

Incident ID	nAB1819053650
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?	<u>>48</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 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

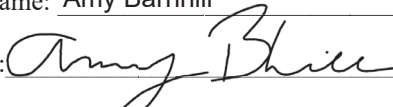
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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

Page 4

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

Printed Name: Amy Barnhill Title: Water Advisor
Signature:  Date: 10-24-22
email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

Received by: Jocelyn Harimon Date: 10/24/2022



September 6, 2022

Robert Hamlet
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
PH #: 575-748-1283
Robert.Hamlet@state.nm.us

Re: Soil Remediation Workplan
Chevron USA
Heritage CTB Release (nAB1819053650)
GPS: N 32.29905° W 104.07809°
Unit Letter "N", Section 15, Township 23 South, Range 28 East
Eddy County, New Mexico

Dear Mr. Hamlet,

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Chevron USA (Chevron), has prepared this *Soil Remediation Workplan* for the Heritage CTB Release (Release Site). The legal description of the Release Site is Unit Letter "N", Section 15, Township 23 South, Range 28 East, in Eddy County, New Mexico. The GPS coordinates for the site are N 32.29905° W 104.07809°. A Site Location Map and Aerial Proximity Map are provided as Figure 1 and Figure 2, respectively.

INTRODUCTION

On June 19, 2018, a reportable release occurred at the Release Site. The release was the result of a gasket failure on the heater treater. Approximately twenty (20) barrels (bbls) of crude oil was released with approximately sixteen (16) bbls of crude oil was recovered via vacuum trucks, for a net loss of four (4) bbls of crude oil. The initial Form C-141 is provided in Appendix A.

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 ten (10) water wells within a ½-mile radius. One (1) water well is located within one thousand (1,000) ft of the release, NMOSE Well # C-01872, with a depth to water of forty-eight (48) feet below ground surface (bgs). The average depth to water in a half mile radius is forty (40) feet bgs. In addition, the site is listed as being in a medium Karst Topography region. See Appendix B for maps, along with water well data, detailing the site relative to groundwater locations. Based on the NMOCD site classification system, the following soil remediation clean up levels were assigned to the Release Site:

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

INITIAL ASSESSMENT AND DELINEATION ACTIVITIES

On May 2, 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 spill area to depths ranging from six (6) inches bgs to thirty-six (36) inches bgs. Refusal was encountered in Auger Hole 1 (AH-1) at a depth of thirty-six (36) inches bgs and in Auger Hole 2 (AH-2) at a depth of twenty-four (24) inches bgs. Samples were collected and submitted to Europhins Laboratory in Midland, Texas for analysis of Benzene, Toulene, Ethylbenzene, and Xylenes (BTEX) by EPA method 8021B, Total Petroleum Hydrocarbons (TPH) by EPA method 8015M, and Chlorides by EPA method E300.0. Analytical concentrations for TPH were above the NMOCD remediation standards in Auger Hole 1 in interval 0-6", while chloride exceeded the reclamation standards in Auger Hole 2 in interval 0-6". All other analysis were below both the NMOCD Closure Criteria or Reclamation Standards. See Table 1 for analytical results. See Appendix C for attached photos detailing release and impact to pad. See Figure 3 for Delineation Plat.

SOIL DELINEATION AND REMEDIATION WORKPLAN

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

If you have any questions, or if additional information is required, please feel free to call me at 432-563-2200 (office) or 432-894-6038 (cell).

Thank you,



Blake Estep
Project Manager
Etech Environmental & Safety Solutions, Inc.



Jeffrey Kindley, P.G.
Senior Project Manager/Geologist
Etech Environmental & Safety Solutions, Inc.

Attachments:

