



REMEDIATION WORK PLAN

**Hayhurst NM Section 35 CTB
Eddy County, New Mexico
Incident Number nAPP2302742810**

**Prepared for:
Chevron USA, Inc.
6301 Deauville Blvd
Midland, TX, 79706**

Carlsbad • Midland • San Antonio • Lubbock • Hobbs • Lafayette



SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Chevron USA, Inc (Chevron), presents the following Remediation Work Plan (RWP) detailing completed corrective actions associated with an inadvertent release of crude oil at the Hayhurst NM section 35 CTB (Site). Chevron proposes this RWP, which summarizes current corrective response efforts and details remediation objectives to rectify remaining environmental impacts.

SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit A, Section 35, Township 25 South, Range 27 East, in Eddy County, New Mexico (32.0916°, -104.1523°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (**Figure 1** in **Appendix A**).

On January 12, 2023, a Lease Automatic Custody Transfer (LACT) unit failure resulted in approximately 6.217 barrels (bbls) of crude oil to overflow onto the LACT unit skid and the adjacent production pad surface. Vacuum trucks were immediately dispatched and recovered approximately 4.5 bbls of free-standing fluids. Chevron immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on January 27, 2023, and was subsequently assigned Incident Number nAPP2302742810. **Figure 2** in **Appendix A** depicts the observed release area, hereafter referred to as the Area of Concern (AOC).

SITE CHARACTERIZATION AND CLOSURE CRITERIA

Etech characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

The closest well with available groundwater data is the New Mexico Office of State Engineer (NMOSE) well C-04371, located approximately ½-mile northwest of the Site. The well has a reported groundwater depth of 69 feet below ground surface (bgs) from 2019. Based on this measurement and findings from a regional groundwater data review, depth to groundwater at the Site is estimated to be between 51 and 100 feet bgs. The referenced well record is provided in **Appendix C**.

Based on the desktop review of the current BLM Carlsbad Field Office (CFO) karst cave potential map, this Site is located in a high potential karst area. All other potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used for the site characterization are included in **Figure 1B** and **Figure 1C** in **Appendix A**.



Based on the results from the desktop review, specifically the BLM CFO karst designation, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria [†]
Chloride	(Environmental Protection Agency) EPA 300.0	600 milligrams per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	100 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg

[†]The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

SITE ASSEMENT ASSESSMENT ACTIVITIES

On February 10, 2023, Etech personnel conducted site assessment to characterize the subject release by verifying the presence or absence of residual soil impacts within the AOC based on information provided on the Form C-141 and visual observation. Two discrete preliminary assessment soil samples (Sample Point 1 and Sample Point 2) were collected within the AOC at surface level. The locations of the preliminary soil samples are shown in **Figure 2** in **Appendix A**. Photographic documentation of site assessment activities is included in **Appendix D**.

The preliminary assessment soil samples were then placed into lab provided pre-cleaned glass jars, packaged with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Permian Basin Environmental Laboratory (PBELAB) in Midland, Texas, for analysis of COCs.

Laboratory analytical results indicated elevated TPH concentrations for both preliminary assessment soil samples. As such, further remedial action appeared warranted.

EXCAVATION AND SOIL SAMPLING ACTIVITIES

On August 11, 2023, excavation activities were performed via hand shoveling to remove residual impacts identified by laboratory analytical results, verified information provided on the Form C-141 and visual observations. Excavation activities were driven by field screening soil samples for VOCs and chloride, as previously described.

Following the removal of residual soil impacts, Etech collected 5-point composite confirmation excavation soil samples at a sampling frequency of 200 square feet from the floor (labeled as Bottom Hole) and sidewalls (labeled as North Wall, South Wall, East Wall and West Wall) of the excavation. The 5-point composite samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The soil samples were then handled and analyzed as previously described by Eurofins Environment Testing (Eurofins) in Midland, Texas. Laboratory analytical results indicated one or more elevated COC concentrations present in most excavation sidewalls and throughout the excavation floor.

On March 22, 2024, Etech resumed excavation activities to remove the residual impacts identified by laboratory analytical results. Excavation activities were driven by field screening soil samples for VOCs and chloride, as previously described by PBELAB in Midland, Texas. Following additional soil removal, composite confirmation excavation soil samples were collected from the new excavation floors and sidewalls (as denoted with a suffix of "A") handled and analyzed as previously described. The locations of the final confirmation excavation soil samples are shown in **Figure 2** in **Appendix A**.



Following remediation activities, impacted soil removed from the Site was transported to a licensed and approved New Mexico landfill under Chevron approved waste manifests.

EXCAVATION SOIL SAMPLE LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated that concentrations of COCs for all final confirmation excavation soil samples were below the applicable Site Closure Criteria, except soil sample BH13A. Laboratory analytical results for BH13A indicated chloride concentrations exceeded the applicable Site Closure Criteria within the top 1-foot bgs. Laboratory analytical results are summarized in **Table 1** included in **Appendix D**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix E**.

PROPOSED REMEDIATION WORKPLAN AND SCHEDULE

Based on the excavation soil sampling results, the following conclusions regarding the release are presented:

- Laboratory analytical results indicate residual chloride impacts remain within the vicinity of soil sampling location BH13A at 0.75 feet bgs, characterized by the concentration of 4,340 mg/kg. Impacts identified at the BH13A soil sampling location appears to be horizontally delineated by the surrounding confirmation excavation sidewall soil samples and adjacent confirmation excavation floor soil samples.
- Laboratory analytical results for concentrations of COCs for the remaining final confirmation excavation soil samples are below the applicable Site Closure Criteria.

Based on the conclusions drawn above, Chevron proposes the following remedial corrective actions:

- Based on laboratory analytical results, residual impacted soil will be excavated until concentrations of COCs are in accordance with the Site Closure Criteria or the Maximum Extent Practical (MEP). Although Chevron does not anticipate complications for the continuance of excavation activities in proximity to BH13A to Site Closure Criteria, the possibility of additional subsurface and/or surface utilities within the excavation area may restrict the excavation laterally and/or vertically. As such, residual soil impacts will be excavated to the MEP, leaving residual impacted soil in place directly beneath or adjacent to utilities on the production pad.
 - Chevron and/or a third-party operator may implement additional safety precautions above encroachment guidelines at their company's discretion for the health and safety of on-site personnel and for the structural integrity of utilities.
- Following the removal of residual impacts or excavation to the MEP, 5-point confirmation excavation soil samples will be collected from the excavation, handled, and analyzed as previously described. The excavation will then be backfilled with clean, locally sourced soil and restored to "as close to its original state" as possible.
- Upon receipt and review of confirmation excavation soil sample results, Chevron will determine the appropriate measure of corrective actions that will include one of the following:
 - Documenting the removal of impacted soil at the Site with a subsequent Closure Report detailing assessment and sampling activities, including, but not limited to backfilling the excavation with clean, locally sourced soil and restored to "as close to its original state as possible."
 - or -



- Documenting and estimating the amount of residual impacted soil to be left in place at the Site with a subsequent Deferral Request Report detailing remediation efforts and soil sampling activities.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (432) 305-6413 or joseph@etechenv.com or Erick Herrera at (432) 305-6413 or erick@etechenv.com. **Appendix G** provides correspondence and notification receipts associated with the subject release.

Sincerely,

eTECH Environmental and Safety Solutions, Inc.

A handwritten signature in black ink, appearing to read 'Erick H'.

Erick Herrera
Staff Geologist

A handwritten signature in black ink, appearing to read 'Joseph S. Hernandez'.

