



## **SITE DELINEATION AND REMEDIATION/RECLAMATION WORKPLAN**

**Chevron Corporation  
Hudgens #001  
Lea County, New Mexico  
Unit Letter "J", Section 11, Township 16 South, Range 36 East  
Latitude 32.93498° North, Longitude 103.32315° West  
NMOCD Reference #: nCOH0807129681**

Prepared For:

**Chevron Corporation  
6301 Deauville Blvd.  
Midland, TX 79706**

Prepared By:

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

**September 1, 2022**

A handwritten signature in blue ink that reads "Blake Estep".

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Blake Estep  
Project Manager

A handwritten signature in blue ink that reads "Jeff Kindley".

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Jeff Kindley, P.G.  
Senior Project Manager

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## INTRODUCTION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Chevron Corporation, has prepared this *Site Delineation and Remediation/Reclamation Workplan* for the Release Site known as Hudgens #001. The legal description of the Release Site is Unit Letter “J”, Section 11, Township 16 South, Range 36 East, in Lea County, New Mexico. The Release Site GPS coordinates are 32.93498° North and 103.32315° West. A “Topographic Map” and “Aerial Proximity Map” are provided as Figures 1 & 2, respectfully.

On February 4, 2008, approximately five (5) barrels of crude oil was released with approximately two (2) barrels of crude oil recovered, for a net loss of three (3) barrels. A copy of the Release Notification and Corrective Action (NMCOD Form C-141) is provided as Appendix A.

Photographic documentation for the Release Site is provided as Appendix B.

## NMOCD SITE CLASSIFICATION

New Mexico Oil Conservation Division (NMOCD) assessment and cleanup levels for hydrocarbon and produced water releases are based on depth to groundwater and karst status and follow the criteria in the revised August 2018 Title 19 Chapter 15 part 29 New Mexico Administrative Code (19.15.29 NMAC) regulations. Groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE), New Mexico Bureau of Geology & Mineral Resources (NMBGMR), and United States Geological Survey (USGS) were accessed to determine if any registered water wells were located within a half-mile of the site. The databases identified fifty-two (52) water wells within a ½-mile radius. Four (4) water wells are located within one thousand (1,000) feet (ft) of the release. The closest water well located within 500 feet of the release is NMOSE Well # L-00135-POD4 with a depth to water of seventy-five (75) feet below ground surface (bgs). The average depth to water in a half-mile radius is seventy-five (75) feet bgs. The site is listed as being in a low Karst Topography region. See Figure 3 “USGS Well Proximity Map” for well proximity to site. See Appendix C for maps, along with water well data, detailing the site relative to groundwater locations. Since the equipment and tank battery has been removed and a water well is located < 1000 feet from site the Cleanup Standards for reclamation is as follows:

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

## **INITIAL SITE ASSESSMENT AND DELINEATION**

On January 5, 2022, Etech was onsite to perform the initial assessment and delineation of the release. Two (2) auger holes (Auger Hole 1 and Auger Hole 2) were installed in the inferred spill area to depths ranging from six (6) inches bgs to twelve (12) inches bgs. Refusal was encountered in both Auger Holes at a depth of twelve (12) inches bgs. Samples were submitted to Eurofins in Midland, Texas to be analyzed for Total Petroleum Hydrocarbons (TPH) by EPA method 8015M, chloride by EPA method E300.0, and Benzene, Toluene, Ethylbenzene & Xylenes (BTEX) by EPA method 8021B. A "Site Sample Location Map" is provided as Figure 4.

Laboratory results indicated TPH, and BTEX concentrations were below the NMOCD required remedial action levels (RRAL's) in each of the submitted soil samples (refer to Table 1). However, the chlorides were above the NMOCD reclamation standards of 600 milligram per kilogram (mg/Kg) for all samples.

Laboratory analytical reports are provided in Appendix D.

## **SOIL DELINEATION AND REMEDIATION/RECLAMATION WORKPLAN**

Etech proposes to complete delineation and remediation/reclamation in accordance with NMOCD rules and regulations which will entail the following:

- Impacted soils will be excavated to appropriate depths based on delineation data and stockpiled on plastic awaiting disposal.
- During excavation activities soils will be field screened utilizing chloride test kits and a PID meter for determination of laboratory sampling and additional excavation, if warranted.
- Upon completion of the excavation, confirmation soil samples will be collected every two hundred (200) square feet from the base and sidewalls (representing no more than 50 linear feet) of the excavated areas. Additional, discrete grab samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary. Samples will be submitted to Permian Basin Environmental Labs of Texas (PBELAB) for analysis of BTEX by EPA Method 8021B, TPH by EPA Method 8015M, and chlorides by EPA method E300.0.
- The impacted soils will be transported off-site for disposal at an NMOCD approved disposal facility.
- Upon completion of delineation, remediation and requisite soil sampling, the site will be backfilled with locally sourced, non-impacted "like" material from an approved off-site facility and brought back to grade.
- A closure report with final C-141 will be submitted to the NMOCD upon completion of remediation activities.

Once the soil delineation and remediation/reclamation work plan has been approved by the NMOCD, Chevron will commence and complete remediation activities ninety (90) days and submit a "*Remediation Summary and Site Closure Request Report*" to the NMOCD.

## LIMITATIONS

Etech has prepared this Closure Request 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 Chevron Corporation. 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 Chevron Corporation.

## DISTRIBUTION

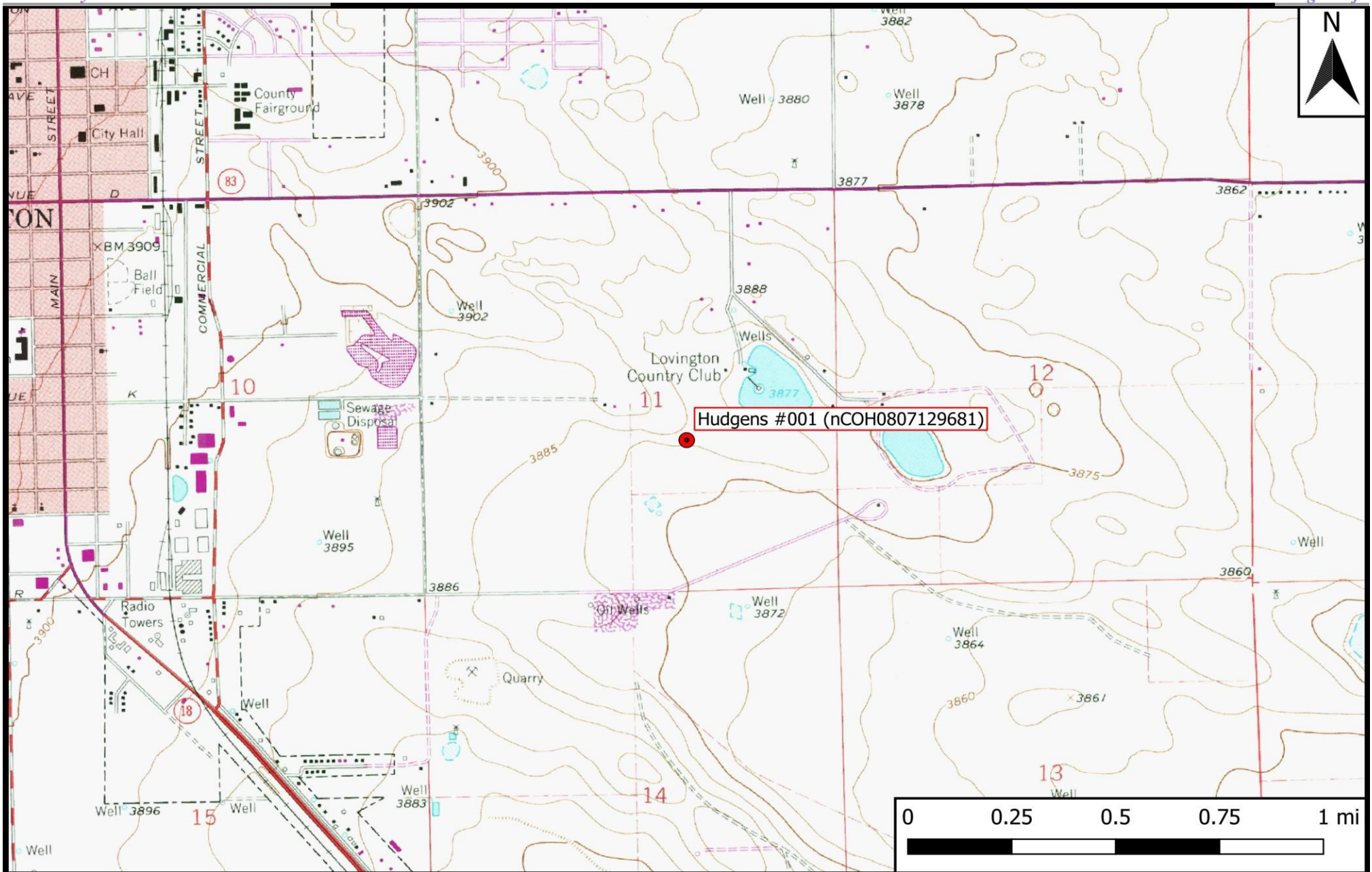
Copy 1: New Mexico Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, New Mexico 87505