Figure 1 – Topographic Map

Figure 2 – Aerial Proximity Map

Figure 3 – Delineation Plat

Table 1 – Concentrations of Benzene, BTEX, TPH, and Chloride Delineation

Appendix A: Initial Release Notification and Corrective Action Form C-141

Appendix B: Groundwater Data Maps and Supporting Water Well Data

Appendix C: Photographic Documentation

Appendix D: Laboratory Analytical

cc: File

Figure 1

Topographic Map

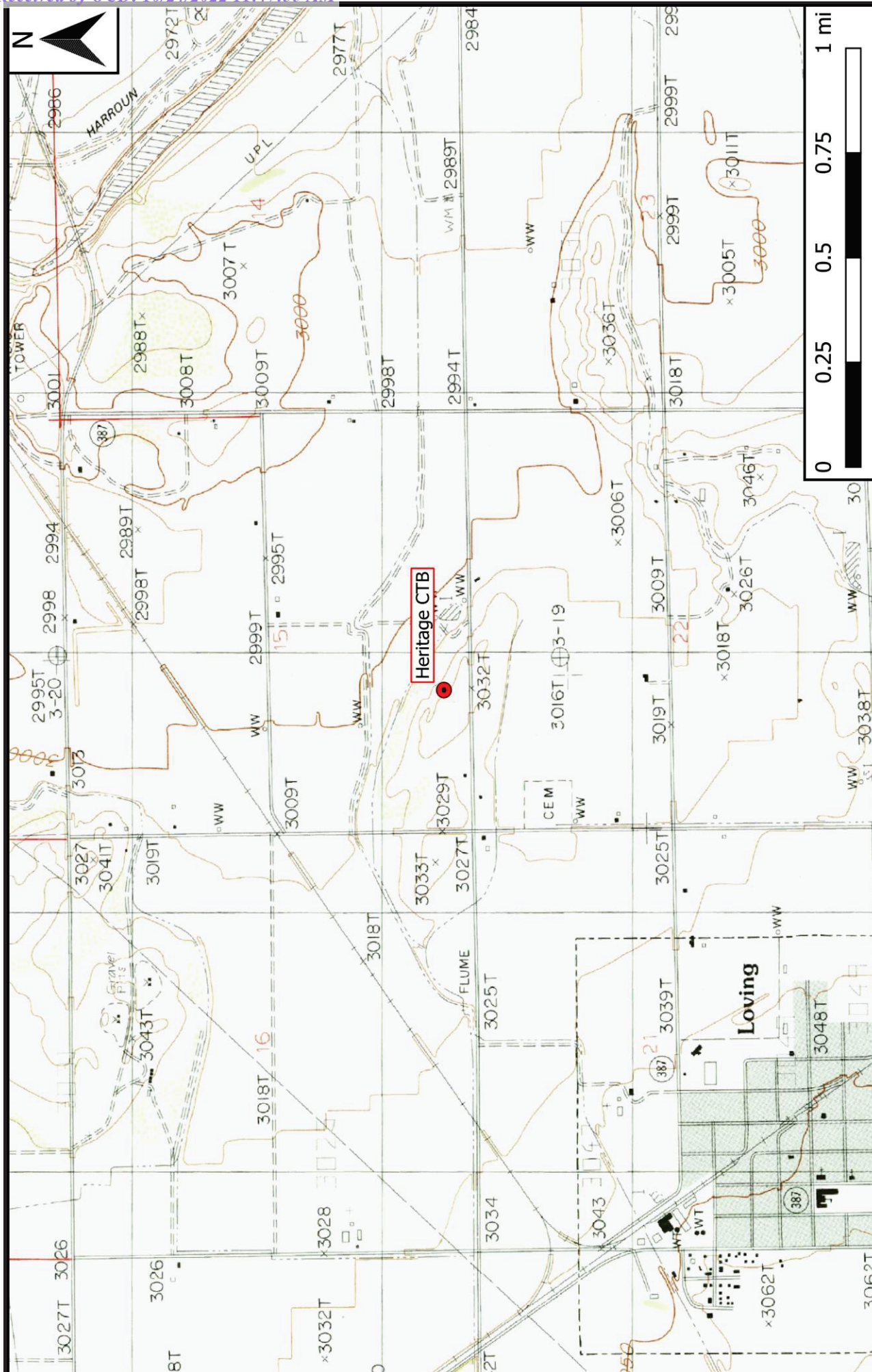


Figure 1

Topographic Map

Chevron USA

Heritage CTB

GPS: 32.299047, -104.078094

Eddy County

Legend

● Site Location



Drafted: mag Checked: be Date: 8/9/22

Figure 2

Aerial Proximity Map

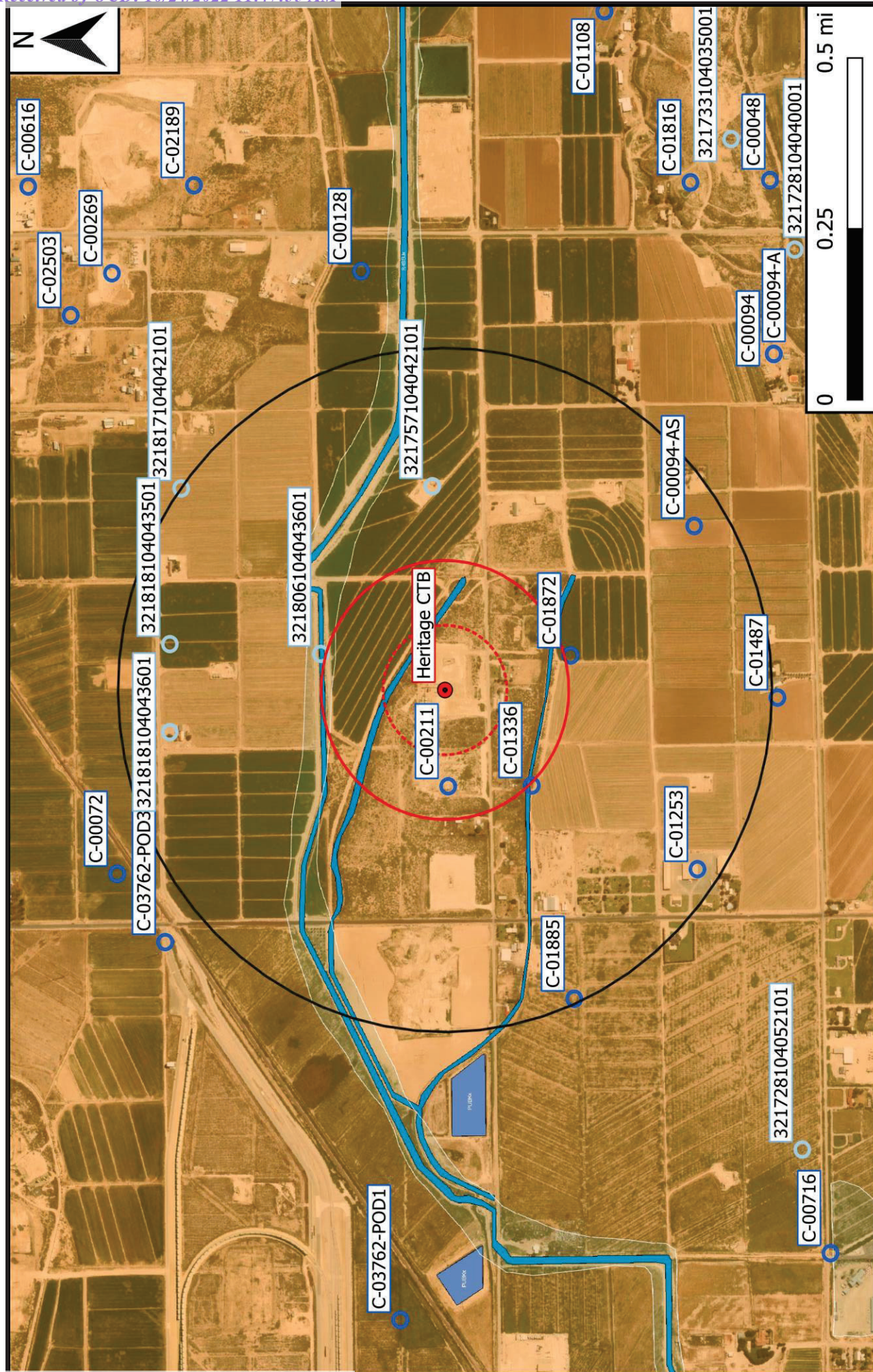


Figure 2

Aerial Proximity Map

Chevron USA

Heritage CTB

GPS: 32.299047, -104.078094

Eddy County

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



Drafted: mag Checked: be Date: 8/9/22

Figure 3

Site and Sample Location Map



Figure 3 Site and Sample Location Map		Project Name:	Heritage CTB	Project No.:	15980
		Date Sampled:	May 2, 2022	GPS:	32.29905, -104.07809

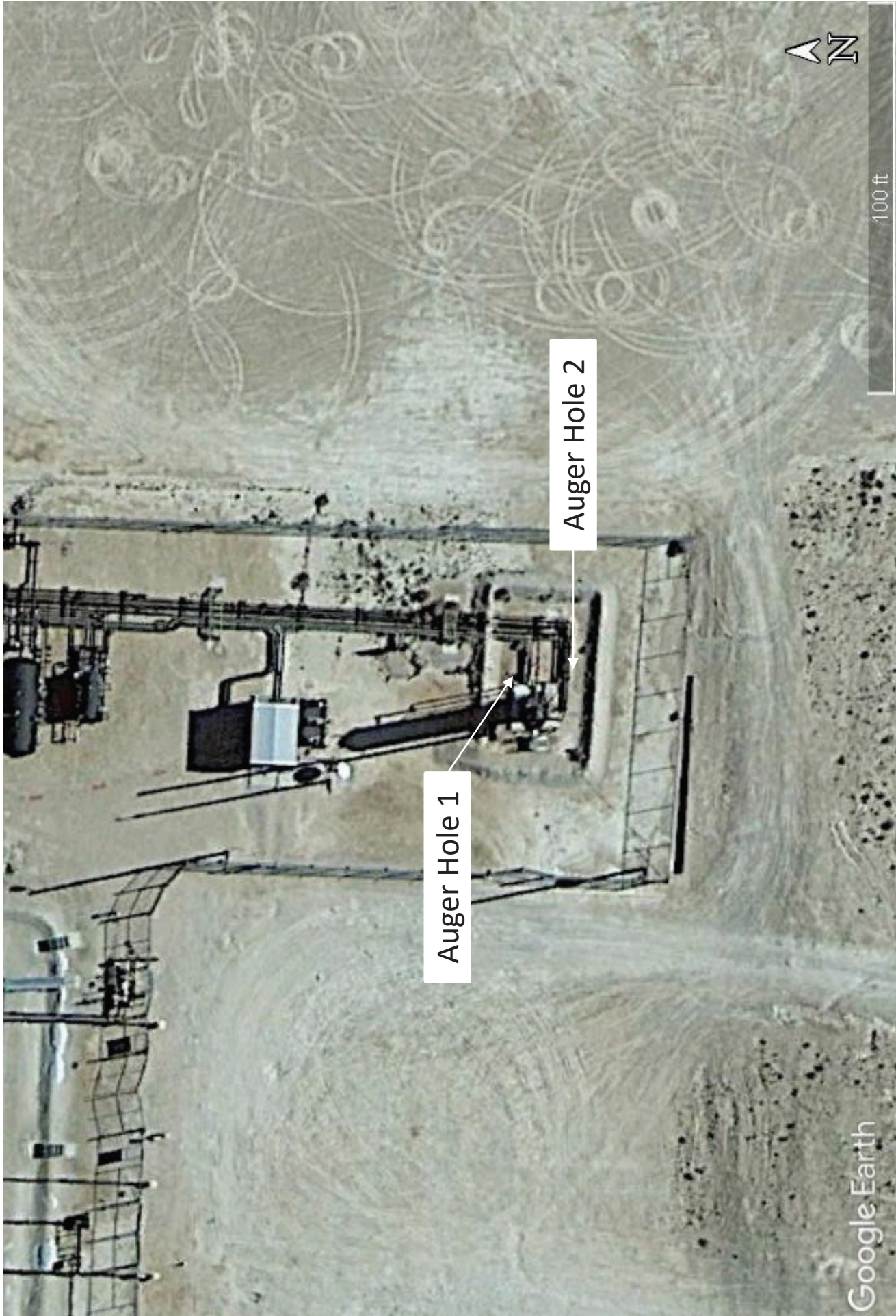


Table 1
Concentrations of BTEX, TPH, and Chloride in Soil

TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL - DELINEATION

CHEVRON USA

Heritage CTB

EDDY 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 C ₆ -C ₁₀	TPH DRO C ₁₀ -C ₂₈	TPH ORO C ₂₈ -C ₃₆	
NMOCD RRAL			10 mg/kg					50 mg/kg				100 mg/kg	600 mg/kg
Bottom Hole Sample Results													
Auger Hole 1	0-6"	5/2/2022	ND	ND	ND	ND	ND	ND	ND	545	143	688	11.1
Auger Hole 1	30-36"	5/2/2022	ND	ND	ND	ND	ND	ND	ND	72.4	ND	72.4	ND
Auger Hole 2	0-6"	5/2/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	778
Auger Hole 2	18-24"	5/2/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	291

Bold and Yellow Highlighted indicates Analyte Above NMOCD Regulatory Limit

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

* - Due to safety concerns regarding the production equipment, sample areas will be addressed at the time of permanent abandonment of the facility.

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

Appendix A

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

Form C-141
Revised April 3, 2017
Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Chevron USA	Contact: Josepha DeLeon
Address: 6301 Deauville Blvd., Midland, TX 79706	Telephone No.: 575-263-0424
Facility Name: Heritage Central Tank Battery	Facility Type: Tank Battery
Surface Owner	Mineral Owner: State
API No. 30-015-40166	

LOCATION OF RELEASE

Unit Letter N	Section 15	Township 23S	Range 28E	Feet from the 330	North/South Line South	Feet from the 2010	East/West Line West	County Eddy
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Latitude: 32.2989922 **Longitude:** -104.07724 NAD83

NATURE OF RELEASE

Type of Release: Oil Spill	Volume of Release: 19.55 barrels oil	Volume Recovered: 16 barrels oil
Source of Release: Heater treater fire tube gasket	Date and Hour of Occurrence: 06/19/2018; 12:00 AM	Date and Hour of Discovery: 06/19/2018; 02:00 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Maxey Brown, Olivia Yu – NMOCD R. Mann – State	
By Whom? Josepha DeLeon	Date and Hour: 6/20/2018; 10:41 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A


Describe Cause of Problem and Remedial Action Taken.*

Heater treater fire tube gasket failure. Vessel was isolated and contents transferred to tank. Vacuum truck collected standing fluid.

