediation Summary and Soil Closure Request

**Sunoco Partners Marketing & Terminals, LP**
**Whitehorn Road**
Eddy County, New Mexico
Unit Letter D, Section 15, Township 26 South, Range 29 East
Latitude 32.04886 North, Longitude 103.98002 West
**NMOCD Reference No. nRM2033538690**

Prepared By:

**Etech Environmental & Safety Solutions, Inc.**
3100 Plains Highway
Lovington, New Mexico 88260

Ben J. Arguijo

Joel W. Lowry

# TABLE OF CONTENTS

# 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Sunoco Partners Marketing & Terminals, LP, has prepared this Remediation Summary and Soil Closure Request for the release site known as Whitehorn Road. Details of the release are summarized below:

## Location of Release Source

Latitude: 32.04886 Longitude: -103.98002

Provided GPS are in WGS84 format.

| | | | |
|---|---|---|---|
| Site Name: | Whitehorn Road | Site Type: | County/Lease Road (Truck Spill) |
| Date Release Discovered: | 11/3/2020 | API # (if applicable): | N/A |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| D | 15 | 26S | 29E | Eddy |

Surface Owner: [ ] State [X] Federal [ ] Tribal [ ] Private (Name _____)

## Nature and Volume of Release

| | | |
|---|---|---|
| [X] Crude Oil | Volume Released (bbls) 16 | Volume Recovered (bbls) 6 |
| [ ] Produced Water | Volume Released (bbls) | Volume Recovered (bbls) |
| | Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L? | [ ] Yes [ ] No [X] N/A |
| [ ] Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| [ ] Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| [ ] Other (describe) | Volume/Weight Released | Volume/Weight Recovered |

Cause of Release:
Sample valve underneath crude transport truck failed, resulting in a release on Whitehorn Road. Based on volumetric measurements of the tank taken both before and after the spill, approximately 16 bbls of crude oil was released.

## Initial Response

[X] The source of the release has been stopped.
[X] The impacted area has been secured to protect human health and the environment.
[X] Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
[X] All free liquids and recoverable materials have been removed and managed appropriately.

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

## 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

| | |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release? | 120 feet |
| Did the release impact groundwater or surface water? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ☒ No |
| Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ☒ No |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ☒ No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☐ Yes ☒ No |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ☒ No |
| Did the release impact areas not on an exploration, development, production or storage site? | ☒ Yes ☐ No |

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria and Reclamation Standards for the site are as follows:

| Probable Depth to Groundwater | Constituent | Method | Closure Criteria | Reclamation Standard* |
|---|---|---|---|---|
| 95 feet | Chloride | EPA 300.0 or SM4500 Cl B | 20,000 mg/kg | 600 mg/kg |
| | TPH (GRO + DRO + MRO) | EPA SW-846 Method 8015M Ext | 2,500 mg/kg | 100 mg/kg |
| | DRO + GRO | EPA SW-846 Method 8015M | 1,000 mg/kg | - |
| | BTEX | EPA SW-846 Methods 8021b or 8260b | 50 mg/kg | 50 mg/kg |
| | Benzene | EPA SW-846 Methods 8021b or 8260b | 10 mg/kg | 10 mg/kg |

* The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas.

## 4.0 REMEDIATION ACTIVITIES SUMMARY

On November 17, 2020, remediation activities commenced at the site. Olfactory/visual senses and/or a Photoionization Detector (PID) were utilized to determine the horizontal and vertical extent of soil impacts. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal.

Etech collected ten (10) excavation confirmation soil samples (FL-1 through FL-6, North, East, South, and West). The soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria and the NMOCD Reclamation Standard in each of the submitted soil samples. Laboratory analytical results also suggested the crude oil-only release commingled with an unrelated historical produced water release (or releases) of unknown date(s) and volume(s), based on elevated chloride concentrations in soil samples FL-4, FL-5, FL-6, East, South, and West.

On November 23, 2020, three (3) soil samples (BG-N, BG-S, and BG-W) were collected and submitted to the laboratory to determine the background concentrations of chloride in the area. Background soil samples BG-N and BG-S were collected outside the release margins, up-gradient and down-gradient, respectively, of the subject release. Background soil sample BG-W was collected outside of the release margins from within the bar-ditch on the west side of the caliche access road. Laboratory analytical results indicated background chloride concentrations ranged from 464 mg/kg in soil sample BG-N to 1,650 mg/kg in sample BG-W.

A "Site & Sample Location Map" is provided as Figure 3. A soil chemistry table is provided as Table 1. Field data and soil profile logs are provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the release site are provided in Appendix D.

The final dimensions of the excavated area were 185 feet in length, 3 to 4 feet in width, and 2 to 3 feet in depth. During the course of remediation activities, approximately 80 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

## 5.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was contoured and compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on lease roads will be reseeded with an agency-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site.

## 6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with applicable NMOCD regulations. Laboratory analytical results and field test results indicated the crude oil-only release was fully delineated horizontally and vertically. Impacted soil affected above the NMOCD Closure Criteria, NMOCD Reclamation Standards, and/or background concentrations was excavated and transported to an NMOCD-approved disposal facility.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Sunoco Partners Marketing & Terminals, LP, provide copies of this *Remediation Summary and Soil Closure Request* to the appropriate agencies and request closure be granted to the Whitehorn Road release site.

# 7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary and Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech 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 Sunoco Partners Marketing & Terminals, LP. Use of the information contained in this report is prohibited without the consent of Etech and/or Sunoco Partners Marketing & Terminals, LP.