Copy 2: Amy Barnhill  
Chevron Corporation  
6301 Deauville Blvd.  
Midland, Texas 79706

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

## **FIGURES**





**Legend**

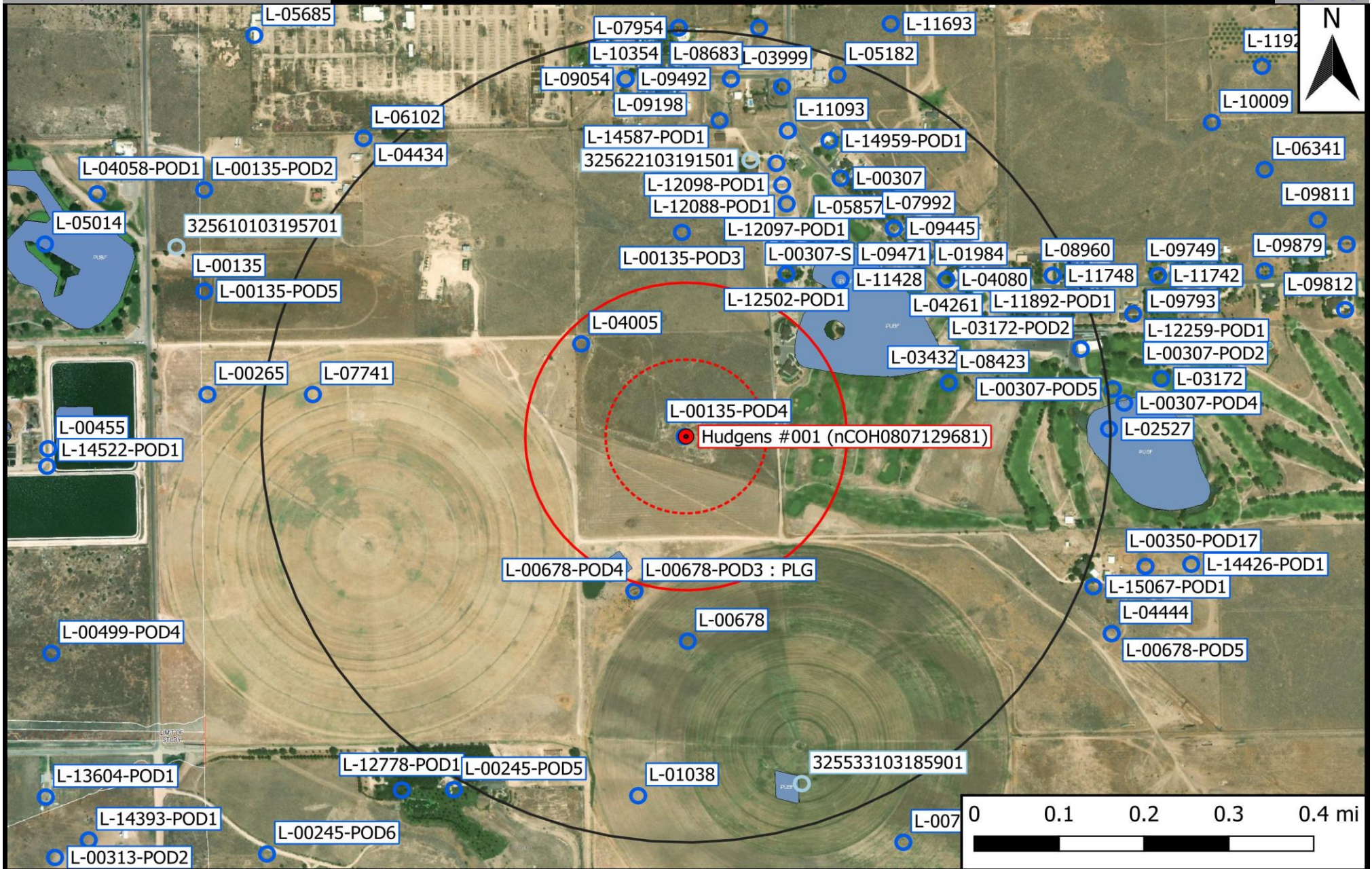
- Site Location

**Figure 1**  
 Topographic Map  
 Chevron USA  
 Hudgens #001 (nCOH0807129681)  
 GPS: 32.93494, -103.323007  
 Lea County

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

Drafted: mag    Checked: be    Date: 8/8/22





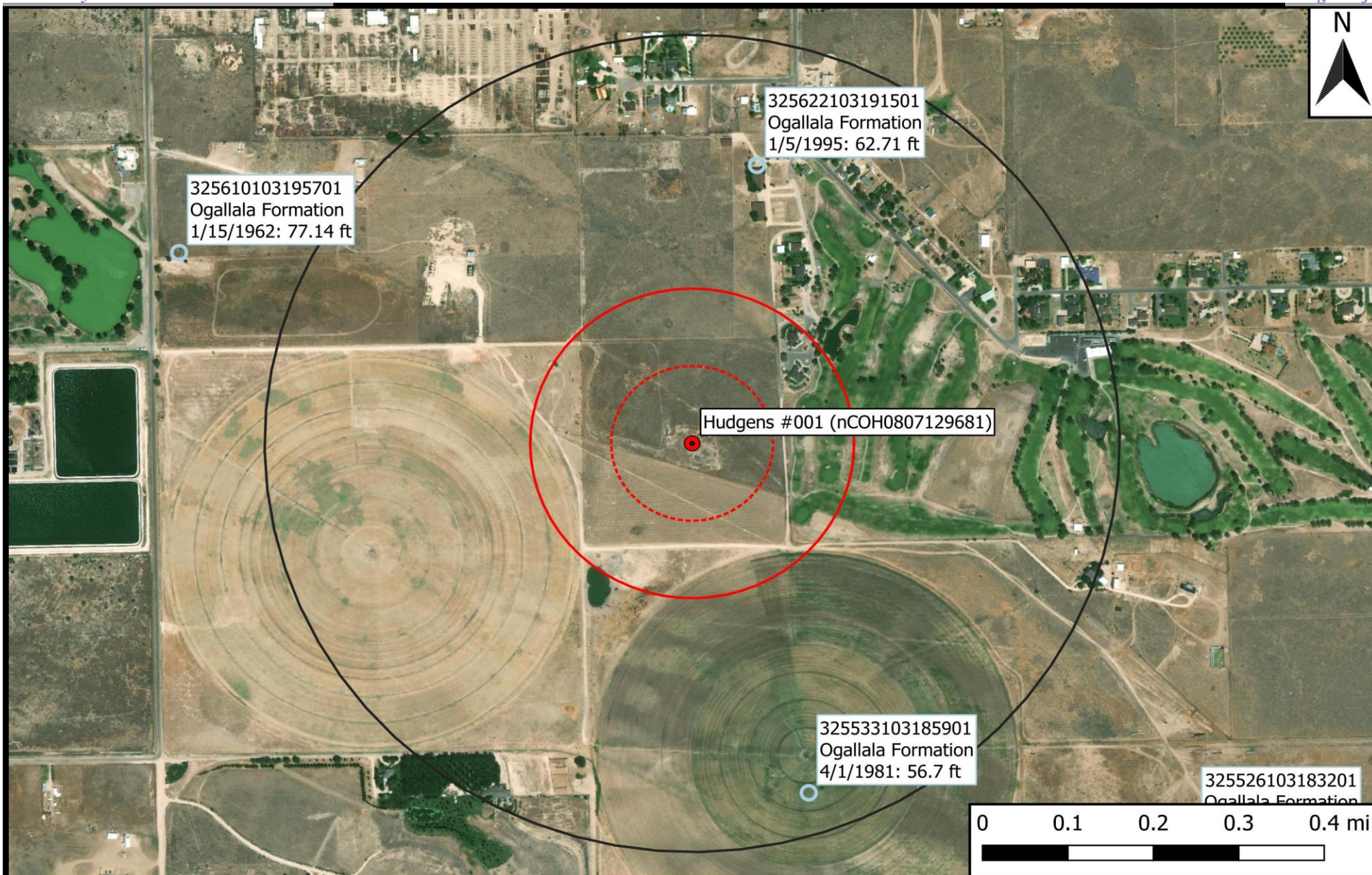
Legend	
<span style="color: red;">●</span>	Site Location
<span style="color: blue;">○</span>	Well - NMOSE
<span style="color: lightblue;">○</span>	Well - USGS
<span style="color: orange;">—</span>	Potash Mine Workings
<span style="color: pink;">■</span>	Medium/High Karst
<span style="color: red; border: 1px dashed red;">○</span>	500 Ft Radius
<span style="color: red; border: 1px solid red;">○</span>	1000 Ft Radius
<span style="border: 1px solid black;">○</span>	0.5 Mi Radius
<span style="background-color: lightblue;">■</span>	1% Annual Flood Chance
<span style="background-color: blue;">■</span>	Lake/Freshwater Pond
<span style="background-color: green;">■</span>	Emergent/Forested Wetlands
<span style="background-color: cyan;">■</span>	Riverine