Describe Area Affected and Cleanup Action Taken.*

Spill was contained on facility pad in area intended to collect fluids. Remediation plan will be submitted.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

 Signature:		<u>OIL CONSERVATION DIVISION</u> Approved by Environmental Specialist:	
Printed Name: Josepha DeLeon			
Title: Environmental Compliance Specialist	Approval Date:	Expiration Date:	
E-mail Address: jdxd@chevron.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 06/25/2018	Phone: 575-263-0424		

Incident ID	nAB1819053650
District RP	
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Remediation Plan

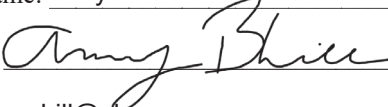
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

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

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

Printed Name: Amy Barnhill Title: Water Advisor
Signature:  Date: 10-24-22
email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

Received by: _____ Date: _____

☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 10/25/2022

Appendix B

Groundwater Data Maps and Supporting Water Well Data

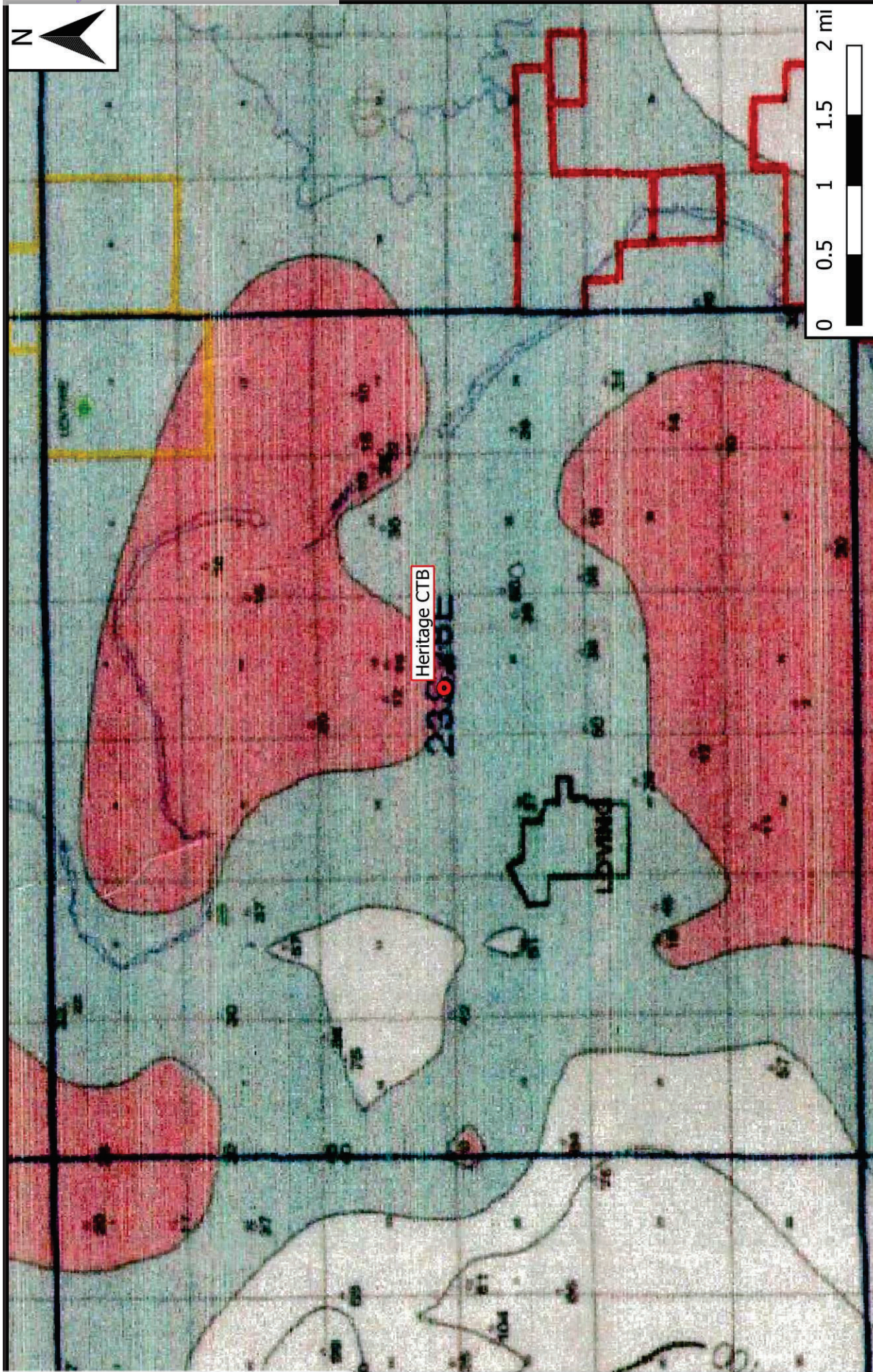


Figure 4

Inferred Depth to Groundwater Trend Map

Chevron USA

Heritage CTB

GPS: 32.299047, -104.078094

Eddy County

Legend



Site Location

Drafted: mag

Checked: be

Date: 8/9/22









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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD	County	Q Q Q					Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Column	
		Sub-basin		64	16	4	Sec										
C_00211		C	ED	4	3	3	15	23S	28E	586570	3573949*		226	89	48	41	
C_01336		C	ED	2	1	1	22	23S	28E	586572	3573744*		309	190	30	160	
C_01872		C	ED		2	1	22	23S	28E	586878	3573649*		318	68	48	20	
C_00094 AS		C	CUB	ED	1	3	2	22	23S	28E	587183	3573346*		722	165	40	125
C_01253			CUB	ED	1	3	1	22	23S	28E	586375	3573338*		748	179	50	129
C_01885			C	ED		2	2	21	23S	28E	586070	3573640*		792	104	35	69

Average Depth to Water: **41 feet**

Minimum Depth: **30 feet**

Maximum Depth: **50 feet**

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 586796.75

Northing (Y): 3573956.72

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.

8/9/22 11:01 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)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	00094 AS	1	3	2	22	23S	28E	587183	3573346*

x

Driller License: 46 **Driller Company:** ABBOTT BROTHERS COMPANY

Driller Name: MURRELL ABBOTT

Drill Start Date: 04/23/1976	Drill Finish Date: 04/30/1976	Plug Date:
Log File Date: 05/11/1976	PCW Rcv Date: 06/01/1976	Source: Shallow
Pump Type: TURBIN	Pipe Discharge Size: 8	Estimated Yield: 1900 GPM
Casing Size: 16.00	Depth Well: 165 feet	Depth Water: 40 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	40	165	Sandstone/Gravel/Conglomerate

x

Casing Perforations:	Top	Bottom
	85	165

x

Meter Number: 569	Meter Make: WATER SPEC
Meter Serial Number: 934630	Meter Multiplier: 1.0000
Number of Dials: 4	Meter Type: Diversion
Unit of Measure: Acre-Feet	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
12/29/1998	1999	0	A	ms		0
06/15/1999	1999	0	A	ms		0
09/29/1999	1999	0	A	ms		0
12/28/1999	1999	0	A	mb		0
04/06/2000	2000	0	A	mb		0
07/07/2000	2000	0	A	mb		0
10/17/2000	2000	0	A	mb		0
01/05/2001	2000	0	A	ms		0
05/03/2001	2001	0	A	ms		0
07/20/2001	2001	0	A	ms		0
09/27/2001	2001	0	A	ms		0
11/08/2001	2001	0	A	AM		0
04/10/2002	2002	0	A	MB		0
06/12/2002	2002	11	A	MS		11.300
09/03/2002	2002	20	A	ms		8.820
10/22/2002	2002	20	A	ms		0
01/13/2003	2002	20	A	ms		0
06/03/2003	2003	45	A	ms		24.690
07/10/2003	2003	55	A	ms		9.730
08/20/2003	2003	79	A	ab		24.440

12/02/2003	2003	85	A	ab	6.270
04/10/2004	2004	85	A	RPT	0
07/10/2004	2004	85	A	RPT	0
10/30/2004	2004	85	A	RPT	0
01/03/2005	2004	85	A	TW	0
07/06/2005	2005	85	A	JW	0
04/01/2006	2006	85	A	RPT	0

x		
**YTD Meter Amounts:	Year	Amount
	1999	0
	2000	0
	2001	0
	2002	20.120
	2003	65.130
	2004	0
	2005	0
	2006	0


*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.