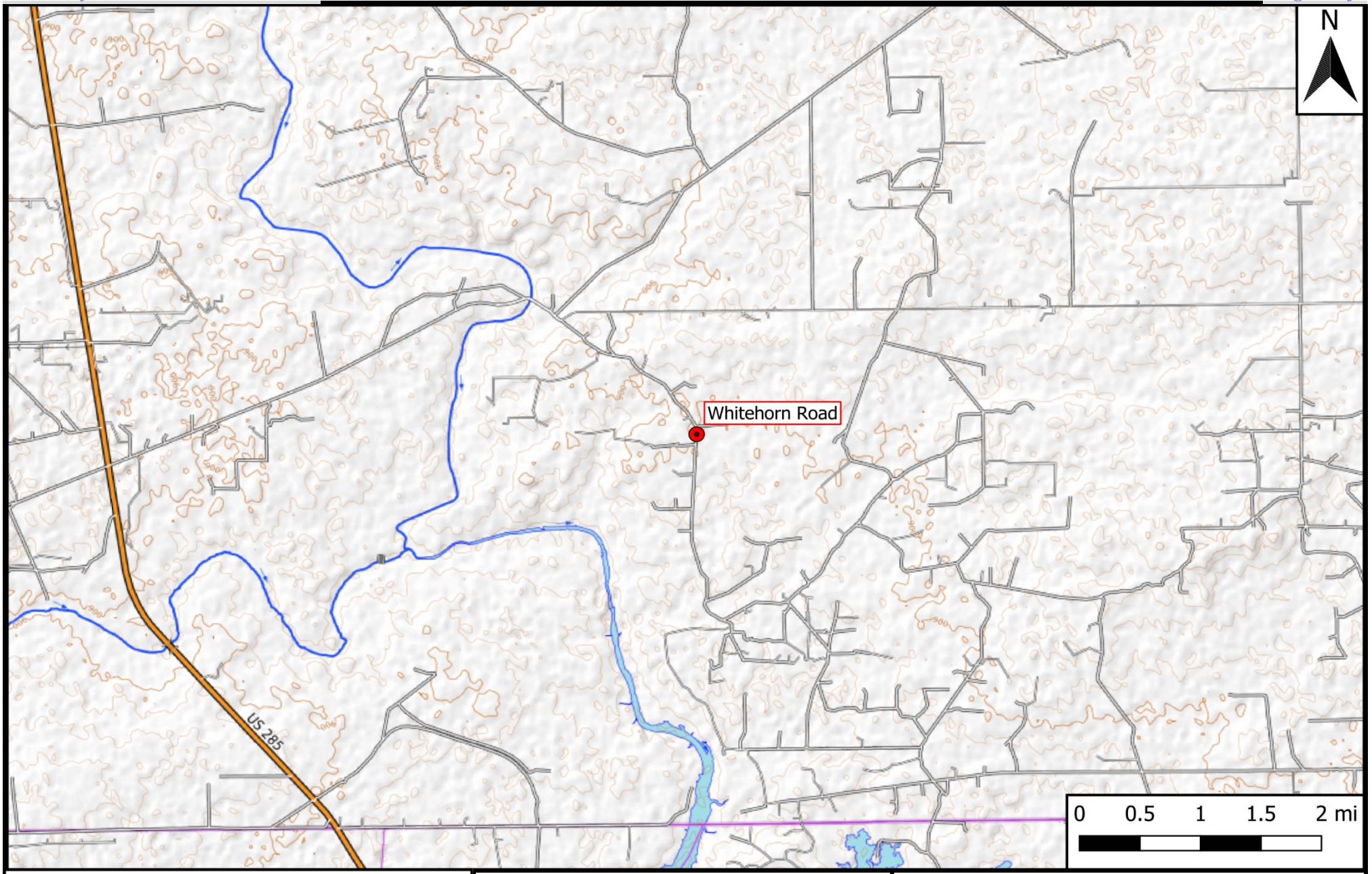
# 8.0 DISTRIBUTION

***Sunoco Partners Marketing & Terminals, LP***
*600 N. Marienfield St., Suite 700*
*Midland, TX 79701*

***New Mexico Energy, Minerals and Natural Resources Department***
*Oil Conservation Division, District 2*
*811 S. First Street*
*Artesia, NM 88210*

*(Electronic Submission)*

# Figure 1
# Topographic Map




Legend

Site Location

**Figure 1**

Topographic Map

Sunoco Partners Marketing & Terminals, LP

Whitehorn Road

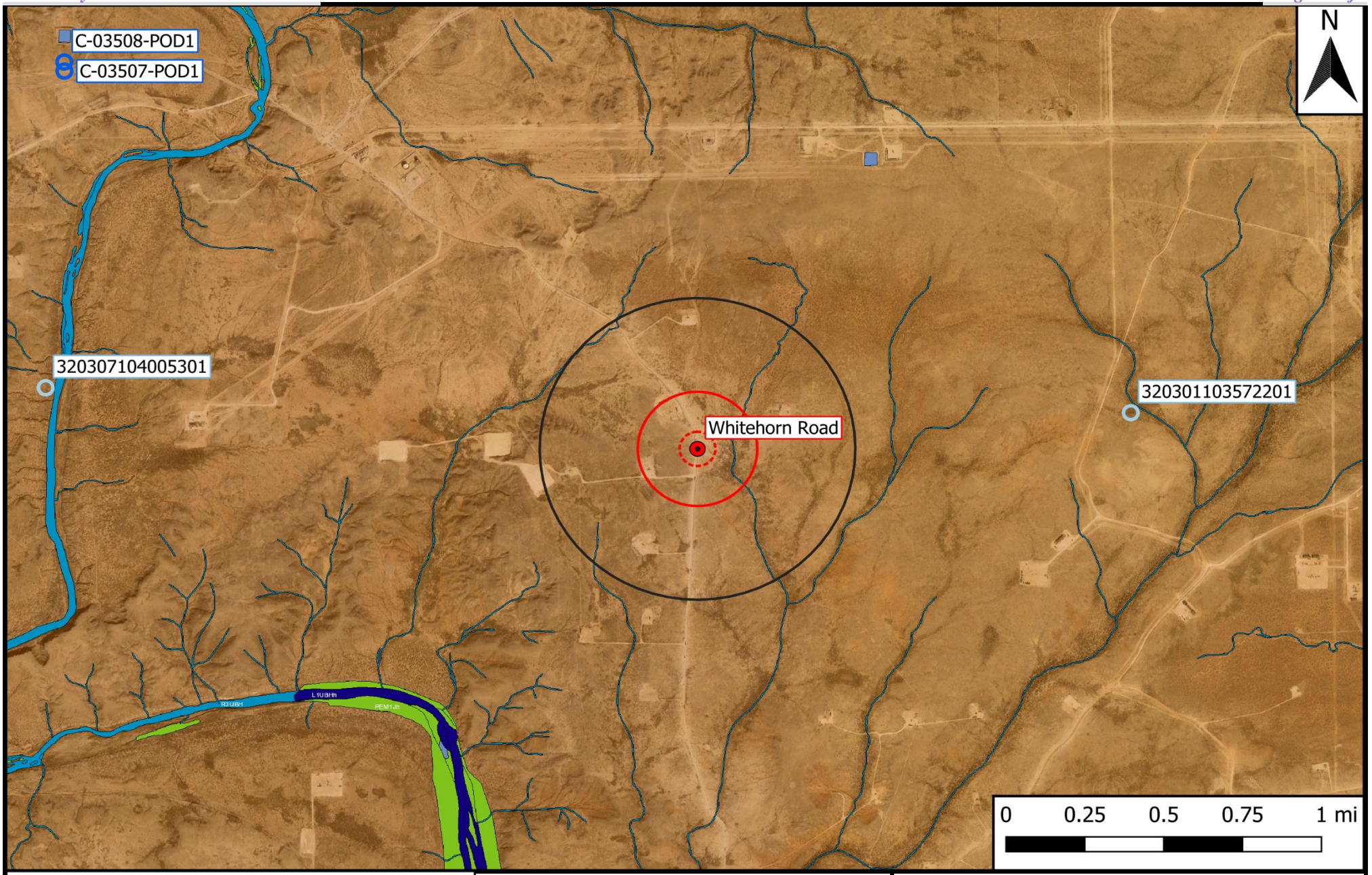
GPS: 32.04886, -103.98002

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 12/4/20

# Figure 2
# Aerial Proximity Map




Legend

- Site Location
- Well - NMOSE
- Well - USGS
- High Karst
- Medium Karst
- Potash Mine Workings
- 300 Foot Radius
- 0.5 Mi Radius
- 1000 Ft Radius
- 1% Annual Flood Chance
- Lake/Freshwater Pond
- Emergent/Forested Wetlands
- Riverine

**Figure 2**
Aerial Map
Sunoco Partners Marketing & Terminals, LP
Whitehorn Road
GPS: 32.04886, -103.98002
Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 12/1/20

# Figure 3
# Site and Sample Location Map


Legend

- Excavation
- Background Sample
- Composite Floor Sample
- Composite Wall Sample