**Figure 2**  
 Aerial Proximity Map  
 Chevron USA  
 Hudgens #001 (nCOH0807129681)  
 GPS: 32.93494, -103.323007  
 Lea County

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Legend	
<span style="color: red;">●</span>	Site Location
<span style="color: blue;">○</span>	Well - USGS
<span style="border: 1px dashed red; border-radius: 50%; width: 20px; height: 20px; display: inline-block;"></span>	500 Ft Radius
<span style="border: 1px solid red; border-radius: 50%; width: 20px; height: 20px; display: inline-block;"></span>	1000 Ft Radius
<span style="border: 1px solid black; border-radius: 50%; width: 20px; height: 20px; display: inline-block;"></span>	0.5 Mi Radius

**Figure 3**  
 USGS Well Proximity Map  
 Chevron USA  
 Hudgens #001 (nCOH0807129681)  
 GPS: 32.93494, -103.323007  
 Lea County

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Imagery Date: 2012  
Site has been  
Reclaimed

Auger Hole 1

Auger Hole 2



## **TABLES**



**TABLE 1**  
**CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL - DELINEATION**  
**CHEVRON USA**  
**HUDGENS #001**  
**LEA COUNTY, NEW MEXICO**  
*All concentrations are reported in mg/Kg*

SAMPLE LOCATION	DEPTH	SAMPLE DATE	METHODS: SW 846-8021B						METHOD: SW 8015M					E 300.0 CHLORIDE		
			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 DRO & GRO C <sub>6</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>	
NMOCD RRAL			10 mg/Kg							50 mg/Kg				100 mg/Kg	600 mg/Kg	
AH-1	0-6"	1/5/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>7,400</b>
AH-1	6-12"	1/5/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>5,670</b>
AH-2	0-6"	1/5/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>6,350</b>
AH-2	6-12"	1/5/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>3,510</b>

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

ND - Analyte Not Detected at or above the laboratory reporting limit

\*\* - Sample area was eliminated during further excavation activities.

## **APPENDICES**

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



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

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

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

Incident ID	NCOH0807129681
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: Chevron USA	OGRID: 4323
Contact Name: Amy Barnhill	Contact Telephone: 432-687-7108
Contact email: ABarnhill@chevron.com	Incident # (assigned by OCD)
Contact mailing address: 6301 Deauville Blvd Midland, Tx 79706	

### Location of Release Source

Latitude 32.9349823 \_\_\_\_\_ Longitude -103.3231506 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Hudgens 001	Site Type: Oil
Date Release Discovered: 2-4-2008	API# (if applicable)

Unit Letter	Section	Township	Range	County
J	11	16S	36E	Lea

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

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 5	Volume Recovered (bbls) 2
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Historical Spill no details


State of New Mexico  
Oil Conservation Division

Incident ID	NCOH0807129681
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

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

<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 checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" 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:
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: Amy Barnhill _____ Title: Water Advisor _____ Signature:  _____ Date: 9-12-22 _____ email: ABarnhill@chevron.com _____ Telephone: 432-687-7108 _____
<b><u>OCD Only</u></b>  Received by: _____ Date: _____

State of New Mexico  
Oil Conservation Division

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Incident ID	NCOH0807129681
District RP	
Facility ID	
Application ID	

**Spill Calculations:**



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 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.

State of New Mexico  
Oil Conservation Division

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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: *Amy Bille* Date: 9-12-22

email: \_\_\_\_\_ Telephone: 432-687-7108

**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.

Deferral Denied

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: Amy Bille Date: 9-12-22

email: \_\_\_\_\_ Telephone: 432-687-7108

**OCD Only**

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

- Approved     
 Approved with Attached Conditions of Approval     
 Denied     
 Deferral Approved