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	00211	4	3	3	15	23S	28E	586570	3573949* 
x									
Driller License:		592		Driller Company:		TOMBLIN DRILLING			
Driller Name:		J. W. TOMBLIN							
Drill Start Date:		06/19/1979		Drill Finish Date:		06/20/1979		Plug Date:	
Log File Date:		09/26/1979		PCW Rcv Date:		12/08/1950		Source: Shallow	
Pump Type:				Pipe Discharge Size:				Estimated Yield: 18 GPM	
Casing Size:		7.00		Depth Well:		89 feet		Depth Water: 48 feet	
x									
Water Bearing Stratifications:				Top	Bottom	Description			
				75	88	Sandstone/Gravel/Conglomerate			
x									

*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.



New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	01253	1	3	1	22	23S	28E	586375	3573338*

Driller License: 410 **Driller Company:** BRININSTOOL, A.M.
Driller Name: BRININSTOOL, A.M.
Drill Start Date: 05/15/1965 **Drill Finish Date:** 06/04/1965 **Plug Date:**
Log File Date: 07/09/1965 **PCW Rev Date:** 04/22/1966 **Source:** Shallow
Pump Type: **Pipe Discharge Size:** **Estimated Yield:**
Casing Size: 20.00 **Depth Well:** 179 feet **Depth Water:** 50 feet

Water Bearing Stratifications:	Top	Bottom	Description
	80	100	Other/Unknown
	122	170	Sandstone/Gravel/Conglomerate
	170	179	Other/Unknown

Meter Number:	571	Meter Make:	MCCROMETER
Meter Serial Number:	02-5617-10	Meter Multiplier:	1.0000
Number of Dials:	3	Meter Type:	Diversion
Unit of Measure:	Acre-Feet	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
12/29/1998	1999	10	A	ms		0
04/01/1999	1999	10	A	ms		0.110
06/15/1999	1999	11	A	ms		0.660
09/29/1999	1999	11	A	ms		0.420
01/04/2000	1999	11	A	ms		0.070
04/06/2000	2000	11	A	mb		0.010
07/07/2000	2000	11	A	mb		0.180
10/19/2000	2000	12	A	mb		0.300
01/05/2001	2000	12	A	ms		0
05/03/2001	2001	12	A	ms		0.140
07/20/2001	2001	12	A	ms		0
09/27/2001	2001	15	A	ms		2.620
11/08/2001	2001	64	A	AM		49.290
04/10/2002	2002	105	A	MB		41.410
06/07/2002	2002	210	A	MS		105.240
09/03/2002	2002	274	A	ms		63.480
01/13/2003	2002	308	A	ms		34.440
04/02/2003	2003	308	A	ms		0
06/03/2003	2003	322	A	ms		13.550
08/20/2003	2003	357	A	ab		35.370

10/27/2003	2003	357	A	TW	0
01/06/2004	2003	0	A	RPT	0
01/06/2004	2003	357	A	ab	0
04/27/2004	2004	119	A	RPT	119.240
07/14/2004	2004	119	A	TW	0
10/20/2004	2004	119	A	TW	0
01/03/2005	2004	119	A	TW	0
03/30/2005	2005	119	A	JW	0
07/06/2005	2005	119	A	JW	0
01/05/2006	2005	119	A	TW PUMP PULLED	0

**YTD Meter Amounts:			Year	Amount
			1999	1.260
			2000	0.490
			2001	52.050
			2002	244.570
			2003	48.920
			2004	119.240
			2005	0

Meter Number:	572	Meter Make:	ELECTRIC
Meter Serial Number:	15082467	Meter Multiplier:	1.0000
Number of Dials:	5	Meter Type:	Power Child
Unit of Measure:	Kilowatt Hours	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	

Meter Readings in (Kilowatt Hours)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
12/29/1998	1999	46229	A	ms		0
04/01/1999	1999	46240	A	ms		11.000
06/15/1999	1999	46275	A	ms		35.000
09/29/1999	1999	46307	A	ms		32.000
04/06/2000	2000	5318	C	mb	Meter Reading Correction	-40989.000
07/07/2000	2000	6318	A	mb		1000.000
10/19/2000	2000	6336	A	mb		18.000
07/20/2001	2001	6336	A	ms		0
06/03/2003	2003	0	A	ms		0

**YTD Meter Amounts:			Year	Amount
			1999	78.000
			2000	-39971.000
			2001	0
			2003	0

*UTM location was derived from PLSS - see Help

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8/9/22 11:02 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)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
C	01336	2	1	1	22	23S	28E	586572	3573744*

Driller License: 24

Driller Company: BRININSTOOL, M.D.

Driller Name: HOWARD HEMLER

Drill Start Date: 09/03/1966

Drill Finish Date: 09/20/1966

Plug Date:

Log File Date: 01/26/1967

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 7.00

Depth Well: 190 feet

Depth Water: 30 feet

Water Bearing Stratifications:

Top Bottom Description

38 42 Sandstone/Gravel/Conglomerate

66 75 Sandstone/Gravel/Conglomerate

155 160 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

38 42

*UTM location was derived from PLSS - see Help

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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	Tw	Rng	X	Y
C	01872	2	1	22	23S	28E		586878	3573649*

x

Driller License: 113

Driller Company: MORELAND, A.J.

Driller Name: MORELAND, A.J.

Drill Start Date: 04/07/1980

Drill Finish Date: 06/12/1980

Plug Date:

Log File Date: 07/02/1980

PCW Rev Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 300 GPM

Casing Size: 7.00

Depth Well: 68 feet

Depth Water: 48 feet

x

Water Bearing Stratifications:

Top Bottom Description

52 68 Sandstone/Gravel/Conglomerate

*UTM location was derived from PLSS - see Help

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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	Tw	Rng	X	Y
C	01885	2	2	21	23S	28E	586070	3573640*	

Driller License:	592	Driller Company:	TOMBLIN DRILLING
Driller Name:	JIM TOMBLIN		
Drill Start Date:	12/10/1979	Drill Finish Date:	12/17/1979
Log File Date:	01/14/1980	PCW Rcv Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	7.00	Depth Well:	104 feet
		Depth Water:	35 feet

Water Bearing Stratifications:	Top	Bottom	Description
	56	104	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	65	104

*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.