Joseph S. Hernandez
Senior Managing Geologist

cc: Amy Barnhill, Chevron
New Mexico Oil Conservation Division
Bureau of Land Management

Appendices:

- Appendix A:** Figure 1: Site Map
Figure 1A: Site Characterization Map – Groundwater
Figure 1B: Site Characterization Map – Surficial Receptors
Figure 1C: Site Characterization Map – Subsurface Receptors
Figure 2: Preliminary Soil Sample Locations
Figure 3: Excavation Soil Sample Locations
Figure 4: Proposed Excavation Area
- Appendix B:** Referenced Well Records



Appendix C: Photographic Log

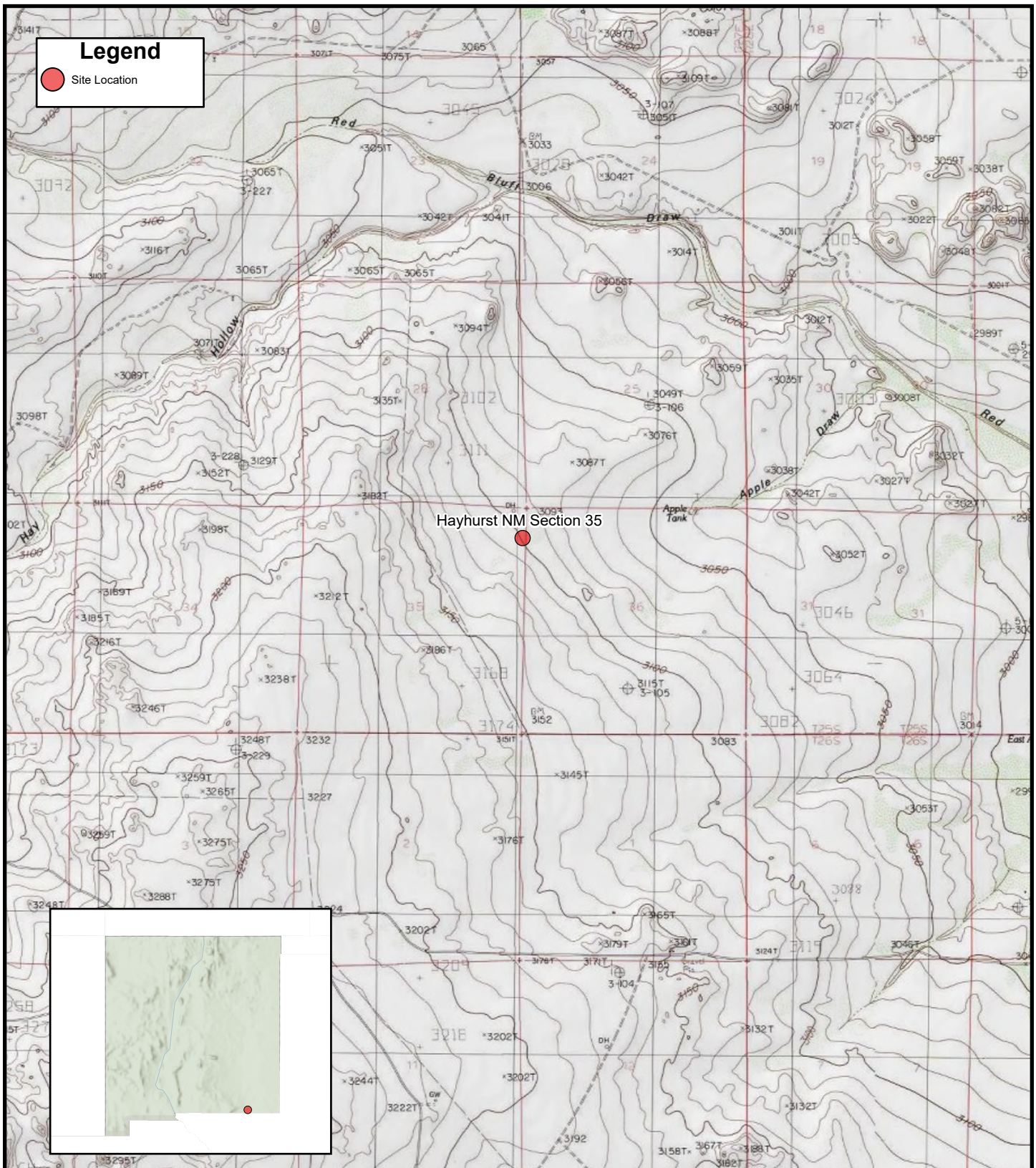
Appendix D: Tables

Appendix E: Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix F: Correspondence & Notifications

APPENDIX A

Figures



Hayhurst NM Section 35

FIGURE 1

Site Location Map

Chevron USA, Inc.
Hayhurst NM Section 35 CTB
Unit A Sec 35 T25S R27E
Eddy County, New Mexico



0 2,000 4,000 Feet

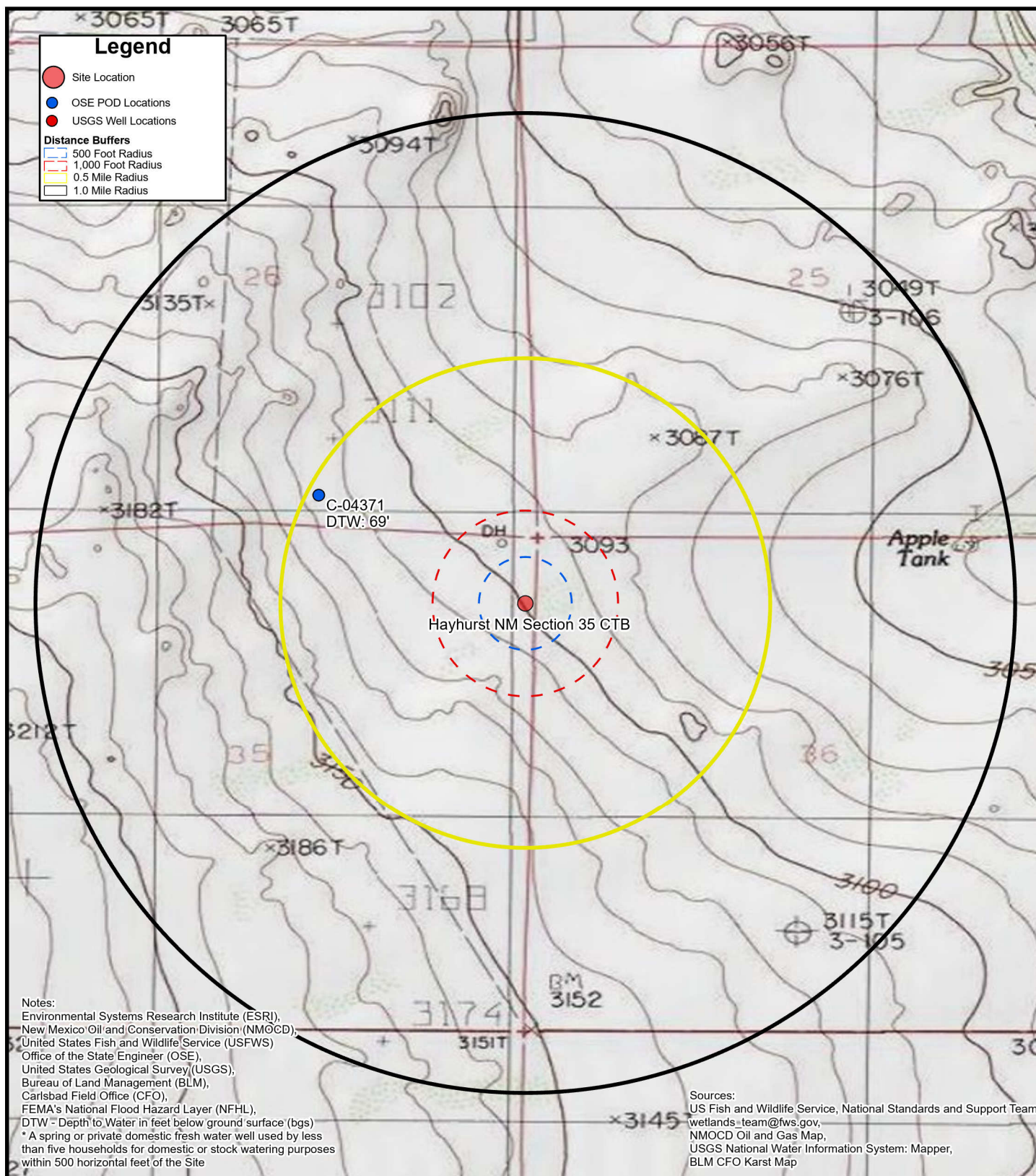
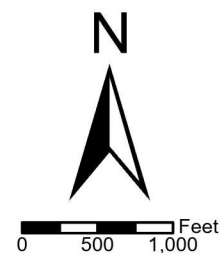


FIGURE 1A
**Site Characterization Map
 Ground Water**

Chevron USA, Inc.
 Hayhurst NM Section 35 CTB
 Unit A Sec 35 T25S R27E
 Eddy County, New Mexico