**Figure 3**

Site & Sample Location Map

Sunoco Partners Marketing & Terminals, LP

Whitehorn Road

GPS: 32.04886, -103.98002

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: jwl Date: 12/4/20

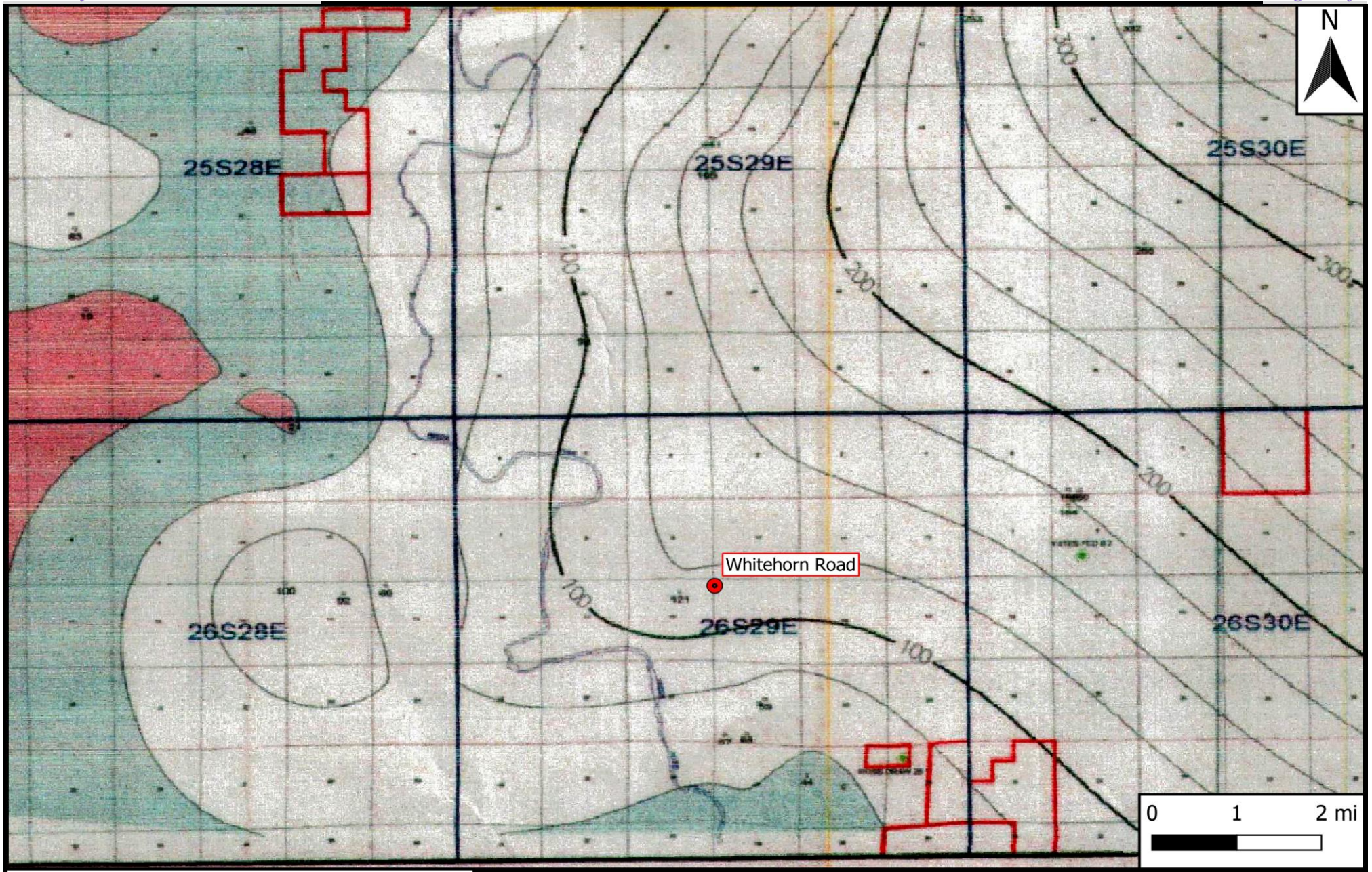
# Table 1
# Concentrations of BTEX, TPH, and/or Chloride in Soil

**TABLE 1**
**CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL**
**Sunoco Partners Marketing & Terminals, LP**
**Whitehorn Road**
**NMOCD Ref. #: nRM2033538690**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NMOCD Closure Criteria** | | | | **10** | **50** | **-** | **-** | **1,000** | **-** | **2,500** | **20,000** |
| **NMOCD Reclamation Standard** | | | | **10** | **50** | **-** | **-** | **-** | **-** | **100** | **600** |
| **Sample ID** | **Date** | **Depth** | **Soil Status** | **SW 846 8021B** | | **SW 846 8015M Ext.** | | | | | **4500 Cl** |
| | | | | **Benzene (mg/kg)** | **BTEX (mg/kg)** | **GRO $C_6$-$C_{10}$ (mg/kg)** | **DRO $C_{10}$-$C_{28}$ (mg/kg)** | **GRO + DRO $C_6$-$C_{28}$ (mg/kg)** | **ORO $C_{28}$-$C_{36}$ (mg/kg)** | **TPH $C_6$-$C_{36}$ (mg/kg)** | **Chloride (mg/kg)** |
| FL-1 | 11/17/2020 | 2' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 112 |
| FL-2 | 11/17/2020 | 2' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 80.0 |
| FL-3 | 11/17/2020 | 2' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 96.0 |
| FL-4 | 11/17/2020 | 3' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 624 |
| FL-5 | 11/17/2020 | 3' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 640 |
| FL-6 | 11/17/2020 | 3' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 992 |
| North | 11/17/2020 | 0' - 3' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 144 |
| East | 11/17/2020 | 0' - 3' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 1,020 |
| South | 11/17/2020 | 0' - 3' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 1,060 |
| West | 11/17/2020 | 0' - 3' | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 1,040 |
| BG-N | 11/23/2020 | Surface | In-Situ | - | - | - | - | - | - | - | 464 |
| BG-S | 11/23/2020 | Surface | In-Situ | - | - | - | - | - | - | - | 736 |
| BG-W | 11/23/2020 | Surface | In-Situ | - | - | - | - | - | - | - | 1,650 |

**NOTES:**
- = Sample not analyzed for that constituent.
**Bold** text denotes a concentration that exceeds the NMOCD Closure Criteria

# Appendix A
# Depth to Groundwater Information




Legend

Site Location

**Figure 4**

Inferred Depth to Groundwater Trend Map

Sunoco Partners Marketing & Terminals, LP

Whitehorn Road

GPS: 32.04886, -103.98002

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 12/4/20

*New Mexico Office of the State Engineer*

# Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

| POD Number | Code | POD Sub-basin | County | Q 64 | Q 16 | Q 4 | Sec | Twn | Rng | X | Y | Distance | Depth Well | Depth Water | Water Column |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C 01354 X-3 | | CUB | ED | 2 | 1 | 3 | 23 | 26S | 29E | 598323 | 3543837 | 3195 | 170 | | |
| C 03507 POD1 | | C | ED | 1 | 3 | 3 | 05 | 26S | 29E | 593064 | 3548313 | 3802 | 140 | 78 | 62 |
| C 03508 POD1 | | C | ED | 1 | 3 | 3 | 05 | 26S | 29E | 593063 | 3548361 | 3828 | 140 | 75 | 65 |
| C 03605 POD1 | | CUB | ED | 4 | 2 | 3 | 27 | 26S | 29E | 596990 | 3541983 | 4378 | 45 | 0 | 45 |