Signature: Bethany Hall Date: 12/8/2022

**Appendix B – Photographic Documentation**

**Project Name:** Hudgens #001  
**Project No:** 15313

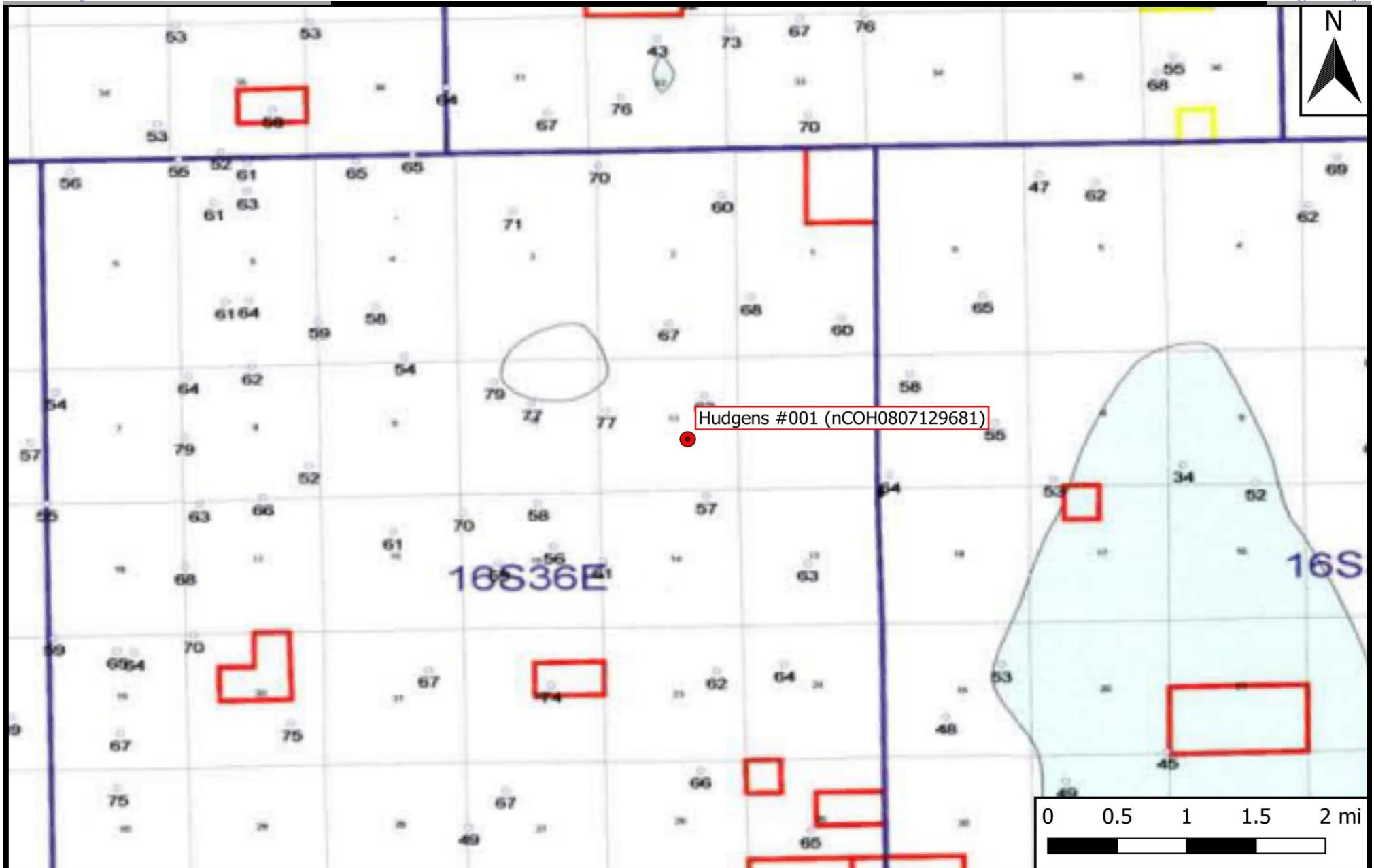
**Photographic Documentation**

<b>Photo No:</b> <b>1.</b>	
<b>Direction Taken:</b>  West	
<b>Description:</b>  View during assessment and delineation event.	

<b>Photo No:</b> <b>2.</b>	
<b>Direction Taken:</b>  Northeast	
<b>Description:</b>  View during assessment and delineation event.	

**Appendix C – Depth to Groundwater Information**





Legend

- Site Location

**Figure 5**  
 Inferred Depth to Groundwater Trend Map  
 Chevron USA  
 Hudgens #001 (nCOH0807129681)  
 GPS: 32.93494, -103.323007  
 Lea County

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

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# 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	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">L_00135 POD4</a>	L	LE		1	4	11	16S	36E		656779	3645322*	2	149	75	74
<a href="#">L_04005</a>	L	LE				11	16S	36E		656583	3645505*	270	95	75	20
<a href="#">L_00678 POD3</a>	R	L	LE	1	3	4	11	16S	36E	656684	3645017*	320	146	67	79
<a href="#">L_00678 POD4</a>	R	L	LE	1	3	4	11	16S	36E	656684	3645017*	320	212	160	52
<a href="#">L_12502 POD1</a>	L	LE		3	4	2	11	16S	36E	656972	3645642	373	195		
<a href="#">L_00135 POD3</a>	L	LE		3	2	11	16S	36E		656774	3645725*	402	125	78	47
<a href="#">L_00678</a>	R	L	LE	3	4	11	16S	36E		656785	3644918*	404	95		
<a href="#">L_00307 S</a>	L	LE		3	4	2	11	16S	36E	657075	3645632*	426	205		
<a href="#">L_11428</a>	L	LE		3	4	2	11	16S	36E	657075	3645632*	426	156		
<a href="#">L_12097 POD1</a>	L	LE		1	4	2	11	16S	36E	656973	3645781	497	170		
<a href="#">L_03432</a>	L	LE		2	2	4	11	16S	36E	657280	3645428*	509	110	68	42
<a href="#">L_08423</a>	L	LE		2	2	4	11	16S	36E	657280	3645428*	509	120	72	48
<a href="#">L_12088 POD1</a>	L	LE		1	4	2	11	16S	36E	656964	3645818	528	205		
<a href="#">L_12098 POD1</a>	L	LE		2	3	2	11	16S	36E	656953	3645861	565	170		
<a href="#">L_05717</a>	L	LE		4	2	11	16S	36E		657176	3645733*	569	110	67	43
<a href="#">L_05857</a>	L	LE		4	2	11	16S	36E		657176	3645733*	569	100	65	35
<a href="#">L_07992</a>	L	LE		4	2	11	16S	36E		657176	3645733*	569			
<a href="#">L_09445</a>	L	LE		4	2	11	16S	36E		657176	3645733*	569	110		
<a href="#">L_09471</a>	L	LE		4	2	11	16S	36E		657176	3645733*	569	110	72	38
<a href="#">L_01984</a>	L	LE		4	4	2	11	16S	36E	657275	3645632*	582	95	55	40
<a href="#">L_04080</a>	L	LE		4	4	2	11	16S	36E	657275	3645632*	582	103	75	28
<a href="#">L_04261</a>	L	LE		4	4	2	11	16S	36E	657275	3645632*	582	110	94	16
<a href="#">L_00307</a>	L	LE		1	4	2	11	16S	36E	657075	3645832*	588	100	50	50
<a href="#">L_14587 POD1</a>	L	LE		4	1	2	11	16S	36E	656845	3645945	627	165	85	80
<a href="#">L_05922</a>	L	LE			2	11	16S	36E		656975	3645926*	634	105	70	35
<a href="#">L_09389</a>	L	LE			2	11	16S	36E		656975	3645926*	634	110		
<a href="#">L_11093</a>	L	LE			2	11	16S	36E		656975	3645926*	634	120	70	50
<a href="#">L_14959 POD1</a>	L	LE		1	4	2	11	16S	36E	657054	3645906	644	217	115	102
<a href="#">L_03999</a>	L	LE		4	1	2	11	16S	36E	656867	3646028*	711	95	65	30
<a href="#">L_08682</a>	L	LE		4	1	2	11	16S	36E	656867	3646028*	711	124	70	54
<a href="#">L_08683</a>	L	LE		4	1	2	11	16S	36E	656867	3646028*	711	123	70	53
<a href="#">L_07741</a>	L	LE		2	1	3	11	16S	36E	656074	3645405*	712	142	78	64
<a href="#">L_12093 POD1</a>	L	LE		4	2	2	11	16S	36E	656964	3646012	713	170		

<a href="#">L_01038</a>		L	LE	1	1	2	14	16S	36E	656691	3644613*		714	90	60	30
<a href="#">L_09053</a>	R	L	LE	3	1	2	11	16S	36E	656667	3646028*		715	175	95	80
<a href="#">L_09054</a>	R	L	LE	3	1	2	11	16S	36E	656667	3646028*		715	135	65	70
<a href="#">L_09054 POD2</a>		L	LE	3	1	2	11	16S	36E	656667	3646028*		715	135	65	70
<a href="#">L_09195</a>		L	LE	3	1	2	11	16S	36E	656667	3646028*		715	135	90	45
<a href="#">L_09198</a>		L	LE	3	1	2	11	16S	36E	656667	3646028*		715	135	90	45
<a href="#">L_09330</a>		L	LE	3	1	2	11	16S	36E	656667	3646028*		715	140	70	70
<a href="#">L_09331</a>		L	LE	3	1	2	11	16S	36E	656667	3646028*		715	140	90	50
<a href="#">L_09340</a>		L	LE	3	1	2	11	16S	36E	656667	3646028*		715	150	90	60
<a href="#">L_09492</a>	R	L	LE	3	1	2	11	16S	36E	656667	3646028*		715	135	65	70
<a href="#">L_10354</a>		L	LE	3	1	2	11	16S	36E	656667	3646028*		715	120	63	57
<a href="#">L_08960</a>		L	LE	3	3	1	12	16S	36E	657477	3645640*		764	112	72	40
<a href="#">L_11748</a>		L	LE	3	3	1	12	16S	36E	657477	3645640*		764	143	73	70
<a href="#">L_11892 POD1</a>		L	LE	3	3	1	12	16S	36E	657477	3645640*		764	130	70	60
<a href="#">L_03172 POD2</a>		L	LE	2	1	3	12	16S	36E	657530	3645494		768	210		
<a href="#">L_05182</a>		L	LE	3	2	2	11	16S	36E	657069	3646036*		769	110	75	35
<a href="#">L_02527</a>		L	LE		1	3	12	16S	36E	657584	3645337*		802	110	55	55

Average Depth to Water: **75 feet**  
 Minimum Depth: **50 feet**  
 Maximum Depth: **160 feet**

Record Count: 50

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

**Easting (X):** 656781.8

**Northing (Y):** 3645322

**Radius:** 804.67

\*UTM location was derived from PLSS - see Help

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

8/8/22 10:12 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# 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)	
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4</b>	<b>Sec Tws Rng</b>	<b>X Y</b>
L 00135	POD4	1 4 11	16S 36E	656779 3645322*