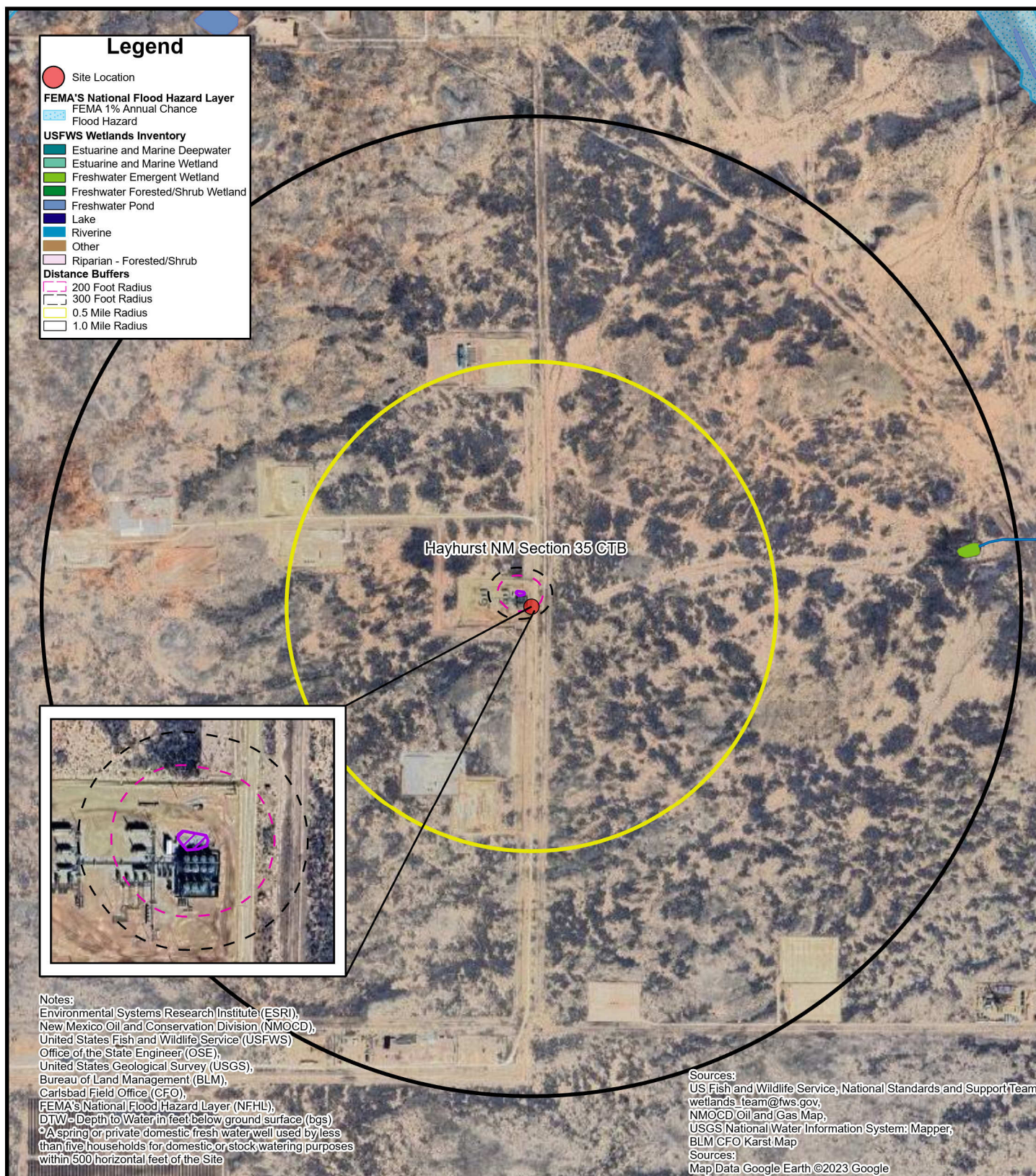
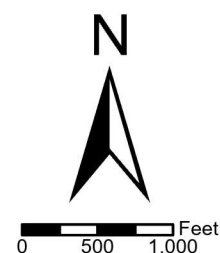


FIGURE 1B Site Characterization Map Surficial Receptors

Chevron USA, Inc.
 Hayhurst NM Section 35 CTB
 Unit A Sec 35 T25S R27E
 Eddy County, New Mexico



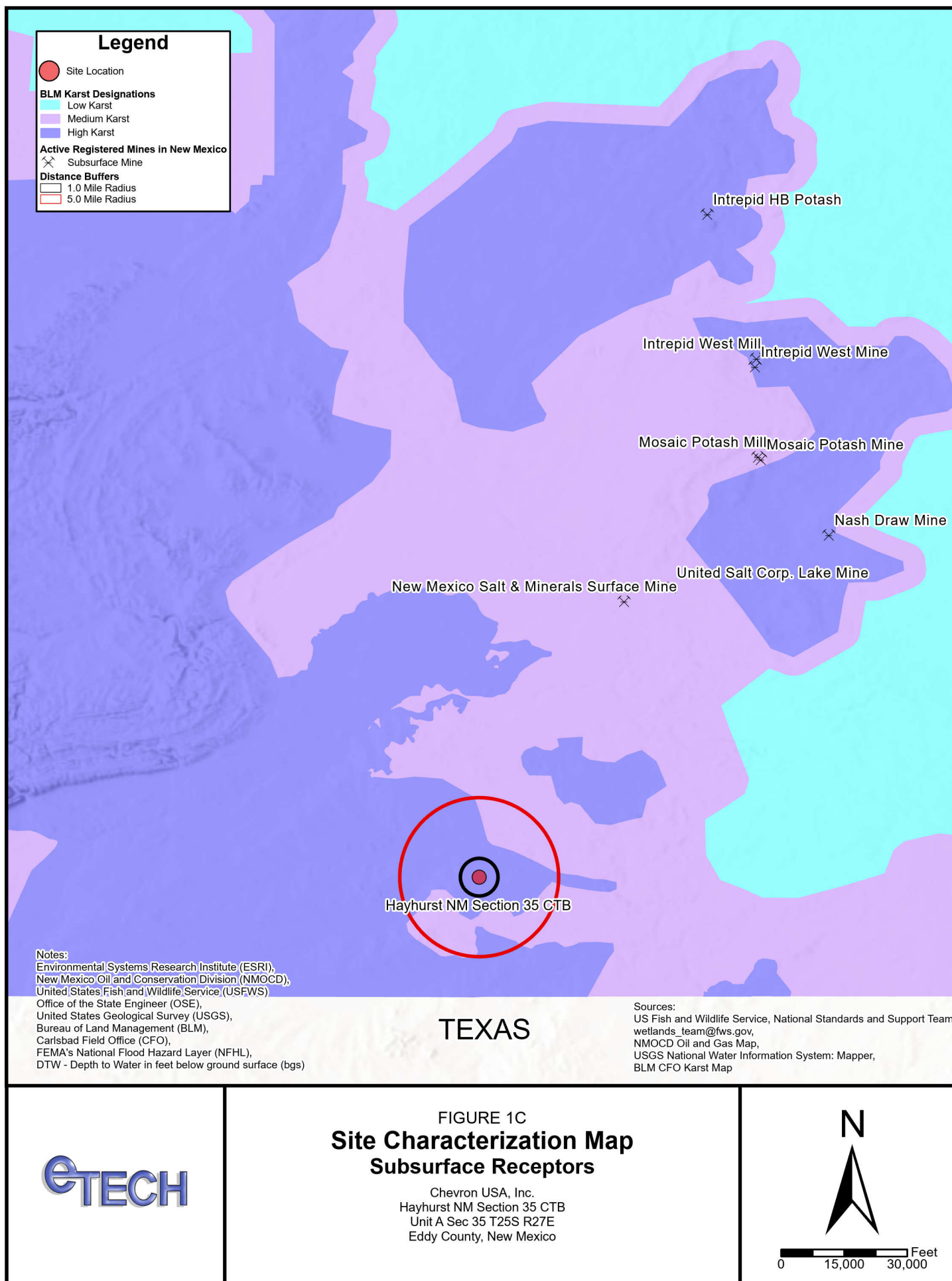
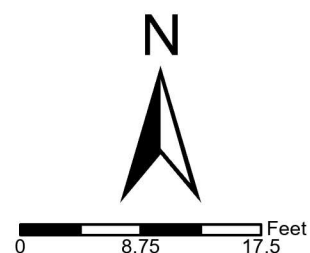




FIGURE 2

Preliminary Soil Sample Locations

Chevron USA, Inc.
 Hayhurst NM Section 35 CTB
 Unit A Sec 35 T25S R27E
 Eddy County, New Mexico