8/9/22 11:02 AM

POINT OF DIVERSION SUMMARY

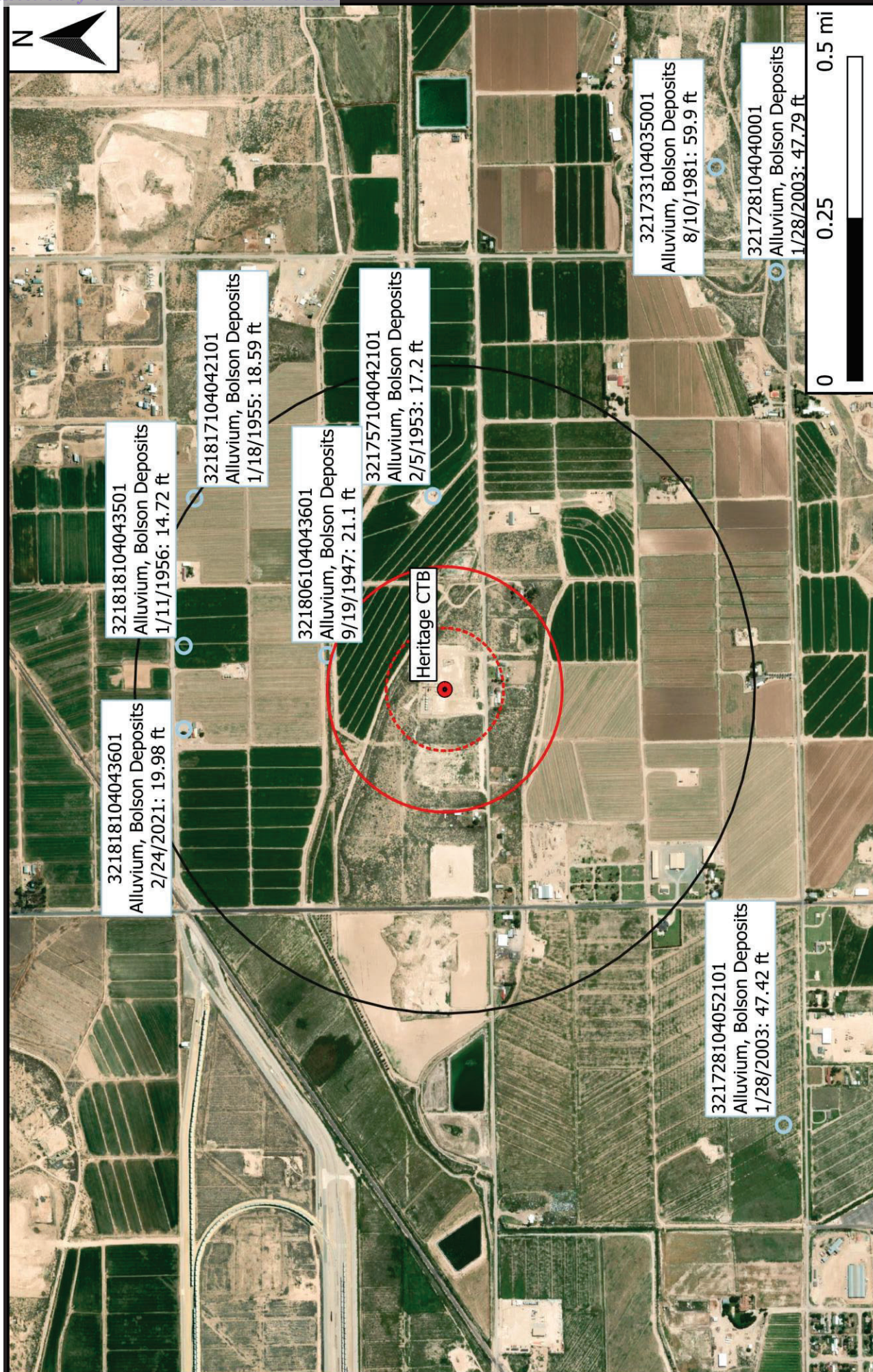


Figure 5

USGS Well Proximity Map

Chevron USA

Heritage CTB

GPS: 32.299047, -104.078094

Eddy County

Legend

- Site Location
- Well - USGS
- ⬢ 500 Ft Radius
- ⬢ 1000 Ft Radius
- ⬢ 0.5 Mi Radius

Drafted: mag

Checked: be

Date:

8/9/22



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Agency code = usgs

site_no list =

- 321757104042101

Minimum number of levels = 1

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USGS 321757104042101 23S.28E.15.433131

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°17'57", Longitude 104°04'21" NAD27

Land-surface elevation 3,000 feet above NAVD88

The depth of the well is 149 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

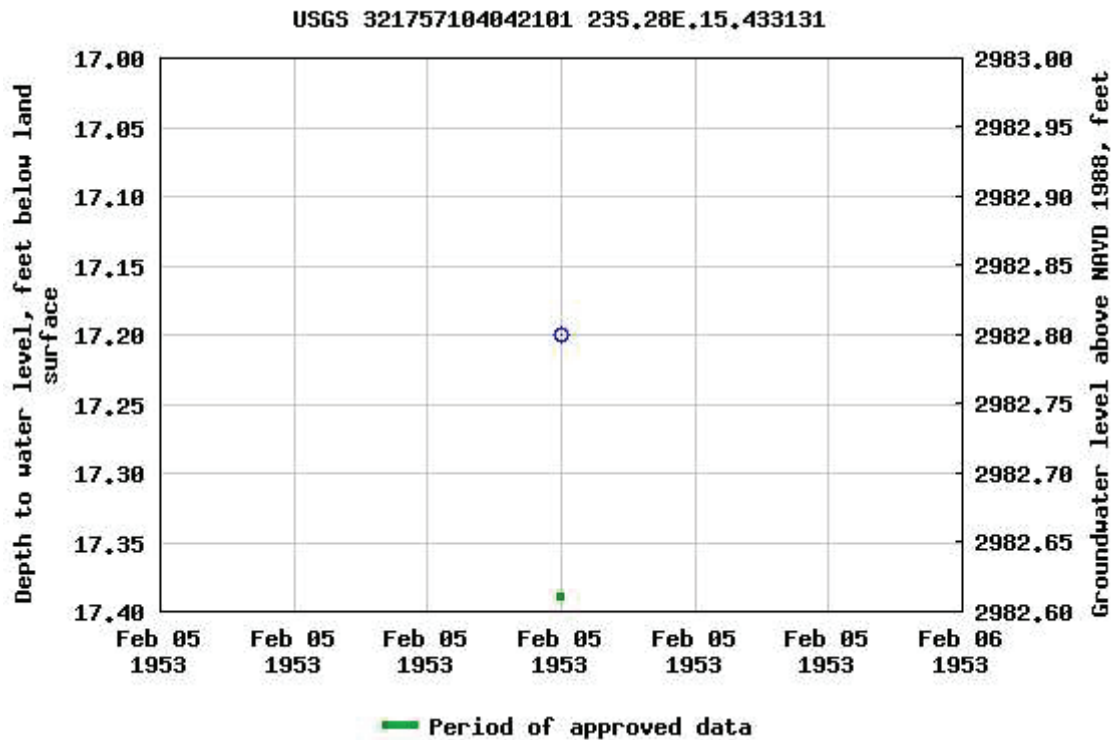
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site_no list =

- 321806104043601

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Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°18'06", Longitude 104°04'36" NAD27

Land-surface elevation 3,001 feet above NAVD88

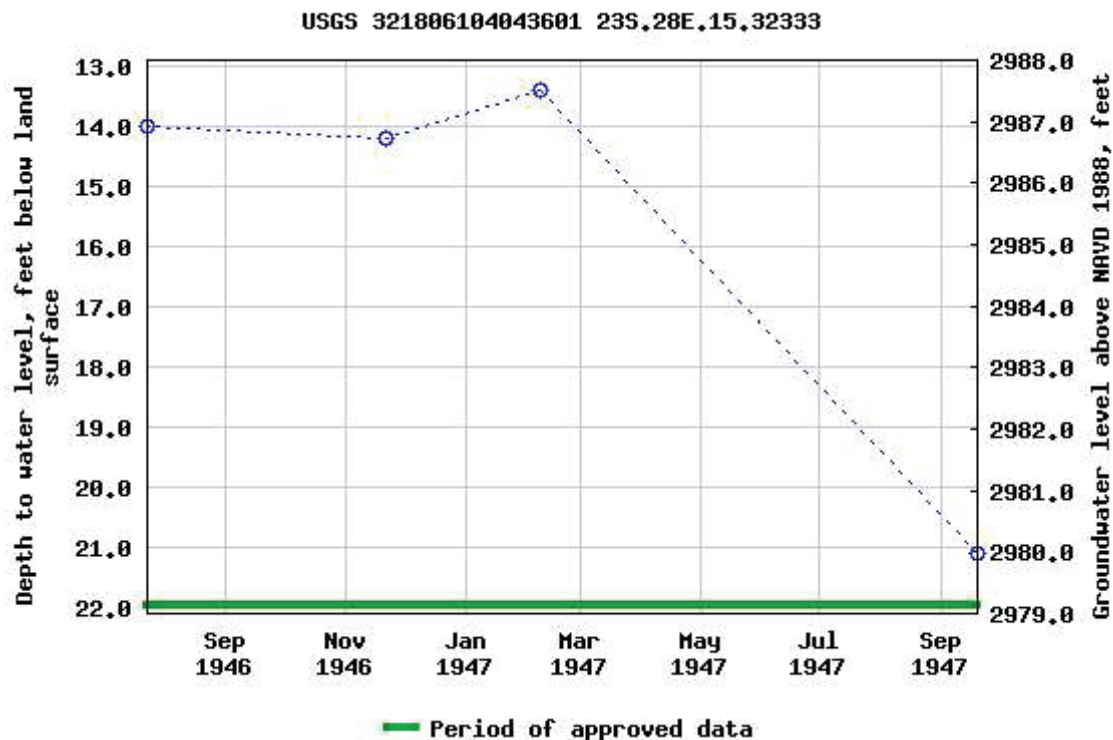
The depth of the well is 145 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

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Table of data
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USGS 321817104042101 23S.28E.15.411131

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Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°18'17", Longitude 104°04'21" NAD27

Land-surface elevation 2,995 feet above NAVD88

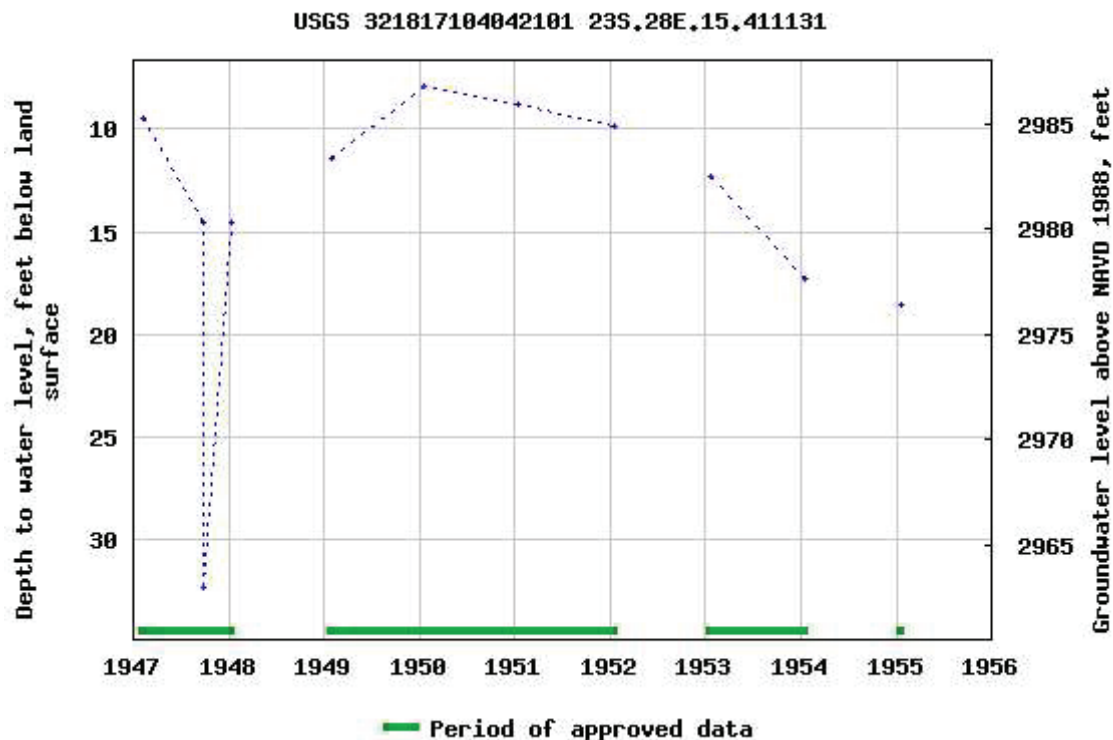
The depth of the well is 88 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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Tab-separated data
Graph of data
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Geographic Area:

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- 321818104043501

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USGS 321818104043501 23S.28E.15.32111A

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°18'18", Longitude 104°04'35" NAD27

Land-surface elevation 2,998 feet above NAVD88

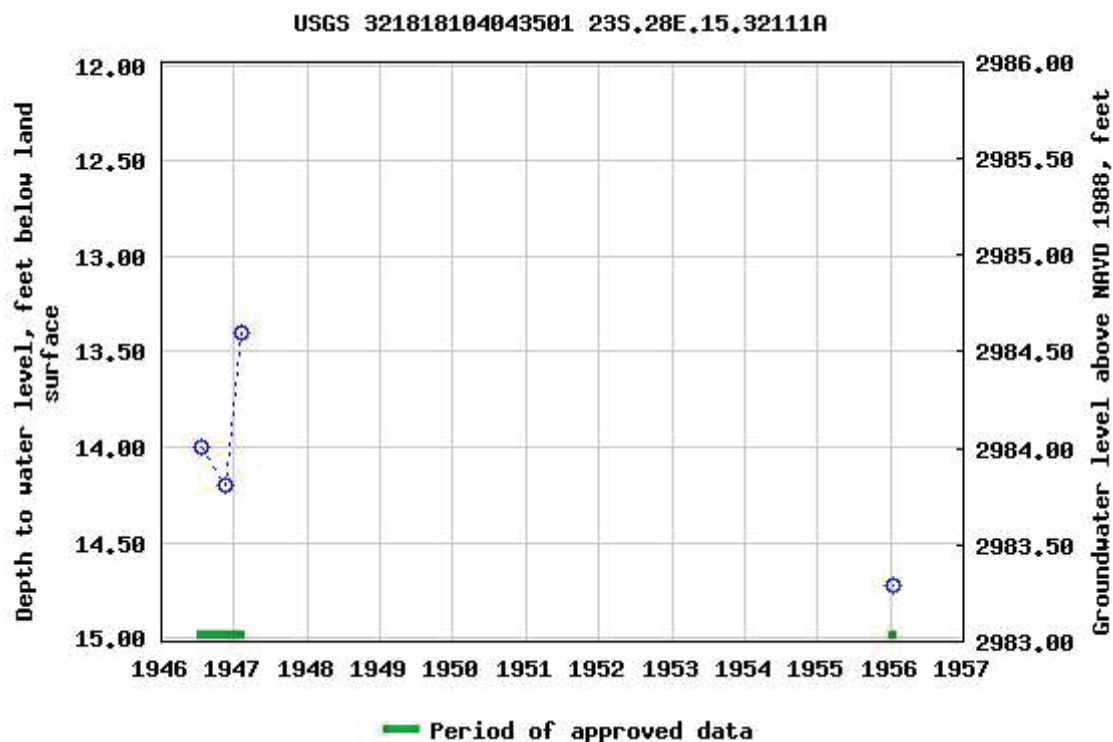
The depth of the well is 137 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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



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Minimum number of levels = 1

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USGS 321818104043601 23S.28E.15.32111

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Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°18'18.5", Longitude 104°04'44.7" NAD83

Land-surface elevation 3,004.90 feet above NGVD29

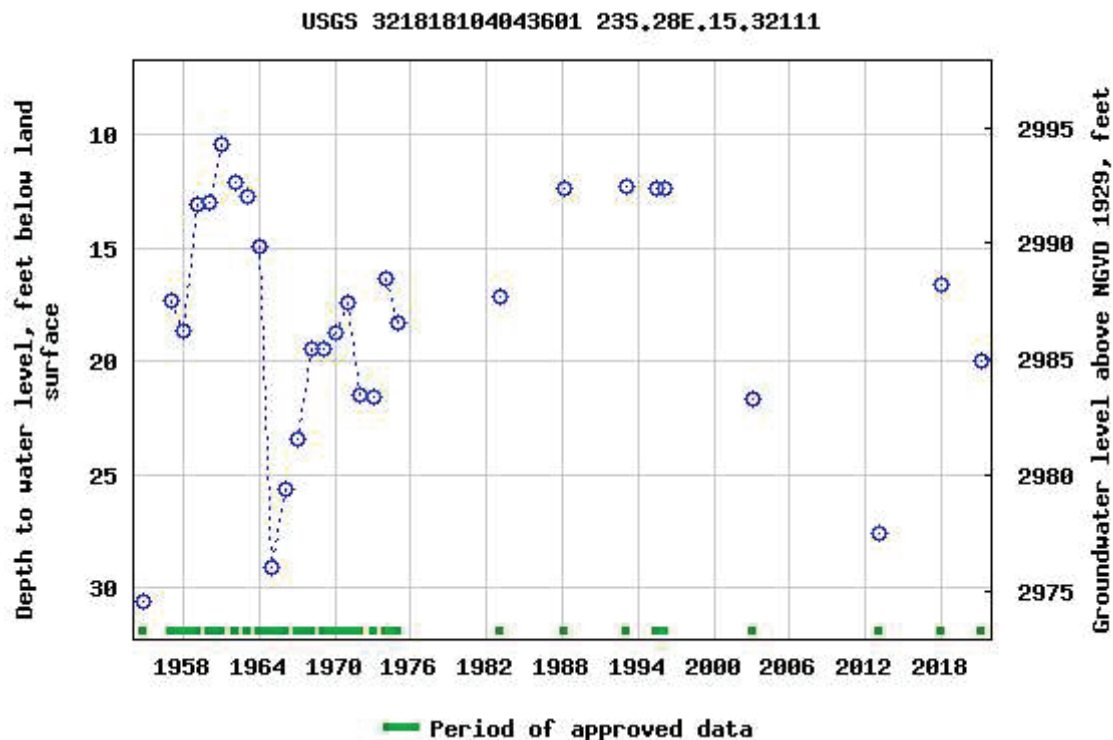
The depth of the well is 160 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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



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Title: Groundwater for USA: Water Levels

URL: [https://nwis.waterdata.usgs.gov/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nwis/gwlevels?site=321818104043601&agency_cd=USGS)

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Appendix C

Photographic Documentation

Project Name: Heritage CTB
Project No: 15980

Photographic Documentation

Appendix D

Laboratory Analytical



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-14331-1
Laboratory Sample Delivery Group: 15930
Client Project/Site: Heritage CTB

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

Attn: Brandon Wilson

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
5/11/2022 7:28:02 AM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

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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.

Client: Etech Environmental & Safety Solutions
Project/Site: Heritage CTB

Laboratory Job ID: 880-14331-1
SDG: 15930

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Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
α	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: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

Job ID: 880-14331-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-14331-1**

Receipt

The samples were received on 5/3/2022 11:39 AM. 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 5.7°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

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-24742 and analytical batch 880-24769 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: Auger Hole 1 (880-14331-1). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-24814 and analytical batch 880-24887 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

Client Sample ID: Auger Hole 1

Lab Sample ID: 880-14331-1

Date Collected: 05/02/22 14:00

Matrix: Solid

Date Received: 05/03/22 11:39

Sample Depth: 0 - 6"

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		05/10/22 10:52	05/11/22 04:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/10/22 10:52	05/11/22 04:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/10/22 10:52	05/11/22 04:14	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/10/22 10:52	05/11/22 04:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/10/22 10:52	05/11/22 04:14	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/10/22 10:52	05/11/22 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	05/10/22 10:52	05/11/22 04:14	1
1,4-Difluorobenzene (Surr)	101		70 - 130	05/10/22 10:52	05/11/22 04:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/11/22 08:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	688		50.0		mg/Kg			05/05/22 12:45	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		05/03/22 14:16	05/04/22 20:03	1
Diesel Range Organics (Over C10-C28)	545		50.0		mg/Kg		05/03/22 14:16	05/04/22 20:03	1
Oil Range Organics (Over C28-C36)	143		50.0		mg/Kg		05/03/22 14:16	05/04/22 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	36	S1-	70 - 130	05/03/22 14:16	05/04/22 20:03	1
o-Terphenyl	34	S1-	70 - 130	05/03/22 14:16	05/04/22 20:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.1	F1	5.00		mg/Kg			05/06/22 06:56	1