<b>Driller License:</b> 421	<b>Driller Company:</b> GLENN'S WATER WELL SERVICE	
<b>Driller Name:</b>		
<b>Drill Start Date:</b> 09/14/1970	<b>Drill Finish Date:</b> 09/16/1970	<b>Plug Date:</b>
<b>Log File Date:</b> 10/30/1970	<b>PCW Rev Date:</b> 01/13/1971	<b>Source:</b> Shallow
<b>Pump Type:</b> TURBIN	<b>Pipe Discharge Size:</b> 4	<b>Estimated Yield:</b> 500 GPM
<b>Casing Size:</b>	<b>Depth Well:</b> 149 feet	<b>Depth Water:</b> 75 feet

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	75	149	Sandstone/Gravel/Conglomerate

\*UTM location was derived from PLSS - see Help

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8/8/22 9:31 AM

POINT OF DIVERSION SUMMARY



# 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)		
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
L 00678	POD3	1	3	4	11	16S	36E	656684	3645017*

<b>Driller License:</b> 183	<b>Driller Company:</b> CAYTON WATER WELL DRILLING CO	
<b>Driller Name:</b> JACK CAYTON		
<b>Drill Start Date:</b> 01/01/1957	<b>Drill Finish Date:</b> 01/31/1957	<b>Plug Date:</b> 03/25/1957
<b>Log File Date:</b> 05/02/1957	<b>PCW Rev Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>
<b>Casing Size:</b> 16.00	<b>Depth Well:</b> 146 feet	<b>Depth Water:</b> 67 feet

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	67	72	Sandstone/Gravel/Conglomerate

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>	
	65	146	

\*UTM location was derived from PLSS - see Help

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

8/8/22 9:31 AM

POINT OF DIVERSION SUMMARY



# 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)	
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tw</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
L 00678	POD4	1	3	4	11	16S	36E	656684	3645017*

<b>Driller License:</b> 281	<b>Driller Company:</b> PRUETT, OTIS H.	
<b>Driller Name:</b> OTIS H. PRUETT		
<b>Drill Start Date:</b> 05/16/1960	<b>Drill Finish Date:</b> 05/25/1960	<b>Plug Date:</b>
<b>Log File Date:</b> 10/25/1960	<b>PCW Rcv Date:</b> 10/28/1960	<b>Source:</b> Shallow
<b>Pump Type:</b> TURBIN	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 800 GPM
<b>Casing Size:</b> 14.00	<b>Depth Well:</b> 212 feet	<b>Depth Water:</b> 160 feet

Water Bearing Stratifications:	Top	Bottom	Description
	74	80	Other/Unknown
	148	202	Other/Unknown

Casing Perforations:	Top	Bottom
	128	212

\*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY





# 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)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
L	04005		11	16S	36E	656583	3645505*

<b>Driller License:</b> 33		<b>Driller Company:</b> TATUM CLAUDE E.	
<b>Driller Name:</b>			
<b>Drill Start Date:</b> 09/20/1958	<b>Drill Finish Date:</b> 09/20/1958	<b>Plug Date:</b>	
<b>Log File Date:</b> 10/27/1958	<b>PCW Rev Date:</b>	<b>Source:</b> Shallow	
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>	
<b>Casing Size:</b>	<b>Depth Well:</b> 95 feet	<b>Depth Water:</b> 75 feet	

Water Bearing Stratifications:	Top	Bottom	Description
	75	95	Sandstone/Gravel/Conglomerate

\*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



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## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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[Groundwater levels for the Nation](#)

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### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 325533103185901

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 325533103185901 16S.36E.14.22113

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 12080003

Latitude 32°55'43", Longitude 103°19'13" NAD27

Land-surface elevation 3,872.00 feet above NGVD29

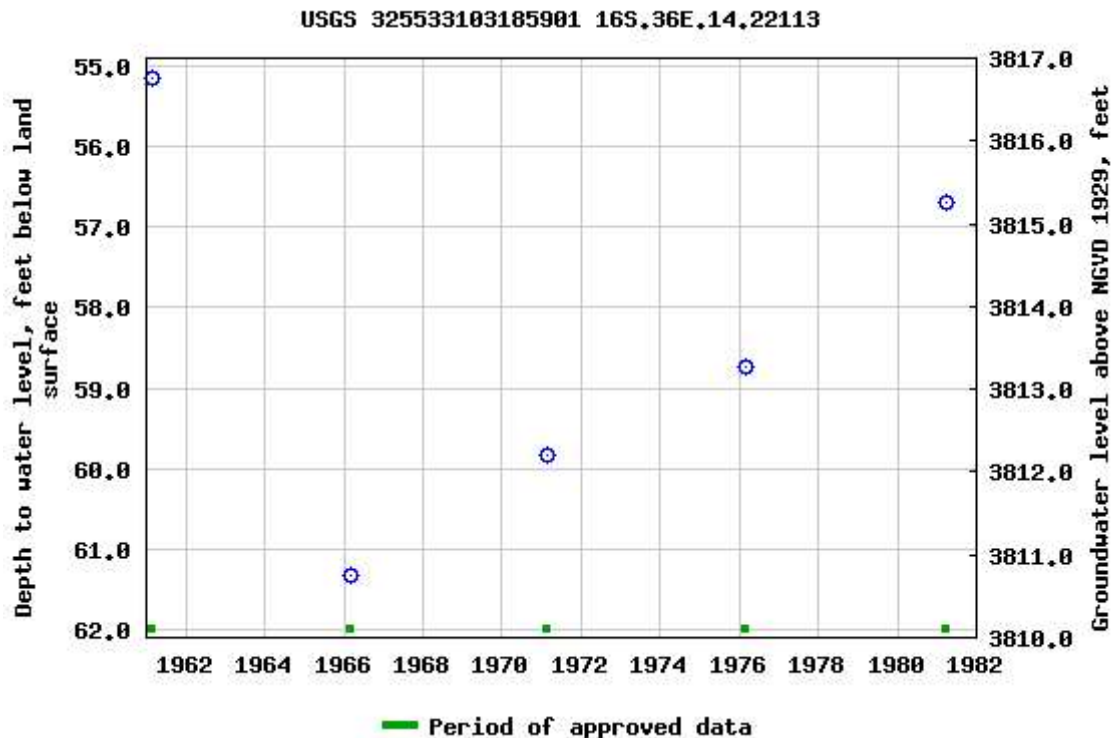
The depth of the well is 84 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>



Breaks in the plot represent a gap of at least one year between field measurements.  
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**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**



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0.58 0.51 nadww01



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## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

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### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 325622103191501

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 325622103191501 16S.36E.11.241131

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 12080003

Latitude 32°56'23", Longitude 103°19'16" NAD27

Land-surface elevation 3,886.00 feet above NGVD29

The depth of the well is 100 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

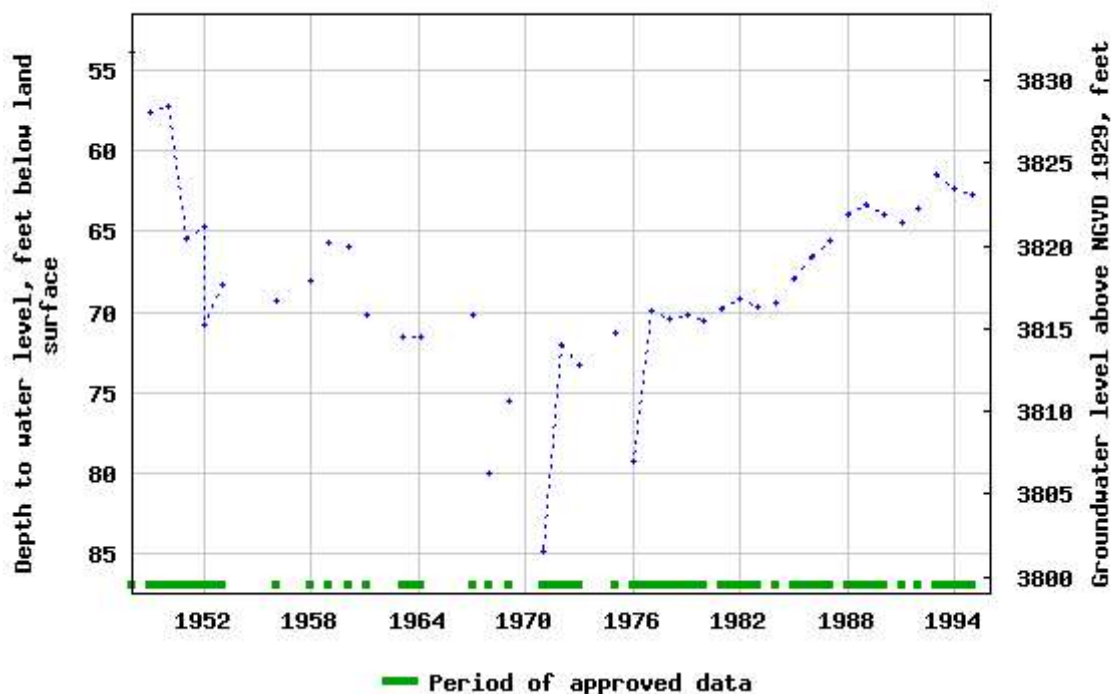
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>