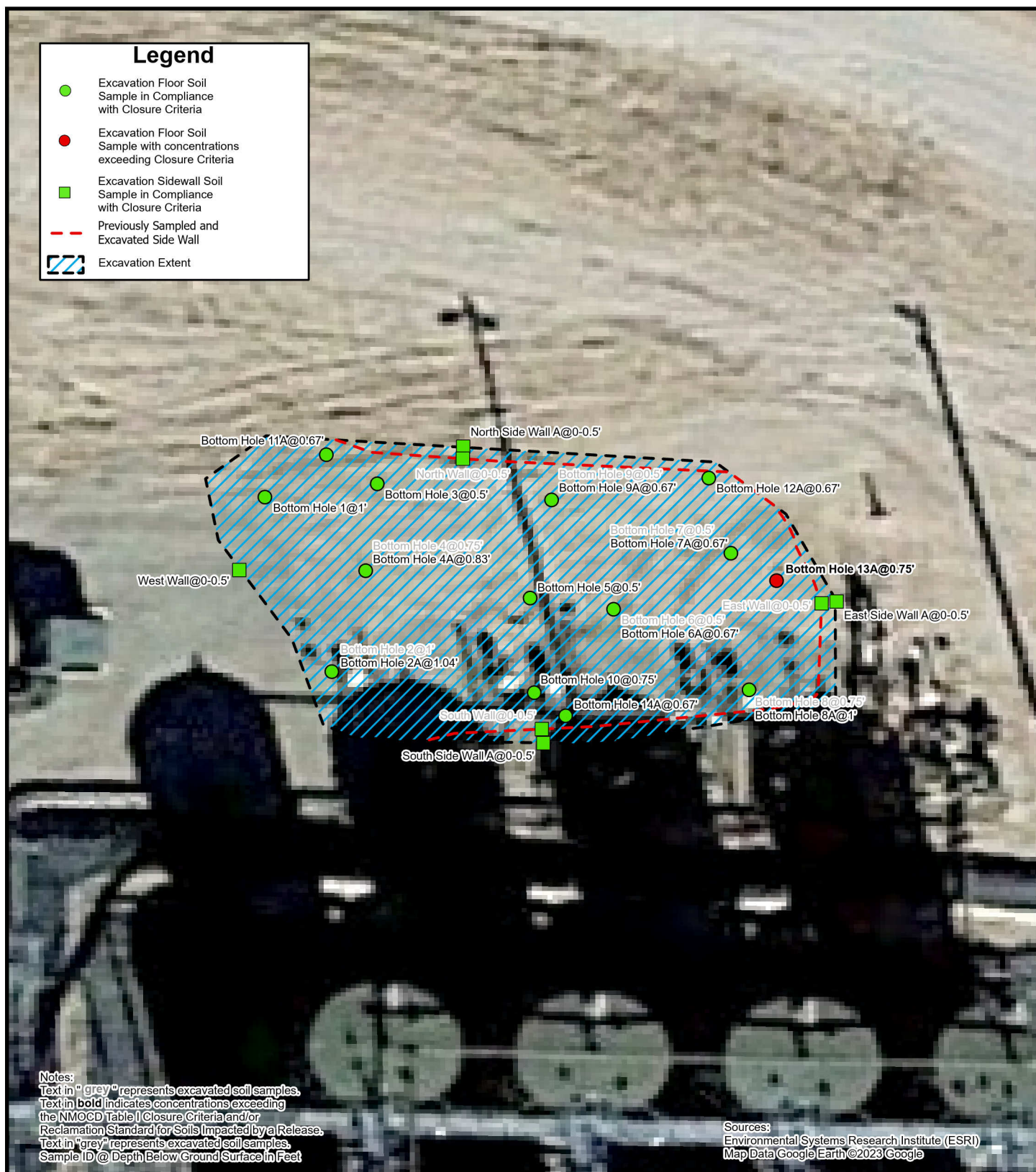


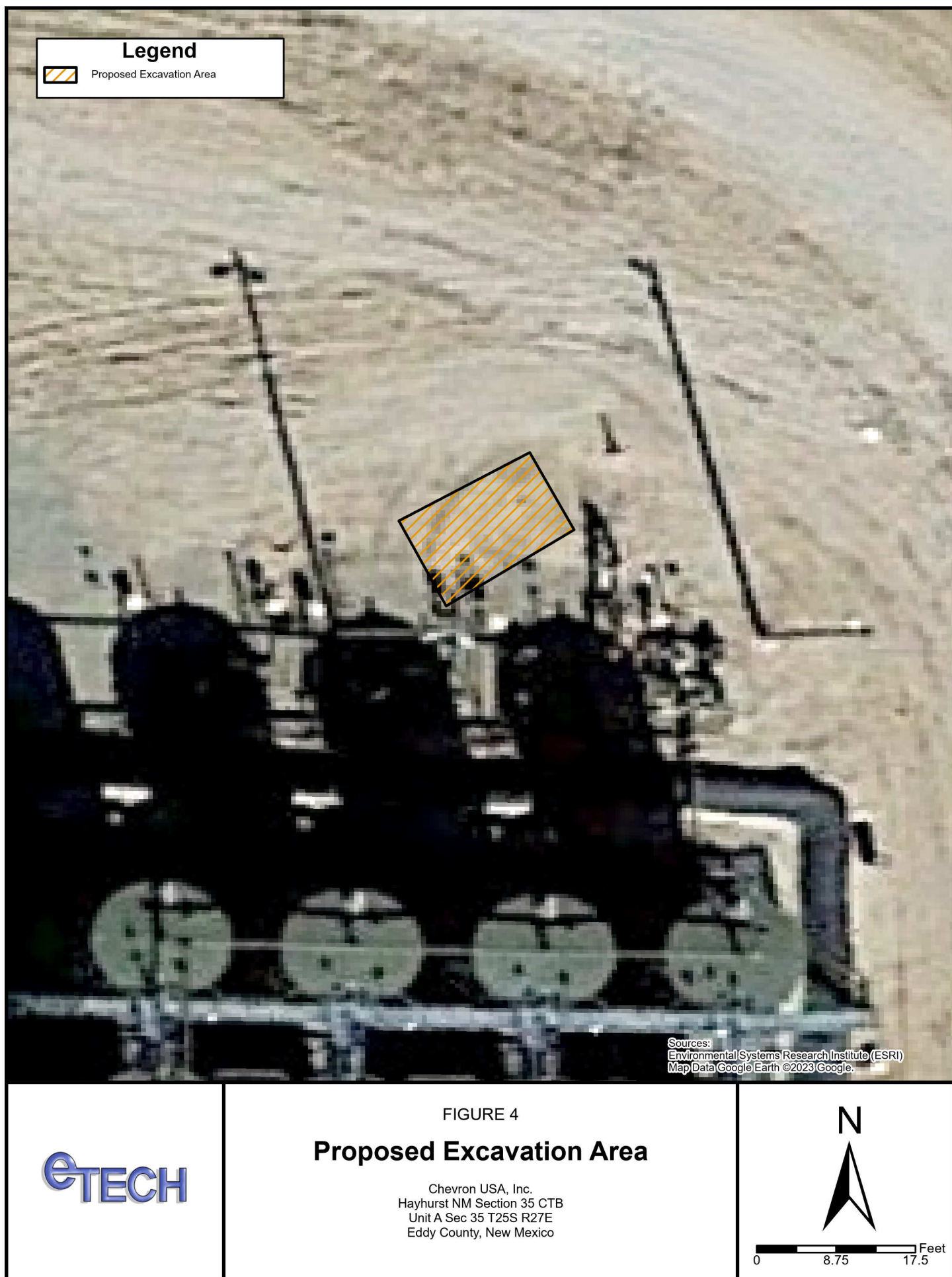
FIGURE 3

Excavation Soil Sample Locations

Chevron USA, Inc.
 Hayhurst NM Section 35 CTB
 Unit A Sec 35 T25S R27E
 Eddy County, New Mexico



0 8.75 17.5 Feet



APPENDIX B

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

2019-01-14 PM 4:03

STATION OFFICE
ROSA, TEXAS

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) N/A		WELL TAG ID NO.		OSE FILE NO(S). C-4371		<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> FIELD OFFICE TARRANT COUNTY TEXAS 79306 </div>
	WELL OWNER NAME(S) Tetra Tech Inc. on behalf of Chevron N.A. E&P Co.				PHONE (OPTIONAL) 432-687-8130		
	WELL OWNER MAILING ADDRESS 901 W. Wall St. Suite 100				CITY Midland	STATE TX	
	WELL LOCATION (FROM GPS)		DEGREES 32	MINUTES 5	SECONDS 41.91	N	
		LONGITUDE 104	9	31.92	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE							

2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1456		NAME OF LICENSED DRILLER John W. White			NAME OF WELL DRILLING COMPANY White Drilling Company, Inc.		
	DRILLING STARTED 10/17/2019		DRILLING ENDED 10/17/2019	DEPTH OF COMPLETED WELL (FT)		BORE HOLE DEPTH (FT) 100	DEPTH WATER FIRST ENCOUNTERED (FT) 69	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) 69	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	C-4371	POD NO.	1	TRN NO.	660311
LOCATION	25S.27E.26.433		WELL TAG ID NO.	PAGE 1 OF 2	

Released to Imaging: 6/17/2024 7:57:33 AM

APPENDIX C

Photographic Log

**PHOTOGRAPHIC LOG**

Chevron USA, Inc.