Client Sample ID: Auger Hole 1

Lab Sample ID: 880-14331-2

Date Collected: 05/02/22 14:05

Matrix: Solid

Date Received: 05/03/22 11:39

Sample Depth: 30 - 36"

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		05/10/22 10:52	05/11/22 04:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 04:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 04:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/10/22 10:52	05/11/22 04:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 04:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/10/22 10:52	05/11/22 04:34	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

Client Sample ID: Auger Hole 1

Lab Sample ID: 880-14331-2

Date Collected: 05/02/22 14:05

Matrix: Solid

Date Received: 05/03/22 11:39

Sample Depth: 30 - 36"

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	05/10/22 10:52	05/11/22 04:34	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/10/22 10:52	05/11/22 04:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/11/22 08:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	72.4		50.0		mg/Kg			05/05/22 12:45	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		05/03/22 14:16	05/04/22 20:25	1
Diesel Range Organics (Over C10-C28)	72.4		50.0		mg/Kg		05/03/22 14:16	05/04/22 20:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/03/22 14:16	05/04/22 20:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				05/03/22 14:16	05/04/22 20:25	1
o-Terphenyl	79		70 - 130				05/03/22 14:16	05/04/22 20:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			05/06/22 07:15	1

Client Sample ID: Auger Hole 2

Lab Sample ID: 880-14331-3

Date Collected: 05/02/22 14:10

Matrix: Solid

Date Received: 05/03/22 11:39

Sample Depth: 0 - 6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 04:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 04:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 04:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/10/22 10:52	05/11/22 04:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/10/22 10:52	05/11/22 04:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/10/22 10:52	05/11/22 04:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	05/10/22 10:52	05/11/22 04:55	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/10/22 10:52	05/11/22 04:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/11/22 08:13	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			05/05/22 12:45	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

Client Sample ID: Auger Hole 2

Lab Sample ID: 880-14331-3

Date Collected: 05/02/22 14:10

Matrix: Solid

Date Received: 05/03/22 11:39

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	<50.0	U	50.0		mg/Kg		05/03/22 14:16	05/04/22 20:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/03/22 14:16	05/04/22 20:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/03/22 14:16	05/04/22 20:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				05/03/22 14:16	05/04/22 20:47	1
o-Terphenyl	72		70 - 130				05/03/22 14:16	05/04/22 20:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	778		24.8		mg/Kg			05/06/22 07:21	5

Client Sample ID: Auger Hole 2

Lab Sample ID: 880-14331-4

Date Collected: 05/02/22 14:15

Matrix: Solid

Date Received: 05/03/22 11:39

Sample Depth: 18 - 24"

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		05/10/22 10:52	05/11/22 05:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 05:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 05:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/10/22 10:52	05/11/22 05:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 05:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/10/22 10:52	05/11/22 05:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				05/10/22 10:52	05/11/22 05:15	1
1,4-Difluorobenzene (Surr)	99		70 - 130				05/10/22 10:52	05/11/22 05:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/11/22 08:13	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			05/05/22 12:45	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		05/04/22 14:31	05/05/22 15:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/04/22 14:31	05/05/22 15:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/04/22 14:31	05/05/22 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				05/04/22 14:31	05/05/22 15:44	1
o-Terphenyl	101		70 - 130				05/04/22 14:31	05/05/22 15:44	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

Client Sample ID: Auger Hole 2
Date Collected: 05/02/22 14:15
Date Received: 05/03/22 11:39
Sample Depth: 18 - 24"

Lab Sample ID: 880-14331-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	291		4.97		mg/Kg			05/06/22 07:28	1

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

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-14331-1	Auger Hole 1	109	101
880-14331-2	Auger Hole 1	106	100
880-14331-3	Auger Hole 2	108	100
880-14331-4	Auger Hole 2	105	99
880-14580-A-4-B MS	Matrix Spike	104	98
880-14580-A-4-C MSD	Matrix Spike Duplicate	106	101
LCS 880-25266/1-A	Lab Control Sample	99	99
LCSD 880-25266/2-A	Lab Control Sample Dup	100	97
MB 880-25110/5-A	Method Blank	101	95
MB 880-25266/5-A	Method Blank	98	95

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-14234-A-1-E MS	Matrix Spike	33 S1-	29 S1-
880-14234-A-1-F MSD	Matrix Spike Duplicate	43 S1-	34 S1-
880-14331-1	Auger Hole 1	36 S1-	34 S1-
880-14331-2	Auger Hole 1	78	79
880-14331-3	Auger Hole 2	72	72
880-14331-4	Auger Hole 2	96	101
LCS 880-24742/2-A	Lab Control Sample	105	104
LCSD 880-24742/3-A	Lab Control Sample Dup	113	110
MB 880-24742/1-A	Method Blank	86	97

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25110/5-A

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/09/22 13:08	05/10/22 12:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		90 - 170	03/30/22 17:20	03/30/22 17:20	1
1,2,4-Trichlorobenzene (Surr)	103		90 - 170	03/30/22 17:20	03/30/22 17:20	1

Lab Sample ID: MB 880-25266/5-A

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/10/22 10:52	05/11/22 03:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		90 - 170	03/30/22 10:23	03/31/22 07:24	1
1,2,4-Trichlorobenzene (Surr)	103		90 - 170	03/30/22 10:23	03/31/22 07:24	1

Lab Sample ID: LCS 880-25266/1-A

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08603		mg/Kg		86	70 - 130
Toluene	0.100	0.08465		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08620		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1796		mg/Kg		90	70 - 130
o-Xylene	0.100	0.09780		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		90 - 170
1,2,4-Trichlorobenzene (Surr)	103		90 - 170

Lab Sample ID: LCSD 880-25266/2-A

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25266

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.07230		mg/Kg		72	70 - 130	17	35

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

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

Lab Sample ID: LCSD 880-25266/2-A

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25266

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.07434		mg/Kg		74	70 - 130	13	35
Ethylbenzene	0.100	0.07575		mg/Kg		76	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.1592		mg/Kg		80	70 - 130	12	35
o-Xylene	0.100	0.08755		mg/Kg		88	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		90 - 170
1,2-Dichlorobenzene (Surr)	9		90 - 170

Lab Sample ID: 880-14580-A-4-B MS

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0998	0.07959		mg/Kg		80	70 - 130
Toluene	<0.00201	U	0.0998	0.07831		mg/Kg		78	70 - 130
Ethylbenzene	<0.00201	U	0.0998	0.08032		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1674		mg/Kg		84	70 - 130
o-Xylene	<0.00201	U	0.0998	0.09136		mg/Kg		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		90 - 170
1,2-Dichlorobenzene (Surr)	1		90 - 170

Lab Sample ID: 880-14580-A-4-C MSD

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.08680		mg/Kg		87	70 - 130	9	35
Toluene	<0.00201	U	0.100	0.08529		mg/Kg		85	70 - 130	9	35
Ethylbenzene	<0.00201	U	0.100	0.08679		mg/Kg		87	70 - 130	8	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1811		mg/Kg		90	70 - 130	8	35
o-Xylene	<0.00201	U	0.100	0.09802		mg/Kg		98	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		90 - 170
1,2-Dichlorobenzene (Surr)	101		90 - 170

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

Lab Sample ID: MB 880-24742/1-A

Matrix: Solid

Analysis Batch: 24769

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24742

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/03/22 14:16	05/04/22 10:58	1

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QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

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

Lab Sample ID: MB 880-24742/1-A

Matrix: Solid

Analysis Batch: 24769

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 24742

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/03/22 14:16	05/04/22 10:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/03/22 14:16	05/04/22 10:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-c t l o r o o a b l n e	, h		90 - 170				03/07/14 12h	03/04/15 / 10/23,	1
o-p e r y t e n 8 l	: 9		90 - 170				03/07/14 142h	03/04/15 / 10/23,	1

Lab Sample ID: LCS 880-24742/2-A

Matrix: Solid

Analysis Batch: 24769

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 24742

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	935.0		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	967.7		mg/Kg		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-c t l o r o o a b l n e	103		90 - 170				
o-p e r y t e n 8 l	104		90 - 170				

Lab Sample ID: LCSD 880-24742/3-A

Matrix: Solid

Analysis Batch: 24769

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 24742

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1022		mg/Kg		102	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	1040		mg/Kg		104	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-c t l o r o o a b l n e	117		90 - 170						
o-p e r y t e n 8 l	110		90 - 170						

Lab Sample ID: 880-14234-A-1-E MS

Matrix: Solid

Analysis Batch: 24769

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 24742

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	1000	331.2	F1	mg/Kg		33	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1 F2	1000	292.2	F1	mg/Kg		28	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-c t l o r o o a b l n e	77	S1-	90 - 170						
o-p e r y t e n 8 l	/:	S1-	90 - 170						