USGS 325622103191501 16S,36E,11,241131



Breaks in the plot represent a gap of at least one year between field measurements.  
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**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**



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0.58 0.51 nadww01

**Appendix D – Analytical Reports**



Environment Testing  
America

## ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-9962-1  
Client Project/Site: Hudgens #001 (9681)

For:  
Etech Environmental & Safety Solutions  
PO BOX 62228  
Midland, Texas 79711

Attn: Brandon Wilson

Authorized for release by:  
1/13/2022 8:23:52 AM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)



### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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Client: Etech Environmental & Safety Solutions  
Project/Site: Hudgens #001 (9681)

Laboratory Job ID: 880-9962-1

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## Definitions/Glossary

Client: Etech Environmental & Safety Solutions  
Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

### Case Narrative

Client: Etech Environmental & Safety Solutions  
Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

**Job ID: 880-9962-1**

**Laboratory: Eurofins Midland**

**Narrative**

**Job Narrative  
880-9962-1**

**Receipt**

The samples were received on 1/7/2022 1:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

**GC VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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## Client Sample Results

Client: Etech Environmental & Safety Solutions  
Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

## Client Sample ID: Auger Hole 1

Lab Sample ID: 880-9962-1

Date Collected: 01/05/22 16:08

Matrix: Solid

Date Received: 01/07/22 13:05

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/07/22 14:31	01/11/22 00:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/07/22 14:31	01/11/22 00:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/07/22 14:31	01/11/22 00:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/07/22 14:31	01/11/22 00:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/07/22 14:31	01/11/22 00:44	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/07/22 14:31	01/11/22 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	01/07/22 14:31	01/11/22 00:44	1
1,4-Difluorobenzene (Surr)	93		70 - 130	01/07/22 14:31	01/11/22 00:44	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/11/22 12:59	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/11/22 14:19	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 17:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 17:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	01/07/22 14:36	01/08/22 17:52	1
o-Terphenyl	91		70 - 130	01/07/22 14:36	01/08/22 17:52	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7400		49.9		mg/Kg			01/12/22 14:58	10

## Client Sample ID: Auger Hole 1

Lab Sample ID: 880-9962-2

Date Collected: 01/05/22 16:10

Matrix: Solid

Date Received: 01/07/22 13:05

Sample Depth: 6-12"

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/07/22 14:31	01/11/22 01:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/07/22 14:31	01/11/22 01:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/07/22 14:31	01/11/22 01:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/07/22 14:31	01/11/22 01:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/07/22 14:31	01/11/22 01:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/07/22 14:31	01/11/22 01:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	01/07/22 14:31	01/11/22 01:04	1

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## Client Sample Results

Client: Etech Environmental & Safety Solutions  
Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

## Client Sample ID: Auger Hole 1

Lab Sample ID: 880-9962-2

Date Collected: 01/05/22 16:10

Matrix: Solid

Date Received: 01/07/22 13:05

Sample Depth: 6-12"

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	84		70 - 130	01/07/22 14:31	01/11/22 01:04	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/11/22 12:59	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/11/22 14:19	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/22 14:36	01/08/22 18:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/22 14:36	01/08/22 18:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/22 14:36	01/08/22 18:12	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	80		70 - 130	01/07/22 14:36	01/08/22 18:12	1			
o-Terphenyl	91		70 - 130	01/07/22 14:36	01/08/22 18:12	1			

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5670		50.0		mg/Kg			01/12/22 15:08	10

## Client Sample ID: Auger Hole 2

Lab Sample ID: 880-9962-3

Date Collected: 01/05/22 16:12

Matrix: Solid

Date Received: 01/07/22 13:05

Sample Depth: 0-6"

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:31	01/11/22 02:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:31	01/11/22 02:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:31	01/11/22 02:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/07/22 14:31	01/11/22 02:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:31	01/11/22 02:26	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/07/22 14:31	01/11/22 02:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	01/07/22 14:31	01/11/22 02:26	1
1,4-Difluorobenzene (Surr)	107		70 - 130	01/07/22 14:31	01/11/22 02:26	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/11/22 12:59	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/11/22 14:19	1

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## Client Sample Results

Client: Etech Environmental & Safety Solutions  
Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

## Client Sample ID: Auger Hole 2

Lab Sample ID: 880-9962-3

Date Collected: 01/05/22 16:12

Matrix: Solid

Date Received: 01/07/22 13:05

Sample Depth: 0-6"

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/07/22 14:36	01/08/22 18:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/07/22 14:36	01/08/22 18:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/07/22 14:36	01/08/22 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				01/07/22 14:36	01/08/22 18:53	1
o-Terphenyl	91		70 - 130				01/07/22 14:36	01/08/22 18:53	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6350		49.7		mg/Kg			01/12/22 15:18	10

## Client Sample ID: Auger Hole 2

Lab Sample ID: 880-9962-4

Date Collected: 01/05/22 16:14

Matrix: Solid

Date Received: 01/07/22 13:05

Sample Depth: 6-12"

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/07/22 14:31	01/11/22 02:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/07/22 14:31	01/11/22 02:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/07/22 14:31	01/11/22 02:46	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/07/22 14:31	01/11/22 02:46	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/07/22 14:31	01/11/22 02:46	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/07/22 14:31	01/11/22 02:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				01/07/22 14:31	01/11/22 02:46	1
1,4-Difluorobenzene (Surr)	111		70 - 130				01/07/22 14:31	01/11/22 02:46	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/11/22 12:59	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/11/22 14:19	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 19:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 19:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				01/07/22 14:36	01/08/22 19:13	1
o-Terphenyl	105		70 - 130				01/07/22 14:36	01/08/22 19:13	1

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### Client Sample Results

Client: Etech Environmental & Safety Solutions  
Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

**Client Sample ID: Auger Hole 2**

**Lab Sample ID: 880-9962-4**

Date Collected: 01/05/22 16:14

Matrix: Solid

Date Received: 01/07/22 13:05

Sample Depth: 6-12"

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3510		24.8		mg/Kg			01/12/22 15:28	5

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Surrogate Summary

Client: Etech Environmental & Safety Solutions  
Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-9960-A-1-A MS	Matrix Spike	108	108
880-9960-A-1-B MSD	Matrix Spike Duplicate	103	99
880-9962-1	Auger Hole 1	131 S1+	93
880-9962-2	Auger Hole 1	123	84
880-9962-3	Auger Hole 2	138 S1+	107
880-9962-4	Auger Hole 2	139 S1+	111
LCS 880-16279/1-A	Lab Control Sample	101	99
LCSD 880-16279/2-A	Lab Control Sample Dup	105	95
MB 880-16220/5-A	Method Blank	98	106
MB 880-16279/5-A	Method Blank	108	97

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-9942-A-1-C MS	Matrix Spike	77	76
880-9942-A-1-D MSD	Matrix Spike Duplicate	85	85
880-9962-1	Auger Hole 1	80	91
880-9962-2	Auger Hole 1	80	91
880-9962-3	Auger Hole 2	78	91
880-9962-4	Auger Hole 2	90	105
LCS 880-16281/2-A	Lab Control Sample	103	106
LCSD 880-16281/3-A	Lab Control Sample Dup	108	112
MB 880-16281/1-A	Method Blank	82	98