Hayhurst NM Section 35 CTB

Incident Number nAPP2302742810

**Photograph 1****Date: 02/10/2023**

Description: Northwest view of site assessment.

**Photograph 2****Date: 02/10/2022**

Description: Northeast view of site assessment.

**Photograph 3****Date: 08/11/2023**

Description: Northern view of excavation activities.

**Photograph 4****Date: 08/11/2023**

Description: Western view of excavation activities.

**PHOTOGRAPHIC LOG**

Chevron USA, Inc.

Hayhurst NM Section 35 CTB

Incident Number nAPP2302742810

**Photograph 5****Date: 08/11/2023**

Description: Southeastern view of excavation activities.

**Photograph 6****Date: 03/22/2024**

Description: Southeastern view of site restoration activities.

**Photograph 7****Date: 03/22/2024**

Description: Northeast view of site restoration activities.

**Photograph 8****Date: 03/22/2024**

Description: Southwest view of site restoration activities.

APPENDIX D

Tables



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Chevron USA, Inc.
Hayhurst NM Section 35 CTB
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (inches)	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)				10	50	NE	NE	NE	100	600
Preliminary Soil Samples - Incident Number nAPP2302742810										
Sample Point 1	02/10/2023	0-3	0-0.25	<0.00116	0.00301	<29.1	55.5	<29.1	55.5	7.37
Sample Point 2	02/10/2023	0-3	0-0.25	<0.00114	32.8	2,380	8,470	270	11,100	5.25
Excavation Soil Samples - Incident Number nAPP2302742810										
Bottom Hole 1	08/11/2023	12	1	<0.00200	<0.00400	<49.6	<49.6	<49.6	<49.6	334
Bottom Hole 2	08/11/2023	12	1	<0.00199	<0.00398	<50.2	64.0	<50.2	64.0	707
Bottom Hole 2A	03/22/2024	12.5	1.04	<0.00103	<0.00206	<25.8	30.6	<25.8	30.6	170
Bottom Hole 3	08/11/2023	6	0.5	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4	241
Bottom Hole 4	08/11/2023	9	0.75	<0.00200	<0.00401	<50.5	1,630	<50.5	1,630	469
Bottom Hole 4A	03/22/2024	10	0.83	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	75.4
Bottom Hole 5	08/11/2023	6	0.5	<0.00200	<0.00399	<50.0	53.7	<50.0	53.7	551
Bottom Hole 6	08/11/2023	6	0.5	<0.00199	<0.00398	<49.9	510	<49.9	510	583
Bottom Hole 6A	03/22/2024	8	0.67	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	111
Bottom Hole 7	08/11/2023	6	0.5	<0.00198	<0.00396	<50.2	<50.2	<50.2	<50.2	706
Bottom Hole 7A	03/22/2024	8	0.67	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	131
Bottom Hole 8	08/11/2023	9	0.75	<0.00199	<0.00398	<50.1	4,700	<50.1	4,700	399
Bottom Hole 8A	03/22/2024	12	1	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	60.3
Bottom Hole 9	08/11/2023	6	0.5	<0.00202	<0.00403	<50.5	295	<50.5	295	437
Bottom Hole 9A	03/22/2024	8	0.67	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	132
Bottom Hole 10	08/11/2023	9	0.75	<0.00201	<0.00402	<49.9	59.0	<49.9	59.0	306
Bottom Hole 11A	03/22/2024	8	0.67	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	107
Bottom Hole 12A	03/22/2024	8	0.67	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	231
Bottom Hole 13A	03/22/2024	8	0.67	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	4,340
Bottom Hole 14A	03/22/2024	8	0.67	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	236



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Chevron USA, Inc.
Hayhurst NM Section 35 CTB
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (inches)	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)				10	50	NE	NE	NE	100	600
North Wall	08/11/2023	0-6	0-0.5	<0.00200	<0.00401	<49.6	167	<49.6	167	803
North Side Wall A	03/22/2024	0-6	0-0.5	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	127
South Wall	08/11/2023	0-6	0-0.5	<0.00200	<0.00400	<49.5	90.8	<49.5	90.8	654
South Side Wall A	03/22/2024	0-6	0-0.5	<0.00104	<0.00208	<26.0	<26.0	<26.0	<26.0	91.8
East Wall	08/11/2023	0-6	0-0.5	<0.00199	<0.00398	<50.0	51.2	<50.0	51.2	1,710
East Side Wall A	03/22/2024	0-6	0-0.5	<0.00102	<0.00204	26.5	<25.5	<25.5	26.5	282
West Wall	08/11/2023	0-6	0-0.5	<0.00198	<0.00396	<50.3	69.4	<50.3	69.4	360

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Text in "grey" represents excavated soil samples

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard[†] for Soils Impacted by a Release[†]The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

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



Analytical Report

Prepared for:

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

Project: Hayhurst Section 35 CTB

Project Number: 17586

Location: New Mexico

Lab Order Number: 3B15006



Current Certification

Report Date: 02/22/23

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: Hayhurst Section 35 CTB Project Number: 17586 Project Manager: Blake Estep
---	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Sample Point -1 @ 0"-3"	3B15006-01	Soil	02/14/23 11:15	02-15-2023 12:36
Sample Point -2 @ 0"-3"	3B15006-02	Soil	02/14/23 11:19	02-15-2023 12:36

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Hayhurst Section 35 CTB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

Sample Point -1 @ 0"-3"
3B15006-01 (Soil)

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

Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00116	mg/kg dry	1	P3B1610	02/16/23 15:49	02/16/23 21:15	EPA 8021B	
Toluene	ND	0.00116	mg/kg dry	1	P3B1610	02/16/23 15:49	02/16/23 21:15	EPA 8021B	
Ethylbenzene	ND	0.00116	mg/kg dry	1	P3B1610	02/16/23 15:49	02/16/23 21:15	EPA 8021B	
Xylene (p/m)	0.00301	0.00233	mg/kg dry	1	P3B1610	02/16/23 15:49	02/16/23 21:15	EPA 8021B	
Xylene (o)	ND	0.00116	mg/kg dry	1	P3B1610	02/16/23 15:49	02/16/23 21:15	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	76.1 %		80-120		P3B1610	02/16/23 15:49	02/16/23 21:15	EPA 8021B	S-GC
Surrogate: 1,4-Difluorobenzene	103 %		80-120		P3B1610	02/16/23 15:49	02/16/23 21:15	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	29.1	mg/kg dry	1	P3B1804	02/18/23 09:30	02/20/23 12:23	TPH 8015M	
>C12-C28	55.5	29.1	mg/kg dry	1	P3B1804	02/18/23 09:30	02/20/23 12:23	TPH 8015M	
>C28-C35	ND	29.1	mg/kg dry	1	P3B1804	02/18/23 09:30	02/20/23 12:23	TPH 8015M	
Surrogate: 1-Chlorooctane	85.9 %		70-130		P3B1804	02/18/23 09:30	02/20/23 12:23	TPH 8015M	
Surrogate: o-Terphenyl	105 %		70-130		P3B1804	02/18/23 09:30	02/20/23 12:23	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	55.5	29.1	mg/kg dry	1	[CALC]	02/18/23 09:30	02/20/23 12:23	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	7.37	1.16	mg/kg dry	1	P3B1709	02/17/23 15:57	02/20/23 10:48	EPA 300.0	
% Moisture	14.0	0.1	%	1	P3B1603	02/16/23 10:06	02/16/23 10:10	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: Hayhurst Section 35 CTB Project Number: 17586 Project Manager: Blake Estep
---	---

Sample Point -2 @ 0"-3"
3B15006-02 (Soil)

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

Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Benzene	ND	0.00114	mg/kg dry	1	P3B1610	02/16/23 15:49	02/16/23 21:36	EPA 8021B	
Toluene	2.99	0.0568	mg/kg dry	50	P3B1610	02/16/23 15:49	02/17/23 10:05	EPA 8021B	
Ethylbenzene	2.23	0.0568	mg/kg dry	50	P3B1610	02/16/23 15:49	02/17/23 10:05	EPA 8021B	
Xylene (p/m)	20.6	0.114	mg/kg dry	50	P3B1610	02/16/23 15:49	02/17/23 10:05	EPA 8021B	
Xylene (o)	7.01	0.0568	mg/kg dry	50	P3B1610	02/16/23 15:49	02/17/23 10:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	82.3 %		80-120		P3B1610	02/16/23 15:49	02/17/23 10:05	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	113 %		80-120		P3B1610	02/16/23 15:49	02/17/23 10:05	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	2380	142	mg/kg dry	5	P3B1804	02/18/23 09:30	02/21/23 08:51	TPH 8015M	
>C12-C28	8470	142	mg/kg dry	5	P3B1804	02/18/23 09:30	02/21/23 08:51	TPH 8015M	
>C28-C35	270	28.4	mg/kg dry	1	P3B1804	02/18/23 09:30	02/21/23 08:51	TPH 8015M	
Surrogate: 1-Chlorooctane	97.2 %		70-130		P3B1804	02/18/23 09:30	02/21/23 08:51	TPH 8015M	
Surrogate: o-Terphenyl	109 %		70-130		P3B1804	02/18/23 09:30	02/21/23 08:51	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	11100	142	mg/kg dry	5	[CALC]	02/18/23 09:30	02/21/23 08:51	calc	