Average Depth to Water: **51 feet**

Minimum Depth: **0 feet**

Maximum Depth: **78 feet**

**Record Count:** 4

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 596293.68 **Northing (Y):** 3546306.33 **Radius:** 4830

# New Mexico Office of the State Engineer
# Point of Diversion Summary

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

| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Twn | Rng | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| | C 03507 POD1 | 1 | 3 | 3 | 05 | 26S | 29E | 593064 | 3548313 |

**Driller License:** 1058 **Driller Company:** KEY'S DRILLING & PUMP SERVICE

**Driller Name:** KEY, CLINTON

| | | | | | |
|---|---|---|---|---|---|
| **Drill Start Date:** | 08/26/2011 | **Drill Finish Date:** | 08/26/2011 | **Plug Date:** | |
| **Log File Date:** | 09/12/2011 | **PCW Rcv Date:** | | **Source:** | Shallow |
| **Pump Type:** | SUBMER | **Pipe Discharge Size:** | | **Estimated Yield:** | 35 GPM |
| **Casing Size:** | 6.00 | **Depth Well:** | 140 feet | **Depth Water:** | 78 feet |

| Water Bearing Stratifications: | Top | Bottom | Description |
|---|---|---|---|
| | 78 | 79 | Shale/Mudstone/Siltstone |
| | 105 | 106 | Sandstone/Gravel/Conglomerate |

| Casing Perforations: | Top | Bottom |
|---|---|---|
| | 75 | 112 |

*New Mexico Office of the State Engineer*

# Point of Diversion Summary

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

| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Twn | Rng | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| | C 03508 POD1 | 1 | 3 | 3 | 05 | 26S | 29E | 593063 | 3548361 |

**Driller License:** 1058 **Driller Company:** KEY'S DRILLING & PUMP SERVICE

**Driller Name:** KEY, CLINTON

| | | | | | |
|---|---|---|---|---|---|
| **Drill Start Date:** | 08/24/2011 | **Drill Finish Date:** | 08/24/2011 | **Plug Date:** | |
| **Log File Date:** | 09/12/2011 | **PCW Rcv Date:** | | **Source:** | Shallow |
| **Pump Type:** | SUBMER | **Pipe Discharge Size:** | | **Estimated Yield:** | 40 GPM |
| **Casing Size:** | 6.00 | **Depth Well:** | 140 feet | **Depth Water:** | 75 feet |

| Water Bearing Stratifications: | Top | Bottom | Description |
|---|---|---|---|
| | 75 | 76 | Shale/Mudstone/Siltstone |

| Casing Perforations: | Top | Bottom |
|---|---|---|
| | 65 | 105 |

*New Mexico Office of the State Engineer*

# Point of Diversion Summary

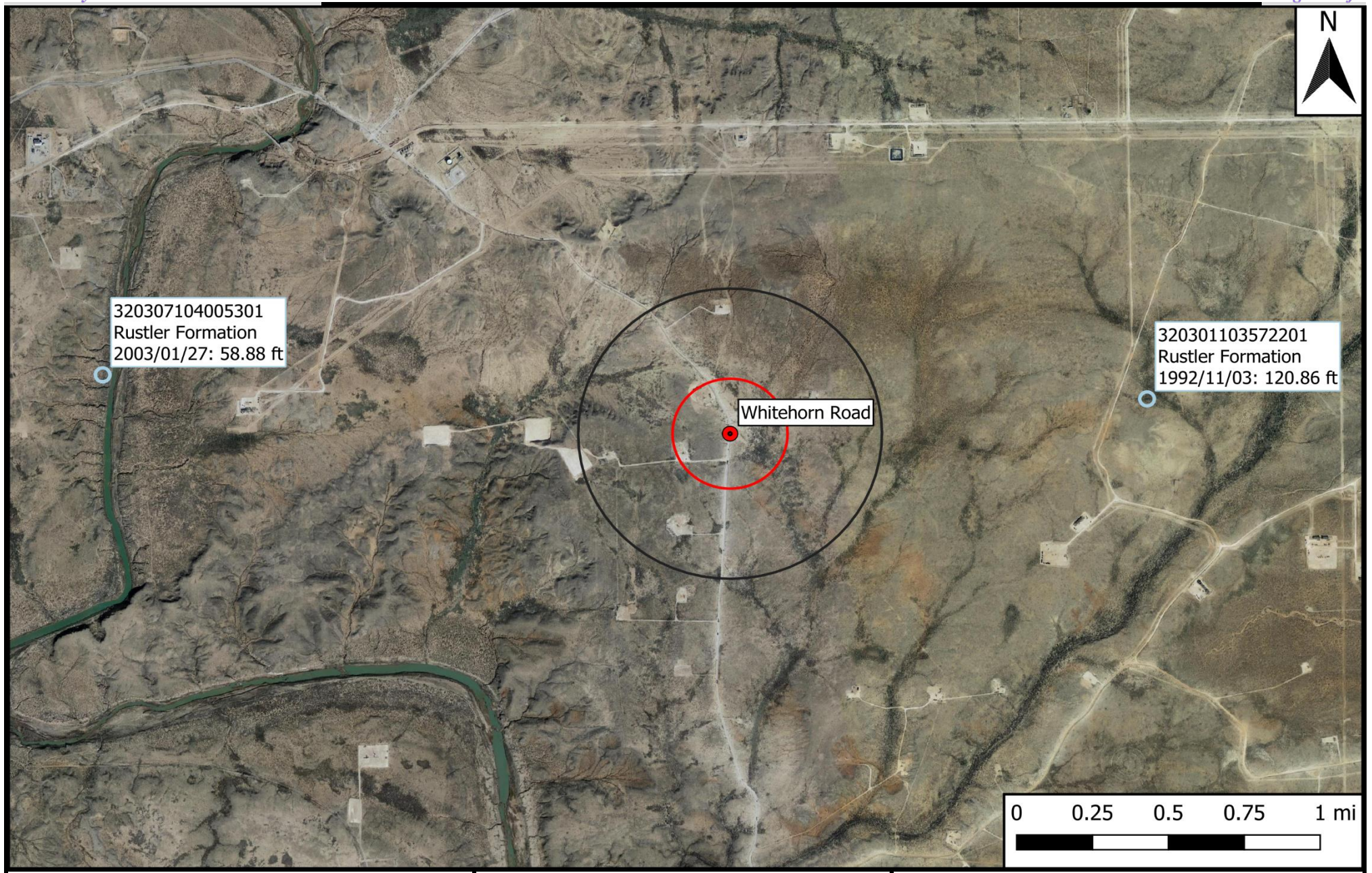
| Well Tag | POD Number | Q64 | Q16 | Q4 | Sec | Twp | Rng | X | Y |
|---|---|---|---|---|---|---|---|---|---|
| | C 03605 POD1 | 4 | 2 | 3 | 27 | 26S | 29E | 596990 | 3541983 |