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

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

Lab Sample ID: 880-14234-A-1-F MSD

Matrix: Solid

Analysis Batch: 24769

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 24742

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	<50.0	U F1	998	374.5	F1	mg/Kg		38	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1 F2	998	363.9	F1 F2	mg/Kg		35	70 - 130	22	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-c t l o r o o a t h e	47	S1-	90 - 170								
o-p e r y t e n 8 l	74	S1-	90 - 170								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-24814/1-A

Matrix: Solid

Analysis Batch: 24887

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			05/06/22 06:37	1

Lab Sample ID: LCS 880-24814/2-A

Matrix: Solid

Analysis Batch: 24887

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	266.7		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-24814/3-A

Matrix: Solid

Analysis Batch: 24887

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	273.0		mg/Kg		109	90 - 110	2	20

Lab Sample ID: 880-14331-1 MS

Matrix: Solid

Analysis Batch: 24887

Client Sample ID: Auger Hole 1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	11.1	F1	250	305.4	F1	mg/Kg		118	90 - 110

Lab Sample ID: 880-14331-1 MSD

Matrix: Solid

Analysis Batch: 24887

Client Sample ID: Auger Hole 1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11.1	F1	250	281.0		mg/Kg		108	90 - 110	8	20

Eurofins Midland

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

GC VOA

Prep Batch: 25110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-25110/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 25224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14331-1	Auger Hole 1	Total/NA	Solid	8021B	25266
880-14331-2	Auger Hole 1	Total/NA	Solid	8021B	25266
880-14331-3	Auger Hole 2	Total/NA	Solid	8021B	25266
880-14331-4	Auger Hole 2	Total/NA	Solid	8021B	25266
MB 880-25110/5-A	Method Blank	Total/NA	Solid	8021B	25110
MB 880-25266/5-A	Method Blank	Total/NA	Solid	8021B	25266
LCS 880-25266/1-A	Lab Control Sample	Total/NA	Solid	8021B	25266
LCSD 880-25266/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25266
880-14580-A-4-B MS	Matrix Spike	Total/NA	Solid	8021B	25266
880-14580-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25266

Prep Batch: 25266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14331-1	Auger Hole 1	Total/NA	Solid	5035	
880-14331-2	Auger Hole 1	Total/NA	Solid	5035	
880-14331-3	Auger Hole 2	Total/NA	Solid	5035	
880-14331-4	Auger Hole 2	Total/NA	Solid	5035	
MB 880-25266/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25266/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25266/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14580-A-4-B MS	Matrix Spike	Total/NA	Solid	5035	
880-14580-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14331-1	Auger Hole 1	Total/NA	Solid	Total BTEX	
880-14331-2	Auger Hole 1	Total/NA	Solid	Total BTEX	
880-14331-3	Auger Hole 2	Total/NA	Solid	Total BTEX	
880-14331-4	Auger Hole 2	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 24742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14331-1	Auger Hole 1	Total/NA	Solid	8015NM Prep	
880-14331-2	Auger Hole 1	Total/NA	Solid	8015NM Prep	
880-14331-3	Auger Hole 2	Total/NA	Solid	8015NM Prep	
MB 880-24742/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-24742/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-24742/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14234-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14234-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14331-1	Auger Hole 1	Total/NA	Solid	8015B NM	24742
880-14331-2	Auger Hole 1	Total/NA	Solid	8015B NM	24742

Eurofins Midland

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

GC Semi VOA (Continued)

Analysis Batch: 24769 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14331-3	Auger Hole 2	Total/NA	Solid	8015B NM	24742
MB 880-24742/1-A	Method Blank	Total/NA	Solid	8015B NM	24742
LCS 880-24742/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	24742
LCSD 880-24742/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	24742
880-14234-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	24742
880-14234-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	24742

Prep Batch: 24832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14331-4	Auger Hole 2	Total/NA	Solid	8015NM Prep	

Analysis Batch: 24856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14331-4	Auger Hole 2	Total/NA	Solid	8015B NM	24832

Analysis Batch: 24894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14331-1	Auger Hole 1	Total/NA	Solid	8015 NM	
880-14331-2	Auger Hole 1	Total/NA	Solid	8015 NM	
880-14331-3	Auger Hole 2	Total/NA	Solid	8015 NM	
880-14331-4	Auger Hole 2	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 24814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14331-1	Auger Hole 1	Soluble	Solid	DI Leach	
880-14331-2	Auger Hole 1	Soluble	Solid	DI Leach	
880-14331-3	Auger Hole 2	Soluble	Solid	DI Leach	
880-14331-4	Auger Hole 2	Soluble	Solid	DI Leach	
MB 880-24814/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-24814/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-24814/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14331-1 MS	Auger Hole 1	Soluble	Solid	DI Leach	
880-14331-1 MSD	Auger Hole 1	Soluble	Solid	DI Leach	

Analysis Batch: 24887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14331-1	Auger Hole 1	Soluble	Solid	300.0	24814
880-14331-2	Auger Hole 1	Soluble	Solid	300.0	24814
880-14331-3	Auger Hole 2	Soluble	Solid	300.0	24814
880-14331-4	Auger Hole 2	Soluble	Solid	300.0	24814
MB 880-24814/1-A	Method Blank	Soluble	Solid	300.0	24814
LCS 880-24814/2-A	Lab Control Sample	Soluble	Solid	300.0	24814
LCSD 880-24814/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	24814
880-14331-1 MS	Auger Hole 1	Soluble	Solid	300.0	24814
880-14331-1 MSD	Auger Hole 1	Soluble	Solid	300.0	24814

Eurofins Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

Client Sample ID: Auger Hole 1

Lab Sample ID: 880-14331-1

Date Collected: 05/02/22 14:00

Matrix: Solid

Date Received: 05/03/22 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	25266	05/10/22 10:52	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25224	05/11/22 04:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25300	05/11/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24894	05/05/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24742	05/03/22 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24769	05/04/22 20:03	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	24814	05/04/22 12:07	SC	XEN MID
Soluble	Analysis	300.0		1			24887	05/06/22 06:56	CH	XEN MID

Client Sample ID: Auger Hole 1

Lab Sample ID: 880-14331-2

Date Collected: 05/02/22 14:05

Matrix: Solid

Date Received: 05/03/22 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25266	05/10/22 10:52	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25224	05/11/22 04:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25300	05/11/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24894	05/05/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	24742	05/03/22 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24769	05/04/22 20:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	24814	05/04/22 12:07	SC	XEN MID
Soluble	Analysis	300.0		1			24887	05/06/22 07:15	CH	XEN MID

Client Sample ID: Auger Hole 2

Lab Sample ID: 880-14331-3

Date Collected: 05/02/22 14:10

Matrix: Solid

Date Received: 05/03/22 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25266	05/10/22 10:52	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25224	05/11/22 04:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25300	05/11/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			24894	05/05/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	24742	05/03/22 14:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24769	05/04/22 20:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	24814	05/04/22 12:07	SC	XEN MID
Soluble	Analysis	300.0		5			24887	05/06/22 07:21	CH	XEN MID

Client Sample ID: Auger Hole 2

Lab Sample ID: 880-14331-4

Date Collected: 05/02/22 14:15

Matrix: Solid

Date Received: 05/03/22 11:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	25266	05/10/22 10:52	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25224	05/11/22 05:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25300	05/11/22 08:13	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

Client Sample ID: Auger Hole 2
Date Collected: 05/02/22 14:15
Date Received: 05/03/22 11:39

Lab Sample ID: 880-14331-4
Matrix: Solid

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			24894	05/05/22 12:45	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	24832	05/04/22 14:31	DM	XEN MID
Total/NA	Analysis	8015B NM		1			24856	05/05/22 15:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	24814	05/04/22 12:07	SC	XEN MID
Soluble	Analysis	300.0		1			24887	05/06/22 07:28	CH	XEN MID

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

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

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

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

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: Heritage CTB

Job ID: 880-14331-1
SDG: 15930

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-14331-1	Auger Hole 1	Solid	05/02/22 14:00	05/03/22 11:39	0 - 6"
880-14331-2	Auger Hole 1	Solid	05/02/22 14:05	05/03/22 11:39	30 - 36"
880-14331-3	Auger Hole 2	Solid	05/02/22 14:10	05/03/22 11:39	0 - 6"
880-14331-4	Auger Hole 2	Solid	05/02/22 14:15	05/03/22 11:39	18 - 24"

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 (806) 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: 14331

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

Project Name:	Heritage C7B	Turn Around	
Project Number:	15980	Routine	<input type="checkbox"/>
P.O. Number:		Rush	
Sampler's Name:	Arvin Delgado	Due Date	

SAMPLE RECEIPT		Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wet Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Temperature (°C):	59.5.7	Thermometer ID			
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:			
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Total Containers			
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				

ANALYSIS REQUEST										Work Order Notes	

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 880-14331-1

SDG Number: 15930

Login Number: 14331

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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	

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 153038

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 153038
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	10/25/2022