General Chemistry Parameters by EPA / Standard Methods									
Chloride	5.25	1.14	mg/kg dry	1	P3B1709	02/17/23 15:57	02/18/23 05:23	EPA 300.0	
% Moisture	12.0	0.1	%	1	P3B1603	02/16/23 10:06	02/16/23 10:10	ASTM D2216	

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Hayhurst Section 35 CTB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

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

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

Batch P3B1610 - *** DEFAULT PREP ***

Blank (P3B1610-BLK1)		Prepared & Analyzed: 02/16/23								
Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.127		"	0.120		106	80-120			
Surrogate: 4-Bromofluorobenzene	0.0832		"	0.120		69.3	80-120			S-GC

LCS (P3B1610-BS1)		Prepared & Analyzed: 02/16/23								
Benzene	0.0962	0.00100	mg/kg	0.100		96.2	80-120			
Toluene	0.0895	0.00100	"	0.100		89.5	80-120			
Ethylbenzene	0.0973	0.00100	"	0.100		97.3	80-120			
Xylene (p/m)	0.161	0.00200	"	0.200		80.6	80-120			
Xylene (o)	0.0910	0.00100	"	0.100		91.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.0931		"	0.120		77.6	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.138		"	0.120		115	80-120			

LCS Dup (P3B1610-BSD1)		Prepared & Analyzed: 02/16/23								
Benzene	0.105	0.00100	mg/kg	0.100		105	80-120	8.36	20	
Toluene	0.0993	0.00100	"	0.100		99.3	80-120	10.5	20	
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120	10.9	20	
Xylene (p/m)	0.175	0.00200	"	0.200		87.5	80-120	8.18	20	
Xylene (o)	0.102	0.00100	"	0.100		102	80-120	11.3	20	
Surrogate: 1,4-Difluorobenzene	0.142		"	0.120		119	80-120			
Surrogate: 4-Bromofluorobenzene	0.0976		"	0.120		81.3	80-120			

Calibration Blank (P3B1610-CCB1)		Prepared & Analyzed: 02/16/23								
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.120		"							
Xylene (p/m)	0.170		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0905		"	0.120		75.4	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.133		"	0.120		111	80-120			

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Hayhurst Section 35 CTB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

BTEX by 8021B - Quality Control

Permian Basin Environmental Lab, L.P.

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

Batch P3B1610 - *** DEFAULT PREP ***

Calibration Blank (P3B1610-CCB2)				Prepared & Analyzed: 02/16/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.110		"							
Xylene (p/m)	0.370		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.125		"	0.120		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.0931		"	0.120		77.6	80-120			S-GC

Calibration Check (P3B1610-CCV1)				Prepared & Analyzed: 02/16/23						
Benzene	0.116	0.00100	mg/kg	0.100		116	80-120			
Toluene	0.104	0.00100	"	0.100		104	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.177	0.00200	"	0.200		88.4	80-120			
Xylene (o)	0.107	0.00100	"	0.100		107	80-120			
Surrogate: 1,4-Difluorobenzene	0.140		"	0.120		116	75-125			
Surrogate: 4-Bromofluorobenzene	0.0900		"	0.120		75.0	75-125			

Calibration Check (P3B1610-CCV2)				Prepared & Analyzed: 02/16/23						
Benzene	0.106	0.00100	mg/kg	0.100		106	80-120			
Toluene	0.105	0.00100	"	0.100		105	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		92.0	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 1,4-Difluorobenzene	0.134		"	0.120		112	75-125			
Surrogate: 4-Bromofluorobenzene	0.0969		"	0.120		80.7	75-125			

Calibration Check (P3B1610-CCV3)				Prepared: 02/16/23 Analyzed: 02/17/23						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.110	0.00100	"	0.100		110	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.188	0.00200	"	0.200		94.0	80-120			
Xylene (o)	0.111	0.00100	"	0.100		111	80-120			
Surrogate: 4-Bromofluorobenzene	0.0963		"	0.120		80.2	75-125			
Surrogate: 1,4-Difluorobenzene	0.138		"	0.120		115	75-125			

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Hayhurst Section 35 CTB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

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

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

Batch P3B1610 - *** DEFAULT PREP ***

Matrix Spike (P3B1610-MS1)		Source: 3B14016-28		Prepared: 02/16/23		Analyzed: 02/17/23				
Benzene	0.0885	0.00102	mg/kg dry	0.102	ND	86.8	80-120			
Toluene	0.0889	0.00102	"	0.102	ND	87.2	80-120			
Ethylbenzene	0.0979	0.00102	"	0.102	ND	96.0	80-120			
Xylene (p/m)	0.161	0.00204	"	0.204	ND	78.8	80-120			S-GC
Xylene (o)	0.0858	0.00102	"	0.102	ND	84.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.102		"	0.122		83.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.138		"	0.122		113	80-120			

Matrix Spike Dup (P3B1610-MSD1)		Source: 3B14016-28		Prepared: 02/16/23		Analyzed: 02/17/23				
Benzene	0.0891	0.00102	mg/kg dry	0.102	ND	87.3	80-120	0.632	20	
Toluene	0.0854	0.00102	"	0.102	ND	83.7	80-120	4.03	20	
Ethylbenzene	0.0911	0.00102	"	0.102	ND	89.3	80-120	7.26	20	
Xylene (p/m)	0.147	0.00204	"	0.204	ND	72.2	80-120	8.80	20	QM-05
Xylene (o)	0.0809	0.00102	"	0.102	ND	79.3	80-120	5.89	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.0962		"	0.122		78.6	80-120			S-GC
Surrogate: 1,4-Difluorobenzene	0.140		"	0.122		114	80-120			

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: Hayhurst Section 35 CTB Project Number: 17586 Project Manager: Blake Estep
---	---

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3B1804 - TX 1005										
Blank (P3B1804-BLK1)				Prepared: 02/18/23 Analyzed: 02/20/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	86.1		"	100		86.1	70-130			
Surrogate: o-Terphenyl	50.4		"	50.0		101	70-130			
LCS (P3B1804-BS1)				Prepared: 02/18/23 Analyzed: 02/20/23						
C6-C12	854	25.0	mg/kg	1000		85.4	75-125			
>C12-C28	983	25.0	"	1000		98.3	75-125			
Surrogate: 1-Chlorooctane	122		"	100		122	70-130			
Surrogate: o-Terphenyl	61.8		"	50.0		124	70-130			
LCS Dup (P3B1804-BSD1)				Prepared: 02/18/23 Analyzed: 02/20/23						
C6-C12	846	25.0	mg/kg	1000		84.6	75-125	0.883	20	
>C12-C28	974	25.0	"	1000		97.4	75-125	0.951	20	
Surrogate: 1-Chlorooctane	120		"	100		120	70-130			
Surrogate: o-Terphenyl	61.0		"	50.0		122	70-130			
Calibration Check (P3B1804-CCV1)				Prepared: 02/18/23 Analyzed: 02/20/23						
C6-C12	465	25.0	mg/kg	500		93.1	85-115			
>C12-C28	466	25.0	"	500		93.3	85-115			
Surrogate: 1-Chlorooctane	101		"	100		101	70-130			
Surrogate: o-Terphenyl	49.6		"	50.0		99.3	70-130			
Calibration Check (P3B1804-CCV2)				Prepared: 02/18/23 Analyzed: 02/20/23						
C6-C12	445	25.0	mg/kg	500		89.0	85-115			
>C12-C28	448	25.0	"	500		89.7	85-115			
Surrogate: 1-Chlorooctane	96.4		"	100		96.4	70-130			
Surrogate: o-Terphenyl	47.8		"	50.0		95.5	70-130			

Permian Basin Environmental Lab, L.P.