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

### QC Sample Results

Client: Etech Environmental & Safety Solutions  
 Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

#### Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-16220/5-A  
 Matrix: Solid  
 Analysis Batch: 16342

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 16220

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 09:17	01/10/22 10:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 09:17	01/10/22 10:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 09:17	01/10/22 10:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/22 09:17	01/10/22 10:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 09:17	01/10/22 10:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/22 09:17	01/10/22 10:46	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	98		70 - 130				01/07/22 09:17	01/10/22 10:46	1
1,4-Difluorobenzene (Surr)	106		70 - 130				01/07/22 09:17	01/10/22 10:46	1

Lab Sample ID: MB 880-16279/5-A  
 Matrix: Solid  
 Analysis Batch: 16342

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 16279

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:31	01/10/22 21:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:31	01/10/22 21:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:31	01/10/22 21:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/07/22 14:31	01/10/22 21:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/07/22 14:31	01/10/22 21:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/07/22 14:31	01/10/22 21:39	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	108		70 - 130				01/07/22 14:31	01/10/22 21:39	1
1,4-Difluorobenzene (Surr)	97		70 - 130				01/07/22 14:31	01/10/22 21:39	1

Lab Sample ID: LCS 880-16279/1-A  
 Matrix: Solid  
 Analysis Batch: 16342

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 16279

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.100	0.08627		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08328		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1716		mg/Kg		86	70 - 130
o-Xylene	0.100	0.08407		mg/Kg		84	70 - 130
Surrogate	LCS	LCS	Limits				%Rec. Limits
	%Recovery	Qualifier					
4-Bromofluorobenzene (Surr)	101		70 - 130				
1,4-Difluorobenzene (Surr)	99		70 - 130				

Lab Sample ID: LCSD 880-16279/2-A  
 Matrix: Solid  
 Analysis Batch: 16342

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 16279

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Benzene	0.100	0.09219		mg/Kg		92	70 - 130	0	35

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### QC Sample Results

Client: Etech Environmental & Safety Solutions  
 Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

#### Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-16279/2-A

Matrix: Solid

Analysis Batch: 16342

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16279

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Toluene	0.100	0.08649		mg/Kg		86	70 - 130	0	35	
Ethylbenzene	0.100	0.08511		mg/Kg		85	70 - 130	2	35	
m-Xylene & p-Xylene	0.200	0.1746		mg/Kg		87	70 - 130	2	35	
o-Xylene	0.100	0.08698		mg/Kg		87	70 - 130	3	35	
		<b>LCSD</b>	<b>LCSD</b>							
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>							
4-Bromofluorobenzene (Surr)	105		70 - 130							
1,4-Difluorobenzene (Surr)	95		70 - 130							

Lab Sample ID: 880-9960-A-1-A MS

Matrix: Solid

Analysis Batch: 16342

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 16279

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
									Limits	RPD		
Benzene	<0.00198	U F1	0.100	0.06756	F1	mg/Kg		68	70 - 130			
Toluene	<0.00198	U F1	0.100	0.05938	F1	mg/Kg		59	70 - 130			
Ethylbenzene	<0.00198	U F1	0.100	0.05428	F1	mg/Kg		54	70 - 130			
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.1102	F1	mg/Kg		55	70 - 130			
o-Xylene	<0.00198	U F1	0.100	0.05533	F1	mg/Kg		55	70 - 130			
		<b>MS</b>	<b>MS</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>									
4-Bromofluorobenzene (Surr)	108		70 - 130									
1,4-Difluorobenzene (Surr)	108		70 - 130									

Lab Sample ID: 880-9960-A-1-B MSD

Matrix: Solid

Analysis Batch: 16342

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 16279

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
									Limits	RPD		
Benzene	<0.00198	U F1	0.0998	0.07272		mg/Kg		73	70 - 130	7	35	
Toluene	<0.00198	U F1	0.0998	0.06335	F1	mg/Kg		63	70 - 130	6	35	
Ethylbenzene	<0.00198	U F1	0.0998	0.05857	F1	mg/Kg		58	70 - 130	8	35	
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.1183	F1	mg/Kg		59	70 - 130	7	35	
o-Xylene	<0.00198	U F1	0.0998	0.05836	F1	mg/Kg		58	70 - 130	5	35	
		<b>MSD</b>	<b>MSD</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>									
4-Bromofluorobenzene (Surr)	103		70 - 130									
1,4-Difluorobenzene (Surr)	99		70 - 130									

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-16281/1-A

Matrix: Solid

Analysis Batch: 16324

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16281

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 13:27	1

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### QC Sample Results

Client: Etech Environmental & Safety Solutions  
 Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: MB 880-16281/1-A**  
**Matrix: Solid**  
**Analysis Batch: 16324**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 16281**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 13:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/07/22 14:36	01/08/22 13:27	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	82		70 - 130	01/07/22 14:36	01/08/22 13:27	1
o-Terphenyl	98		70 - 130	01/07/22 14:36	01/08/22 13:27	1

**Lab Sample ID: LCS 880-16281/2-A**  
**Matrix: Solid**  
**Analysis Batch: 16324**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 16281**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (Over C10-C28)	1000	1073		mg/Kg		107	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	103		70 - 130
o-Terphenyl	106		70 - 130

**Lab Sample ID: LCSD 880-16281/3-A**  
**Matrix: Solid**  
**Analysis Batch: 16324**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 16281**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	876.3		mg/Kg		88	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	1179		mg/Kg		118	70 - 130	9	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1-Chlorooctane	108		70 - 130
o-Terphenyl	112		70 - 130

**Lab Sample ID: 880-9942-A-1-C MS**  
**Matrix: Solid**  
**Analysis Batch: 16324**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 16281**

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	843.3		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1076		mg/Kg		105	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1-Chlorooctane	77		70 - 130
o-Terphenyl	76		70 - 130

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### QC Sample Results

Client: Etech Environmental & Safety Solutions  
 Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-9942-A-1-D MSD  
 Matrix: Solid  
 Analysis Batch: 16324

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Total/NA  
 Prep Batch: 16281

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	966.2		mg/Kg		95	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1231		mg/Kg		121	70 - 130	13	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>									
1-Chlorooctane	85								70 - 130		
o-Terphenyl	85								70 - 130		

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16437/1-A  
 Matrix: Solid  
 Analysis Batch: 16545

Client Sample ID: Method Blank  
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/12/22 10:42	1

Lab Sample ID: LCS 880-16437/2-A  
 Matrix: Solid  
 Analysis Batch: 16545

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	257.9		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-16437/3-A  
 Matrix: Solid  
 Analysis Batch: 16545

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	260.2		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 880-9960-A-4-D MS  
 Matrix: Solid  
 Analysis Batch: 16545

Client Sample ID: Matrix Spike  
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	15.0		250	290.0		mg/Kg		110	90 - 110

Lab Sample ID: 880-9960-A-4-E MSD  
 Matrix: Solid  
 Analysis Batch: 16545

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	15.0		250	286.0		mg/Kg		108	90 - 110	1	20

## QC Association Summary

Client: Etech Environmental & Safety Solutions  
Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

## GC VOA

## Prep Batch: 16220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-16220/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 16279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9962-1	Auger Hole 1	Total/NA	Solid	5035	
880-9962-2	Auger Hole 1	Total/NA	Solid	5035	
880-9962-3	Auger Hole 2	Total/NA	Solid	5035	
880-9962-4	Auger Hole 2	Total/NA	Solid	5035	
MB 880-16279/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16279/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16279/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9960-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-9960-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 16342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9962-1	Auger Hole 1	Total/NA	Solid	8021B	16279
880-9962-2	Auger Hole 1	Total/NA	Solid	8021B	16279
880-9962-3	Auger Hole 2	Total/NA	Solid	8021B	16279
880-9962-4	Auger Hole 2	Total/NA	Solid	8021B	16279
MB 880-16220/5-A	Method Blank	Total/NA	Solid	8021B	16220
MB 880-16279/5-A	Method Blank	Total/NA	Solid	8021B	16279
LCS 880-16279/1-A	Lab Control Sample	Total/NA	Solid	8021B	16279
LCSD 880-16279/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16279
880-9960-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	16279
880-9960-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	16279