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

**Driller License:** 1249 **Driller Company:** ATKINS ENGINEERING ASSOC. INC.

**Driller Name:** ATKINS, JACKIE D. (LD)

| | | | | | |
|---|---|---|---|---|---|
| **Drill Start Date:** | 01/23/2013 | **Drill Finish Date:** | 01/23/2013 | **Plug Date:** | 01/28/2013 |
| **Log File Date:** | 02/26/2013 | **PCW Rcv Date:** | | **Source:** | |
| **Pump Type:** | | **Pipe Discharge Size:** | | **Estimated Yield:** | |
| **Casing Size:** | | **Depth Well:** | 45 feet | **Depth Water:** | 0 feet |




Legend
- Site Location
- Well - USGS
- 0.5 Mi Radius
- 1000 Ft Radius

**Figure 5**
USGS Well Proximity Map
Sunoco Partners Marketing & Terminals, LP
Whitehorn Road
GPS: 32.04886, -103.98002
Eddy County

ETECH Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 12/4/20

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- **UPDATE** November 6, 2020 5:00 pm ET: A fix has been deployed for the issue impacting the delivery of real-time data to NWISWeb which occurred on November 1, 2020. Any remaining gaps in web display are being filled at this time. We apologize for any inconvenience this may have caused.
- Explore the **NEW** USGS National Water Dashboard to access real-time data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

## Search Results -- 1 sites found

**Agency code =** usgs
**site_no list =**
- 320301103572201

**Minimum number of levels =** 1
Save file of selected sites to local disk for future upload

---

## USGS 320301103572201 26S.29E.16.213241

Eddy County, New Mexico
Latitude 32°03'01", Longitude 103°57'22" NAD27
Land-surface elevation 2,958 feet above NAVD88
The depth of the well is 335 feet below land surface.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

**Output formats**

| |
|---|
| Table of data |
| Tab-separated data |
| Graph of data |
| Reselect period |

| Date | Time | ? Water-level date-time accuracy | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Water-level accuracy | ? Status | ? Method of measurement | ? Measuring agency | ? Source of measurement | ? Wate level appr statu |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1949-01-03 | | D | 125.03 | | | 2 | | U | | U | |
| 1977-03-09 | | D | 124.85 | | | 2 | | U | | U | |
| 1978-01-17 | | D | 123.62 | | | 2 | | U | | U | |
| 1987-10-14 | | D | 121.54 | | | 2 | | U | | U | |
| 1992-11-03 | | D | 120.86 | | | 2 | | S | | U | |

**Explanation**

| Section | Code | Description |
|---|---|---|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Water-level accuracy | 2 | Water level accuracy to nearest hundredth of a foot |
| Status | | The reported water-level measurement represents a static level |
| Method of measurement | S | Steel-tape measurement. |
| Method of measurement | U | Unknown method. |

| Section | Code | Description |
|---|---|---|
| Measuring agency | | Not determined |
| Source of measurement | U | Source is unknown. |
| Water-level approval status | A | Approved for publication -- Processing and review completed. |

---

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- **UPDATE** November 6, 2020 5:00 pm ET: A fix has been deployed for the issue impacting the delivery of real-time data to NWISWeb which occurred on November 1, 2020. Any remaining gaps in web display are being filled at this time. We apologize for any inconvenience this may have caused.
- Explore the **NEW** USGS National Water Dashboard to access real-time data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

## Search Results -- 1 sites found

**Agency code =** usgs
**site_no list =**
- 320307104005301

**Minimum number of levels =** 1
Save file of selected sites to local disk for future upload

## USGS 320307104005301 26S.28E.13.11214

Eddy County, New Mexico
Latitude 32°03'07", Longitude 104°00'53" NAD27
Land-surface elevation 2,858 feet above NAVD88
This well is completed in the Rustler Formation (312RSLR) local aquifer.

**Output formats**

| |
|---|
| Table of data |
| Tab-separated data |
| Graph of data |
| Reselect period |

| Date | Time | ? Water-level date-time accuracy | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Water-level accuracy | ? Status | ? Method of measurement | ? Measuring agency | ? Source of measurement | ? Wate level appr statu |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1948-12-15 | | D | 60.00 | | | 2 | | U | | | U |
| 1975-12-09 | | D | 59.49 | | | 2 | | U | | | U |
| 1976-01-20 | | D | 58.57 | | | 2 | | U | | | U |
| 1977-01-13 | | D | 54.33 | | | 2 | | U | | | U |
| 1978-02-23 | | D | 56.75 | | | 2 | | U | | | U |
| 1983-01-26 | | D | 53.10 | | | 2 | | U | | | U |
| 1987-10-14 | | D | 55.14 | | | 2 | | U | | | U |
| 1988-03-22 | | D | 57.73 | | | 2 | | U | | | U |
| 1993-01-05 | | D | 59.83 | | | 2 | | S | | | U |
| 1998-01-22 | | D | 53.45 | | | 2 | | S | | | U |
| 2003-01-27 | | D | 58.88 | | | 2 | | S | USGS | | A |

**Explanation**

| Section | Code | Description |
|---|---|---|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Water-level accuracy | 2 | Water level accuracy to nearest hundredth of a foot |
| Status | | The reported water-level measurement represents a static level |
| Method of measurement | S | Steel-tape measurement. |
| Method of measurement | U | Unknown method. |
| Measuring agency | | Not determined |
| Measuring agency | USGS | U.S. Geological Survey |
| Source of measurement | A | Reported by another government agency (do not use "A" if reported by owner, use "O"). |
| Source of measurement | U | Source is unknown. |
| Water-level approval status | A | Approved for publication -- Processing and review completed. |

# Appendix B
# Field Data and Soil Profile Logs

eTECH Environmental & Safety Solutions, Inc.

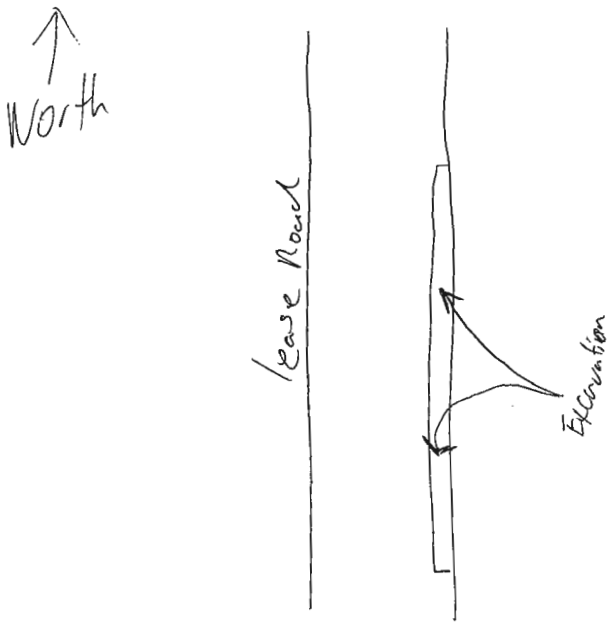
# Initial Release Assessment Form

Date:

Project: Sunoco Truck Release Clean Up Level: 600 mg/kg Cl-, 100 mg/kg TPH

Project Number: 13427 Latitude: 32.04886 Longitude: -103.98002

**Site Diagram**




**Notes:** Heavy Traffic & long distance to stockpile on a location

~Length: 185' ~Width: 3-4 ~Area: N/A ~Depth: 2'-3'

| | Yes | No |
|---|---|---|
| 3-4 Representative Pictures of the Affected Area including sample locations? | ☒ | ☐ |
| Necessary Samples Field Screened and on Ice? | ☒ | ☐ |
| Sample and Field Screen Data Entered on Sample Log? | ☐ | ☒ |
| Was horizontal and vertical delineation achieved? | ☒ | ☐ |

ETECH Environmental & Safety Solutions, Inc.