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Hayhurst Section 35 CTB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

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

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

Batch P3B1804 - TX 1005

Calibration Check (P3B1804-CCV3)				Prepared: 02/18/23 Analyzed: 02/20/23						
C6-C12	444	25.0	mg/kg	500		88.8	85-115			
>C12-C28	456	25.0	"	500		91.2	85-115			
Surrogate: 1-Chlorooctane	97.3		"	100		97.3	70-130			
Surrogate: o-Terphenyl	47.8		"	50.0		95.6	70-130			
Matrix Spike (P3B1804-MS1)				Source: 3B14016-21		Prepared: 02/18/23 Analyzed: 02/20/23				
C6-C12	696	25.5	mg/kg dry	1020	ND	68.2	75-125			QM-05
>C12-C28	819	25.5	"	1020	ND	80.3	75-125			
Surrogate: 1-Chlorooctane	91.4		"	102		89.6	70-130			
Surrogate: o-Terphenyl	45.2		"	51.0		88.6	70-130			
Matrix Spike Dup (P3B1804-MSD1)				Source: 3B14016-21		Prepared: 02/18/23 Analyzed: 02/20/23				
C6-C12	696	25.5	mg/kg dry	1020	ND	68.2	75-125	0.0117	20	QM-05
>C12-C28	820	25.5	"	1020	ND	80.3	75-125	0.0436	20	
Surrogate: 1-Chlorooctane	90.9		"	102		89.1	70-130			
Surrogate: o-Terphenyl	46.4		"	51.0		90.9	70-130			

Permian Basin Environmental Lab, L.P.

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

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

Project: Hayhurst Section 35 CTB
Project Number: 17586
Project Manager: Blake Estep

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

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

Batch P3B1603 - * DEFAULT PREP *****

Blank (P3B1603-BLK1)		Prepared & Analyzed: 02/16/23								
% Moisture	ND	0.1	%							
Duplicate (P3B1603-DUP1)		Source: 3B14013-07		Prepared & Analyzed: 02/16/23						
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P3B1603-DUP2)		Source: 3B14015-07		Prepared & Analyzed: 02/16/23						
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P3B1603-DUP3)		Source: 3B14015-22		Prepared & Analyzed: 02/16/23						
% Moisture	6.0	0.1	%		6.0			0.00	20	
Duplicate (P3B1603-DUP4)		Source: 3B14016-09		Prepared & Analyzed: 02/16/23						
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P3B1603-DUP5)		Source: 3B14016-24		Prepared & Analyzed: 02/16/23						
% Moisture	3.0	0.1	%		4.0			28.6	20	R3
Duplicate (P3B1603-DUP6)		Source: 3B15004-01		Prepared & Analyzed: 02/16/23						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P3B1603-DUP7)		Source: 3B15004-07		Prepared & Analyzed: 02/16/23						
% Moisture	7.0	0.1	%		8.0			13.3	20	
Duplicate (P3B1603-DUP8)		Source: 3B15007-02		Prepared & Analyzed: 02/16/23						
% Moisture	8.0	0.1	%		8.0			0.00	20	

Batch P3B1709 - * DEFAULT PREP *****

Blank (P3B1709-BLK1)		Prepared: 02/17/23 Analyzed: 02/18/23								
Chloride	ND	1.00	mg/kg							

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Hayhurst Section 35 CTB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3B1709 - *** DEFAULT PREP ***										
LCS (P3B1709-BS1)				Prepared: 02/17/23 Analyzed: 02/18/23						
Chloride	21.4		mg/kg	20.0		107	90-110			
LCS Dup (P3B1709-BSD1)				Prepared: 02/17/23 Analyzed: 02/18/23						
Chloride	21.0		mg/kg	20.0		105	90-110	2.12	10	
Calibration Blank (P3B1709-CCB1)				Prepared & Analyzed: 02/17/23						
Chloride	-0.155		mg/kg							
Calibration Blank (P3B1709-CCB2)				Prepared: 02/17/23 Analyzed: 02/18/23						
Chloride	0.00		mg/kg							
Calibration Check (P3B1709-CCV1)				Prepared & Analyzed: 02/17/23						
Chloride	21.0		mg/kg	20.0		105	90-110			
Calibration Check (P3B1709-CCV2)				Prepared: 02/17/23 Analyzed: 02/18/23						
Chloride	21.5		mg/kg	20.0		108	90-110			
Calibration Check (P3B1709-CCV3)				Prepared: 02/17/23 Analyzed: 02/20/23						
Chloride	20.6		mg/kg	20.0		103	90-110			
Matrix Spike (P3B1709-MS1)		Source: 3B14016-26		Prepared: 02/17/23 Analyzed: 02/18/23						
Chloride	378	1.03	mg/kg dry	258	127	97.1	80-120			
Matrix Spike (P3B1709-MS2)		Source: 3B15005-02		Prepared: 02/17/23 Analyzed: 02/18/23						
Chloride	2910	10.2	mg/kg dry	510	2570	67.7	80-120			QM-05
Matrix Spike Dup (P3B1709-MSD1)		Source: 3B14016-26		Prepared: 02/17/23 Analyzed: 02/18/23						
Chloride	387	1.03	mg/kg dry	258	127	101	80-120	2.31	20	

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Hayhurst Section 35 CTB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

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

Batch P3B1709 - *** DEFAULT PREP ***

Matrix Spike Dup (P3B1709-MSD2)	Source: 3B15005-02			Prepared: 02/17/23 Analyzed: 02/18/23						
Chloride	2440	10.2	mg/kg dry	510	2570	NR	80-120	17.8	20	QM-05

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Hayhurst Section 35 CTB
Project Number: 17586
Project Manager: Blake Estep

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

R3 The RPD exceeded the acceptance limit due to sample matrix effects.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

NPBEL C Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

2/22/2023

Brent Barron, Laboratory Director/Technical Director

Permian Basin Environmental Lab, L.P.

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

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

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

Project: Hayhurst Section 35 CTB
Project Number: 17586
Project Manager: Blake Estep

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

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

PBELAB
Permian Basin Environmental Lab, L.P.
1000 Hamkin Hwy
Midland Texas 79701
Phone: 132-6861-7235

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Blake Estep

Company Name: Etech Environmental & Safety Solutions, Inc.

Company Address: P.O. Box 62228

City/State/Zip: Midland, Texas 79711

Sampler Signature: Blake E. H. For HP email: blake@etechenv.com

☒ Bill Etech

Area:

Project #: 17586 Project Loc:

Project Name: MM Hayhurst Section 35

PO#: 17586

Report Format: STANDARD: ☐ TRRP: ☐ NPDES: ☐[illegible]



Environment Testing

1

2

3

4

5

6

7

8

9

10

11

12

13

14

ANALYTICAL REPORT

PREPARED FOR

Attn: Blake Estep
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Generated 8/24/2023 10:08:42 AM

JOB DESCRIPTION

NM Hayhurst Section 35 CTB
SDG NUMBER 1786

JOB NUMBER

880-32113-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
8/24/2023 10:08:42 AM

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

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Laboratory Job ID: 880-32113-1
SDG: 1786

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	18
QC Sample Results	20
QC Association Summary	26
Lab Chronicle	30
Certification Summary	35
Method Summary	36
Sample Summary	37
Chain of Custody	38
Receipt Checklists	39

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
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.
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: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Job ID: 880-32113-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-32113-1****Receipt**

The samples were received on 8/15/2023 4:35 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 5.3°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: South Wall (880-32113-12), East Wall (880-32113-13), West Wall (880-32113-14) and (890-5106-A-1-G). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: Bottom Hole-2 (880-32113-2) and Bottom Hole-9 (880-32113-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-60871 and analytical batch 880-60869 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-60869 recovered above the upper control limit for Toluene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-60869/2).

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-60938 and analytical batch 880-60869 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-60869 recovered above the upper control limit for m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-60869/51).

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 surrogate recovery for the blank associated with preparation batch 880-60741 and analytical batch 880-60776 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-5126-A-1-D) and (890-5126-A-1-E MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: Bottom Hole-4 (880-32113-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: Bottom Hole-6 (880-32113-6), Bottom Hole-9 (880-32113-9) and Bottom Hole-10 (880-32113-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60776/20), (CCV 880-60776/31) and (CCV 880-60776/5). 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.