## Analysis Batch: 16518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9962-1	Auger Hole 1	Total/NA	Solid	Total BTEX	
880-9962-2	Auger Hole 1	Total/NA	Solid	Total BTEX	
880-9962-3	Auger Hole 2	Total/NA	Solid	Total BTEX	
880-9962-4	Auger Hole 2	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 16281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9962-1	Auger Hole 1	Total/NA	Solid	8015NM Prep	
880-9962-2	Auger Hole 1	Total/NA	Solid	8015NM Prep	
880-9962-3	Auger Hole 2	Total/NA	Solid	8015NM Prep	
880-9962-4	Auger Hole 2	Total/NA	Solid	8015NM Prep	
MB 880-16281/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16281/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16281/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9942-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-9942-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 16324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9962-1	Auger Hole 1	Total/NA	Solid	8015B NM	16281

Eurofins Midland

## QC Association Summary

Client: Etech Environmental & Safety Solutions  
 Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

## GC Semi VOA (Continued)

## Analysis Batch: 16324 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9962-2	Auger Hole 1	Total/NA	Solid	8015B NM	16281
880-9962-3	Auger Hole 2	Total/NA	Solid	8015B NM	16281
880-9962-4	Auger Hole 2	Total/NA	Solid	8015B NM	16281
MB 880-16281/1-A	Method Blank	Total/NA	Solid	8015B NM	16281
LCS 880-16281/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16281
LCSD 880-16281/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16281
880-9942-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	16281
880-9942-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	16281

## Analysis Batch: 16554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9962-1	Auger Hole 1	Total/NA	Solid	8015 NM	
880-9962-2	Auger Hole 1	Total/NA	Solid	8015 NM	
880-9962-3	Auger Hole 2	Total/NA	Solid	8015 NM	
880-9962-4	Auger Hole 2	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 16437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9962-1	Auger Hole 1	Soluble	Solid	DI Leach	
880-9962-2	Auger Hole 1	Soluble	Solid	DI Leach	
880-9962-3	Auger Hole 2	Soluble	Solid	DI Leach	
880-9962-4	Auger Hole 2	Soluble	Solid	DI Leach	
MB 880-16437/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16437/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16437/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9960-A-4-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9960-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 16545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9962-1	Auger Hole 1	Soluble	Solid	300.0	16437
880-9962-2	Auger Hole 1	Soluble	Solid	300.0	16437
880-9962-3	Auger Hole 2	Soluble	Solid	300.0	16437
880-9962-4	Auger Hole 2	Soluble	Solid	300.0	16437
MB 880-16437/1-A	Method Blank	Soluble	Solid	300.0	16437
LCS 880-16437/2-A	Lab Control Sample	Soluble	Solid	300.0	16437
LCSD 880-16437/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16437
880-9960-A-4-D MS	Matrix Spike	Soluble	Solid	300.0	16437
880-9960-A-4-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	16437

Eurofins Midland

### Lab Chronicle

Client: Etech Environmental & Safety Solutions  
 Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

**Client Sample ID: Auger Hole 1**

**Lab Sample ID: 880-9962-1**

Date Collected: 01/05/22 16:08

Matrix: Solid

Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	16279	01/07/22 14:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16342	01/11/22 00:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16518	01/11/22 12:59	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16554	01/11/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16281	01/07/22 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16324	01/08/22 17:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16437	01/10/22 13:11	CH	XEN MID
Soluble	Analysis	300.0		10			16545	01/12/22 14:58	CH	XEN MID

**Client Sample ID: Auger Hole 1**

**Lab Sample ID: 880-9962-2**

Date Collected: 01/05/22 16:10

Matrix: Solid

Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	16279	01/07/22 14:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16342	01/11/22 01:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16518	01/11/22 12:59	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16554	01/11/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16281	01/07/22 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16324	01/08/22 18:12	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16437	01/10/22 13:11	CH	XEN MID
Soluble	Analysis	300.0		10			16545	01/12/22 15:08	CH	XEN MID

**Client Sample ID: Auger Hole 2**

**Lab Sample ID: 880-9962-3**

Date Collected: 01/05/22 16:12

Matrix: Solid

Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16279	01/07/22 14:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16342	01/11/22 02:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16518	01/11/22 12:59	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16554	01/11/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16281	01/07/22 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16324	01/08/22 18:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16437	01/10/22 13:11	CH	XEN MID
Soluble	Analysis	300.0		10			16545	01/12/22 15:18	CH	XEN MID

**Client Sample ID: Auger Hole 2**

**Lab Sample ID: 880-9962-4**

Date Collected: 01/05/22 16:14

Matrix: Solid

Date Received: 01/07/22 13:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	16279	01/07/22 14:31	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16342	01/11/22 02:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16518	01/11/22 12:59	AJ	XEN MID

Eurofins Midland

### Lab Chronicle

Client: Etech Environmental & Safety Solutions  
 Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

**Client Sample ID: Auger Hole 2**

**Lab Sample ID: 880-9962-4**

**Date Collected: 01/05/22 16:14**

**Matrix: Solid**

**Date Received: 01/07/22 13:05**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16554	01/11/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16281	01/07/22 14:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16324	01/08/22 19:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16437	01/10/22 13:11	CH	XEN MID
Soluble	Analysis	300.0		5			16545	01/12/22 15:28	CH	XEN MID

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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### Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions  
Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

#### Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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### Method Summary

Client: Etech Environmental & Safety Solutions  
 Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

**Protocol References:**

- ASTM = ASTM International
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

- XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



### Sample Summary

Client: Etech Environmental & Safety Solutions  
Project/Site: Hudgens #001 (9681)

Job ID: 880-9962-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-9962-1	Auger Hole 1	Solid	01/05/22 16:08	01/07/22 13:05	0-6"
880-9962-2	Auger Hole 1	Solid	01/05/22 16:10	01/07/22 13:05	6-12"
880-9962-3	Auger Hole 2	Solid	01/05/22 16:12	01/07/22 13:05	0-6"
880-9962-4	Auger Hole 2	Solid	01/05/22 16:14	01/07/22 13:05	6-12"

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# Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334  
 Midland TX (432-704-5440) EL Paso TX (915)585-3443 Lubbock TX (808)794-1296  
 Hobbs NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-620-2000)

Work Order No: 9962  
 www.xenco.com Page 1 of 1

1/13/2022

Project Manager	Brandon Wilson	Bill to (if different)	
Company Name	Etech Environmental	Company Name	
Address	13000 W CR 100	Address	
City, State ZIP	Odessa, Tx 79765	City, State ZIP	
Phone	432-563-2200	Email	brandon@etechenv.com, blake@etechenv.com

<b>Work Order Comments</b>	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables EDD	<input type="checkbox"/> ADaPT <input type="checkbox"/> Other

Project Name	Hudgens #001 (9681)		Turn Around	<b>ANALYSIS REQUEST</b>										Work Order Notes	
Project Number	15313		Routine											TAT starts the day received by the lab if received by 4 30pm	
P O Number	15313		Rush												
Sampler's Name	Blake Estep		Due Date												
<b>SAMPLE RECEIPT</b>															
Temp Blank		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wet Ice	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
Temperature (°C)	53/54		Thermometer ID												
Received Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Correction Factor		10										
Cooler Custody Seals	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A	Total Containers												
Sample Custody Seals	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A													
				Number of Containers	TPH	BETEX	Chlorides								Sample Comments
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth											
Auger Hole 1	S	1/5/2022	16 08	0-6"	1	X	X	X							
Auger Hole 1	S	1/5/2022	16 10	6-12"	1	X	X	X							
Auger Hole 2	S	1/5/2022	16 12	0-6"	1	X	X	X							
Auger Hole 2	S	1/5/2022	16 14	6-12"	1	X	X	X							



**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn  
 Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U **1631 / 245.1 / 7470 / 7471 Hg**

Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	1-22 13:05			

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### Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 880-9962-1

**Login Number: 9962**

**List Source: Eurofins Midland**

**List Number: 1**

**Creator: Rodriguez, Leticia**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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**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 142429

**CONDITIONS**

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 142429
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
bhall	The site remediation and closure must comply with 19.15.29.13 NMAC.	12/8/2022
bhall	Submit a complete report through the OCD Permitting website by 03/10/2023.	12/8/2022