# Sample Log

Date: _____

Project: Sunoco Truck Release

Project Number: 13427 Latitude: 32.04886 Longitude: -103.98002

| Sample ID | PID/Odor | Chloride Conc. | GPS |
|---|---|---|---|
| ~~Backfill~~ | | N/A | |
| NW-1 | NO | | |
| EW-~~2~~-1 | NO | | |
| WW-~~3~~-1 | NO | | |
| ~~South~~ SW~~1~~-1 | NO | | |
| FL-1 | NO | | |
| FL-2 | NO | | |
| FL-3 | NO | | |
| FL-4 | NO | | |
| FL-5 | NO | | |

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

eTECH Environmental & Safety Solutions, Inc.

# Soil Profile

Date: _____

Project: Sunoco Truck Release

Project Number: 13427 Latitude: 32.04886 Longitude: -103.98002

| Depth (ft. bgs) | Description |
|---|---|
| 1 | |
| 2 surface | Caliche |
| 3 1 | Caliche |
| 4 2 | Caliche-Sand |
| 5 3 | Caliche-Sand |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |
| 11 | |
| 12 | |
| 13 | |
| 14 | |
| 15 | |
| 16 | |
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| 39 | |
| 40 | |

# Appendix C
# Laboratory Analytical Reports

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 18, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SUNOCO TRUCK RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 11/17/20 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| | |
|---|---|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

| | | | |
|---|---|---|---|
| Received: | 11/17/2020 | Sampling Date: | 11/17/2020 |
| Reported: | 11/18/2020 | Sampling Type: | Soil |
| Project Name: | SUNOCO TRUCK RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | 13427 | Sample Received By: | Tamara Oldaker |
| Project Location: | ETC - EDDY CO NM | | |

### Sample ID: FL - 1 (H003047-01)

**BTEX 8021B** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.93 | 96.5 | 2.00 | 5.03 | |
| Toluene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.86 | 92.8 | 2.00 | 5.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.94 | 96.9 | 2.00 | 5.11 | |
| Total Xylenes* | <0.150 | 0.150 | 11/18/2020 | ND | 5.57 | 92.8 | 6.00 | 4.79 | |
| Total BTEX | <0.300 | 0.300 | 11/18/2020 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *99.5 %* *73.3-129*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: GM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **112** | 16.0 | 11/18/2020 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 11/18/2020 | ND | 218 | 109 | 200 | 9.37 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/18/2020 | ND | 218 | 109 | 200 | 17.6 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/18/2020 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *81.4 %* *44.3-144*

*Surrogate: 1-Chlorooctadecane* *77.5 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

| | | | |
|---|---|---|---|
| Received: | 11/17/2020 | Sampling Date: | 11/17/2020 |
| Reported: | 11/18/2020 | Sampling Type: | Soil |
| Project Name: | SUNOCO TRUCK RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | 13427 | Sample Received By: | Tamara Oldaker |
| Project Location: | ETC - EDDY CO NM | | |

### Sample ID: FL - 2 (H003047-02)

**BTEX 8021B** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.93 | 96.5 | 2.00 | 5.03 | |
| Toluene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.86 | 92.8 | 2.00 | 5.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.94 | 96.9 | 2.00 | 5.11 | |
| Total Xylenes* | <0.150 | 0.150 | 11/18/2020 | ND | 5.57 | 92.8 | 6.00 | 4.79 | |
| Total BTEX | <0.300 | 0.300 | 11/18/2020 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *100 %* *73.3-129*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: GM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **80.0** | 16.0 | 11/18/2020 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 11/18/2020 | ND | 218 | 109 | 200 | 9.37 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/18/2020 | ND | 218 | 109 | 200 | 17.6 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/18/2020 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *79.5 %* *44.3-144*

*Surrogate: 1-Chlorooctadecane* *75.6 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

| | | | |
|---|---|---|---|
| Received: | 11/17/2020 | Sampling Date: | 11/17/2020 |
| Reported: | 11/18/2020 | Sampling Type: | Soil |
| Project Name: | SUNOCO TRUCK RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | 13427 | Sample Received By: | Tamara Oldaker |
| Project Location: | ETC - EDDY CO NM | | |

### Sample ID: FL - 3 (H003047-03)

**BTEX 8021B** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.93 | 96.5 | 2.00 | 5.03 | |
| Toluene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.86 | 92.8 | 2.00 | 5.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.94 | 96.9 | 2.00 | 5.11 | |
| Total Xylenes* | <0.150 | 0.150 | 11/18/2020 | ND | 5.57 | 92.8 | 6.00 | 4.79 | |
| Total BTEX | <0.300 | 0.300 | 11/18/2020 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *99.3 %* *73.3-129*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: GM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **96.0** | 16.0 | 11/18/2020 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 11/18/2020 | ND | 218 | 109 | 200 | 9.37 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/18/2020 | ND | 218 | 109 | 200 | 17.6 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/18/2020 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *83.4 %* *44.3-144*

*Surrogate: 1-Chlorooctadecane* *78.9 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

| | | | |
|---|---|---|---|
| Received: | 11/17/2020 | Sampling Date: | 11/17/2020 |
| Reported: | 11/18/2020 | Sampling Type: | Soil |
| Project Name: | SUNOCO TRUCK RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | 13427 | Sample Received By: | Tamara Oldaker |
| Project Location: | ETC - EDDY CO NM | | |

### Sample ID: FL - 4 (H003047-04)

**BTEX 8021B** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.93 | 96.5 | 2.00 | 5.03 | |
| Toluene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.86 | 92.8 | 2.00 | 5.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.94 | 96.9 | 2.00 | 5.11 | |
| Total Xylenes* | <0.150 | 0.150 | 11/18/2020 | ND | 5.57 | 92.8 | 6.00 | 4.79 | |
| Total BTEX | <0.300 | 0.300 | 11/18/2020 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *98.7 %* *73.3-129*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: GM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **624** | 16.0 | 11/18/2020 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 11/18/2020 | ND | 218 | 109 | 200 | 9.37 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/18/2020 | ND | 218 | 109 | 200 | 17.6 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/18/2020 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *80.6 %* *44.3-144*

*Surrogate: 1-Chlorooctadecane* *76.4 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

| | | | |
|---|---|---|---|
| Received: | 11/17/2020 | Sampling Date: | 11/17/2020 |
| Reported: | 11/18/2020 | Sampling Type: | Soil |
| Project Name: | SUNOCO TRUCK RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | 13427 | Sample Received By: | Tamara Oldaker |
| Project Location: | ETC - EDDY CO NM | | |

### Sample ID: FL - 5 (H003047-05)

**BTEX 8021B** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.93 | 96.5 | 2.00 | 5.03 | |
| Toluene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.86 | 92.8 | 2.00 | 5.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.94 | 96.9 | 2.00 | 5.11 | |
| Total Xylenes* | <0.150 | 0.150 | 11/18/2020 | ND | 5.57 | 92.8 | 6.00 | 4.79 | |
| Total BTEX | <0.300 | 0.300 | 11/18/2020 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *102 %* *73.3-129*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: GM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **640** | 16.0 | 11/18/2020 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 11/18/2020 | ND | 218 | 109 | 200 | 9.37 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/18/2020 | ND | 218 | 109 | 200 | 17.6 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/18/2020 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *87.3 %* *44.3-144*

*Surrogate: 1-Chlorooctadecane* *82.9 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

| | | | |
|---|---|---|---|
| Received: | 11/17/2020 | Sampling Date: | 11/17/2020 |
| Reported: | 11/18/2020 | Sampling Type: | Soil |
| Project Name: | SUNOCO TRUCK RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | 13427 | Sample Received By: | Tamara Oldaker |
| Project Location: | ETC - EDDY CO NM | | |

### Sample ID: FL - 6 (H003047-06)

**BTEX 8021B** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.93 | 96.5 | 2.00 | 5.03 | |
| Toluene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.86 | 92.8 | 2.00 | 5.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.94 | 96.9 | 2.00 | 5.11 | |
| Total Xylenes* | <0.150 | 0.150 | 11/18/2020 | ND | 5.57 | 92.8 | 6.00 | 4.79 | |
| Total BTEX | <0.300 | 0.300 | 11/18/2020 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *101 %* *73.3-129*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: GM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **992** | 16.0 | 11/18/2020 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 11/18/2020 | ND | 218 | 109 | 200 | 9.37 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/18/2020 | ND | 218 | 109 | 200 | 17.6 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/18/2020 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *84.8 %* *44.3-144*

*Surrogate: 1-Chlorooctadecane* *80.2 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

| | | | |
|---|---|---|---|
| Received: | 11/17/2020 | Sampling Date: | 11/17/2020 |
| Reported: | 11/18/2020 | Sampling Type: | Soil |
| Project Name: | SUNOCO TRUCK RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | 13427 | Sample Received By: | Tamara Oldaker |
| Project Location: | ETC - EDDY CO NM | | |

### Sample ID: NORTH (H003047-07)

**BTEX 8021B** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.93 | 96.5 | 2.00 | 5.03 | |
| Toluene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.86 | 92.8 | 2.00 | 5.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.94 | 96.9 | 2.00 | 5.11 | |
| Total Xylenes* | <0.150 | 0.150 | 11/18/2020 | ND | 5.57 | 92.8 | 6.00 | 4.79 | |
| Total BTEX | <0.300 | 0.300 | 11/18/2020 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *102 %* *73.3-129*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: GM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **144** | 16.0 | 11/18/2020 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 11/18/2020 | ND | 196 | 97.8 | 200 | 11.8 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/18/2020 | ND | 211 | 106 | 200 | 18.1 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/18/2020 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *86.6 %* *44.3-144*

*Surrogate: 1-Chlorooctadecane* *94.9 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

| | | | |
|---|---|---|---|
| Received: | 11/17/2020 | Sampling Date: | 11/17/2020 |
| Reported: | 11/18/2020 | Sampling Type: | Soil |
| Project Name: | SUNOCO TRUCK RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | 13427 | Sample Received By: | Tamara Oldaker |
| Project Location: | ETC - EDDY CO NM | | |

### Sample ID: EAST (H003047-08)

**BTEX 8021B** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.93 | 96.5 | 2.00 | 5.03 | |
| Toluene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.86 | 92.8 | 2.00 | 5.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.94 | 96.9 | 2.00 | 5.11 | |
| Total Xylenes* | <0.150 | 0.150 | 11/18/2020 | ND | 5.57 | 92.8 | 6.00 | 4.79 | |
| Total BTEX | <0.300 | 0.300 | 11/18/2020 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *101 %* *73.3-129*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: GM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1020** | 16.0 | 11/18/2020 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 11/18/2020 | ND | 196 | 97.8 | 200 | 11.8 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/18/2020 | ND | 211 | 106 | 200 | 18.1 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/18/2020 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *70.4 %* *44.3-144*

*Surrogate: 1-Chlorooctadecane* *76.6 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

| | | | |
|---|---|---|---|
| Received: | 11/17/2020 | Sampling Date: | 11/17/2020 |
| Reported: | 11/18/2020 | Sampling Type: | Soil |
| Project Name: | SUNOCO TRUCK RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | 13427 | Sample Received By: | Tamara Oldaker |
| Project Location: | ETC - EDDY CO NM | | |

### Sample ID: SOUTH (H003047-09)

**BTEX 8021B** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.93 | 96.5 | 2.00 | 5.03 | |
| Toluene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.86 | 92.8 | 2.00 | 5.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.94 | 96.9 | 2.00 | 5.11 | |
| Total Xylenes* | <0.150 | 0.150 | 11/18/2020 | ND | 5.57 | 92.8 | 6.00 | 4.79 | |
| Total BTEX | <0.300 | 0.300 | 11/18/2020 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *102 %* *73.3-129*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: GM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1060** | 16.0 | 11/18/2020 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 11/18/2020 | ND | 196 | 97.8 | 200 | 11.8 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/18/2020 | ND | 211 | 106 | 200 | 18.1 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/18/2020 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *84.4 %* *44.3-144*

*Surrogate: 1-Chlorooctadecane* *92.2 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

| | | | |
|---|---|---|---|
| Received: | 11/17/2020 | Sampling Date: | 11/17/2020 |
| Reported: | 11/18/2020 | Sampling Type: | Soil |
| Project Name: | SUNOCO TRUCK RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | 13427 | Sample Received By: | Tamara Oldaker |
| Project Location: | ETC - EDDY CO NM | | |

### Sample ID: WEST (H003047-10)

**BTEX 8021B** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| Benzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.93 | 96.5 | 2.00 | 5.03 | |
| Toluene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.86 | 92.8 | 2.00 | 5.05 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/18/2020 | ND | 1.94 | 96.9 | 2.00 | 5.11 | |
| Total Xylenes* | <0.150 | 0.150 | 11/18/2020 | ND | 5.57 | 92.8 | 6.00 | 4.79 | |
| Total BTEX | <0.300 | 0.300 | 11/18/2020 | ND | | | | | |

*Surrogate: 4-Bromofluorobenzene (PID* *99.6 %* *73.3-129*

**Chloride, SM4500Cl-B** mg/kg Analyzed By: GM

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1040** | 16.0 | 11/18/2020 | ND | 432 | 108 | 400 | 0.00 | |

**TPH 8015M** mg/kg Analyzed By: MS

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| GRO C6-C10* | <10.0 | 10.0 | 11/18/2020 | ND | 196 | 97.8 | 200 | 11.8 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/18/2020 | ND | 211 | 106 | 200 | 18.1 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/18/2020 | ND | | | | | |

*Surrogate: 1-Chlorooctane* *81.8 %* *44.3-144*

*Surrogate: 1-Chlorooctadecane* *89.5 %* *42.2-156*

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Notes and Definitions

| | |
|---|---|
| QR-02 | The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories *=Accredited Analyte



Celey D. Keene, Lab Director/Quality Manager

# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| | | | |
|---|---|---|---|
| **Company Name:** | Etech Environmental & Safety Solutions, Inc. | **BILL TO** | |
| **Project Manager:** | Joel Lowry | **P.O. #:** | |
| **Address:** | P.O. Box 301 | **Company:** | ETC C/O Ryan Reich |
| **City:** | Lovington **State:** NM **Zip:** 88260 | **Attn:** | |
| **Phone #:** | (575) 396-2378 **Fax #:** (575) 396-1429 | **Address:** | |
| **Project #:** | 13427 **Project Owner:** ETC | **City:** | |
| **Project Name:** | Sunoco Truck Release | **State:** **Zip:** | |
| **Project Location:** | Rural Eddy, NM | **Phone #:** | |
| **Sampler Name:** | Dustin Crockett | **Fax #:** | |

| FOR LAB USE ONLY | | | | MATRIX | | | | | | PRESERV. | | | SAMPLING | | ANALYSIS REQUEST | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL | OTHER : | DATE | TIME | Chloride | TPH (8015M) | BTEX (8021B) | | | | | | | | | | |
| H003047 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | FL-1 | C | 1 | | | X | | | | | X | | 11/17/20 | | X | X | X | | | | | | | | | |
| 2 | FL-2 | C | 1 | | | X | | | | | X | | 11/17/20 | | X | X | X | | | | | | | | | |
| 3 | FL-3 | C | 1 | | | X | | | | | X | | 11/17/20 | | X | X | X | | | | | | | | | |
| 4 | FL-4 | C | 1 | | | X | | | | | X | | 11/17/20 | | X | X | X | | | | | | | | | |
| 5 | FL-5 | C | 1 | | | X | | | | | X | | 11/17/20 | | X | X | X | | | | | | | | | |
| 6 | FL-6 | C | 1 | | | X | | | | | X | | 11/17/20 | | X | X | X | | | | | | | | | |
| 7 | North | C | 1 | | | X | | | | | X | | 11/17/20 | | X | X | X | | | | | | | | | |
| 8 | East | C | 1 | | | X | | | | | X | | 11/17/20 | | X | X | X | | | | | | | | | |
| 9 | South | C | 1 | | | X | | | | | X | | 11/17/20 | | X | X | X | | | | | | | | | |
| 10 | West | C | 1 | | | X | | | | | X | | 11/17/20 | | X | X | X | | | | | | | | | |



| | | | |
|---|---|---|---|
| **Relinquished By:** | **Date:** 11-17-20 | **Received By:** | Phone Result: ☐ Yes ☐ No Add'l Phone #: |
| | **Time:** 1635 | | Fax Result: ☐ Yes ☐ No Add'l Fax #: |
| **Relinquished By:** | **Date:** | **Received By:** | **REMARKS:** |
| | **Time:** | | Please email results to pm@etechenv.com. **RUSH CHLORIDE AND TPH.** |

**Delivered By: (Circle One)**
Sampler - UPS - Bus - Other: 4.3°c #413

**Sample Condition** Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No

**CHECKED BY: (Initials)** T.O.

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Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 23, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SUNOCO TRUCK RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 11/20/20 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| | |
|---|---|
| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## *Analytical Results For:*

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

| | | | |
|---|---|---|---|
| Received: | 11/20/2020 | Sampling Date: | 11/19/2020 |
| Reported: | 11/23/2020 | Sampling Type: | Soil |
| Project Name: | SUNOCO TRUCK RELEASE | Sampling Condition: | Cool & Intact |
| Project Number: | 13427 | Sample Received By: | Tamara Oldaker |
| Project Location: | ETC - EDDY CO NM | | |

### Sample ID: BG - N (H003085-01)

**Chloride, SM4500Cl-B** mg/kg **Analyzed By: AC**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **464** | 16.0 | 11/23/2020 | ND | 400 | 100 | 400 | 7.69 | |

### Sample ID: BG - S (H003085-02)

**Chloride, SM4500Cl-B** mg/kg **Analyzed By: AC**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **736** | 16.0 | 11/23/2020 | ND | 400 | 100 | 400 | 7.69 | |

### Sample ID: BG - W (H003085-03)

**Chloride, SM4500Cl-B** mg/kg **Analyzed By: AC**

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1650** | 16.0 | 11/23/2020 | ND | 400 | 100 | 400 | 7.69 | |

Cardinal Laboratories *=Accredited Analyte



Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

## Notes and Definitions

| | |
|---|---|
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories *=Accredited Analyte



Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

| | | | |
|---|---|---|---|
| **Company Name:** | Etech Environmental & Safety Solutions, Inc. | **BILL TO** | |
| **Project Manager:** | Joel Lowry | **P.O. #:** | |
| **Address:** | P.O. Box 301 | **Company:** | ETC C/O Ryan Reich |
| **City:** | Lovington **State:** NM **Zip:** 88260 | **Attn:** | |
| **Phone #:** | (575) 396-2378 **Fax #:** (575) 396-1429 | **Address:** | |
| **Project #:** | 13427 **Project Owner:** ETC | **City:** | |
| **Project Name:** | Sunoco Truck Release | **State:** | **Zip:** |
| **Project Location:** | Rural Eddy, NM | **Phone #:** | |
| **Sampler Name:** | Dustin Crockett | **Fax #:** | |

| FOR LAB USE ONLY Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | MATRIX: GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | PRESERV.: ACID/BASE: | ICE / COOL | OTHER : | SAMPLING: DATE | TIME | ANALYSIS REQUEST: Chloride | TPH (8015M) | BTEX (8021B) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H003085 | | | | | | | | | | | | | | | | | |
| 1 | BG - N | G | 1 | | | X | | | | | X | | 11/19/20 | | X | | |
| 2 | BG - S | G | 1 | | | X | | | | | X | | 11/19/20 | | X | | |
| 3 | BG - W | G | 1 | | | X | | | | | X | | 11/19/20 | | X | | |

**PLEASE NOTE:** Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| | | | |
|---|---|---|---|
| **Relinquished By:** | **Date:** 11-20-20 | **Received By:** | Phone Result: ☐ Yes ☐ No Add'l Phone #: |
| | **Time:** 1450 | | Fax Result: ☐ Yes ☐ No Add'l Fax #: |
| **Relinquished By:** | **Date:** | **Received By:** | **REMARKS:** |
| | **Time:** | | Please email results to pm@etechenv.com. **RUSH SAMPLES.** |

**Delivered By: (Circle One)** Sampler - UPS - Bus - Other: 2.1°C #113

**Sample Condition** Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No

**CHECKED BY: (Initials)** TO

FORM-006
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

# Appendix D
# Photographic Log

# Photographic Log

| | |
|---|---|
| **Photo Number:** 1<br>**Photo Direction:** South<br>**Photo Description:**<br>Point of Release |  |

| | |
|---|---|
| **Photo Number:** 2<br>**Photo Direction:** North<br>**Photo Description:**<br>Excavation |  |

# Photographic Log

| | |
|---|---|
| **Photo Number:** 3 |  |
| **Photo Direction:** South | |
| **Photo Description:** Excavation | |

| | |
|---|---|
| **Photo Number:** 4 |  |
| **Photo Direction:** South | |
| **Photo Description:** Backfilled Excavation | |

**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 11521

## CONDITIONS OF APPROVAL

| Operator: | OGRID: | Action Number: | Action Type: |
|---|---|---|---|
| ETC TEXAS PIPELINE, LTD. 8111 Westchester Drive Suite 600 Dallas, TX75225 | 371183 | 11521 | C-141 |

| OCD Reviewer | Condition |
|---|---|
| ceads | None |