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Job ID: 880-32113-1 (Continued)

Laboratory: Eurofins Midland (Continued)

HPLC/IC

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

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

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Client Sample ID: Bottom Hole-1

Lab Sample ID: 880-32113-1

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/23/23 17:45	08/24/23 03:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/23/23 17:45	08/24/23 03:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/23/23 17:45	08/24/23 03:32	1
m-Xylene & p-Xylene	<0.00400	U **	0.00400		mg/Kg		08/23/23 17:45	08/24/23 03:32	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		08/23/23 17:45	08/24/23 03:32	1
Xylenes, Total	<0.00400	U **	0.00400		mg/Kg		08/23/23 17:45	08/24/23 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	08/23/23 17:45	08/24/23 03:32	1
1,4-Difluorobenzene (Surr)	73		70 - 130	08/23/23 17:45	08/24/23 03:32	1

Method: TAL SOP 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			08/24/23 10:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/23/23 11:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/21/23 14:10	08/22/23 14:06	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/21/23 14:10	08/22/23 14:06	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/21/23 14:10	08/22/23 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	08/21/23 14:10	08/22/23 14:06	1
o-Terphenyl	98		70 - 130	08/21/23 14:10	08/22/23 14:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	334		25.1		mg/Kg			08/18/23 21:39	5

Client Sample ID: Bottom Hole-2

Lab Sample ID: 880-32113-2

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/23/23 17:45	08/24/23 03:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/23/23 17:45	08/24/23 03:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/23/23 17:45	08/24/23 03:52	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		08/23/23 17:45	08/24/23 03:52	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		08/23/23 17:45	08/24/23 03:52	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		08/23/23 17:45	08/24/23 03:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	08/23/23 17:45	08/24/23 03:52	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130	08/23/23 17:45	08/24/23 03:52	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Client Sample ID: Bottom Hole-2

Lab Sample ID: 880-32113-2

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: TAL SOP 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			08/24/23 10:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.0		50.2		mg/Kg			08/23/23 11:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/21/23 14:10	08/22/23 14:29	1
Diesel Range Organics (Over C10-C28)	64.0		50.2		mg/Kg		08/21/23 14:10	08/22/23 14:29	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/21/23 14:10	08/22/23 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				08/21/23 14:10	08/22/23 14:29	1
o-Terphenyl	105		70 - 130				08/21/23 14:10	08/22/23 14:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	707		49.8		mg/Kg			08/18/23 21:59	10

Client Sample ID: Bottom Hole-3

Lab Sample ID: 880-32113-3

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/23/23 17:45	08/24/23 04:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/23/23 17:45	08/24/23 04:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/23/23 17:45	08/24/23 04:13	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		08/23/23 17:45	08/24/23 04:13	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		08/23/23 17:45	08/24/23 04:13	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		08/23/23 17:45	08/24/23 04:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				08/23/23 17:45	08/24/23 04:13	1
1,4-Difluorobenzene (Surr)	73		70 - 130				08/23/23 17:45	08/24/23 04:13	1

Method: TAL SOP 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			08/24/23 10:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/23/23 11:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/21/23 14:10	08/22/23 14:50	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/21/23 14:10	08/22/23 14:50	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Client Sample ID: Bottom Hole-3

Lab Sample ID: 880-32113-3

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/21/23 14:10	08/22/23 14:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				08/21/23 14:10	08/22/23 14:50	1
o-Terphenyl	111		70 - 130				08/21/23 14:10	08/22/23 14:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	241		24.9		mg/Kg			08/18/23 22:06	5

Client Sample ID: Bottom Hole-4

Lab Sample ID: 880-32113-4

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/23/23 17:45	08/24/23 04:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/23/23 17:45	08/24/23 04:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/23/23 17:45	08/24/23 04:33	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401		mg/Kg		08/23/23 17:45	08/24/23 04:33	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		08/23/23 17:45	08/24/23 04:33	1
Xylenes, Total	<0.00401	U **	0.00401		mg/Kg		08/23/23 17:45	08/24/23 04:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/23/23 17:45	08/24/23 04:33	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/23/23 17:45	08/24/23 04:33	1

Method: TAL SOP 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			08/24/23 10:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1630		50.5		mg/Kg			08/23/23 11:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/21/23 14:10	08/22/23 15:12	1
Diesel Range Organics (Over C10-C28)	1630		50.5		mg/Kg		08/21/23 14:10	08/22/23 15:12	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/21/23 14:10	08/22/23 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				08/21/23 14:10	08/22/23 15:12	1
o-Terphenyl	112		70 - 130				08/21/23 14:10	08/22/23 15:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	469		50.2		mg/Kg			08/18/23 22:13	10

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Client Sample ID: Bottom Hole-5

Lab Sample ID: 880-32113-5

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/23/23 17:45	08/24/23 04:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/23/23 17:45	08/24/23 04:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/23/23 17:45	08/24/23 04:53	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399		mg/Kg		08/23/23 17:45	08/24/23 04:53	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		08/23/23 17:45	08/24/23 04:53	1
Xylenes, Total	<0.00399	U **	0.00399		mg/Kg		08/23/23 17:45	08/24/23 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	08/23/23 17:45	08/24/23 04:53	1
1,4-Difluorobenzene (Surr)	76		70 - 130	08/23/23 17:45	08/24/23 04:53	1

Method: TAL SOP 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			08/24/23 10:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.7		50.0		mg/Kg			08/23/23 11:00	1

Method: SW846 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		08/21/23 14:10	08/22/23 15:55	1
Diesel Range Organics (Over C10-C28)	53.7		50.0		mg/Kg		08/21/23 14:10	08/22/23 15:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/21/23 14:10	08/22/23 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	08/21/23 14:10	08/22/23 15:55	1
o-Terphenyl	104		70 - 130	08/21/23 14:10	08/22/23 15:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	551		50.2		mg/Kg			08/18/23 22:19	10

Client Sample ID: Bottom Hole-6

Lab Sample ID: 880-32113-6

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/23/23 17:45	08/24/23 05:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/23/23 17:45	08/24/23 05:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/23/23 17:45	08/24/23 05:14	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		08/23/23 17:45	08/24/23 05:14	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		08/23/23 17:45	08/24/23 05:14	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		08/23/23 17:45	08/24/23 05:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	08/23/23 17:45	08/24/23 05:14	1
1,4-Difluorobenzene (Surr)	80		70 - 130	08/23/23 17:45	08/24/23 05:14	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Client Sample ID: Bottom Hole-6

Lab Sample ID: 880-32113-6

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: TAL SOP 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			08/24/23 10:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	510		49.9		mg/Kg			08/23/23 11:00	1

Method: SW846 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		08/21/23 14:10	08/22/23 16:17	1
Diesel Range Organics (Over C10-C28)	510		49.9		mg/Kg		08/21/23 14:10	08/22/23 16:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/21/23 14:10	08/22/23 16:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				08/21/23 14:10	08/22/23 16:17	1
o-Terphenyl	119		70 - 130				08/21/23 14:10	08/22/23 16:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	583		25.2		mg/Kg			08/18/23 22:39	5

Client Sample ID: Bottom Hole-7

Lab Sample ID: 880-32113-7

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/23/23 17:45	08/24/23 05:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/23/23 17:45	08/24/23 05:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/23/23 17:45	08/24/23 05:34	1
m-Xylene & p-Xylene	<0.00396	U **	0.00396		mg/Kg		08/23/23 17:45	08/24/23 05:34	1
o-Xylene	<0.00198	U **	0.00198		mg/Kg		08/23/23 17:45	08/24/23 05:34	1
Xylenes, Total	<0.00396	U **	0.00396		mg/Kg		08/23/23 17:45	08/24/23 05:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				08/23/23 17:45	08/24/23 05:34	1
1,4-Difluorobenzene (Surr)	75		70 - 130				08/23/23 17:45	08/24/23 05:34	1

Method: TAL SOP 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			08/24/23 10:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			08/23/23 11:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		08/21/23 14:10	08/22/23 16:39	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/21/23 14:10	08/22/23 16:39	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Client Sample ID: Bottom Hole-7
Date Collected: 08/11/23 14:53
Date Received: 08/15/23 16:35

Lab Sample ID: 880-32113-7
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/21/23 14:10	08/22/23 16:39	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	115		70 - 130				08/21/23 14:10	08/22/23 16:39	1	
o-Terphenyl	101		70 - 130				08/21/23 14:10	08/22/23 16:39	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	706		49.9		mg/Kg			08/18/23 22:46	10	

Client Sample ID: Bottom Hole-8
Date Collected: 08/11/23 14:53
Date Received: 08/15/23 16:35

Lab Sample ID: 880-32113-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/23/23 17:45	08/24/23 05:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/23/23 17:45	08/24/23 05:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/23/23 17:45	08/24/23 05:55	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398		mg/Kg		08/23/23 17:45	08/24/23 05:55	1
o-Xylene	<0.00199	U *	0.00199		mg/Kg		08/23/23 17:45	08/24/23 05:55	1
Xylenes, Total	<0.00398	U *	0.00398		mg/Kg		08/23/23 17:45	08/24/23 05:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				08/23/23 17:45	08/24/23 05:55	1
1,4-Difluorobenzene (Surr)	112		70 - 130				08/23/23 17:45	08/24/23 05:55	1
Method: TAL SOP 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			08/24/23 10:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	4700		50.1		mg/Kg			08/23/23 11:00	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/21/23 14:10	08/22/23 17:00	1	
Diesel Range Organics (Over C10-C28)	4700		50.1		mg/Kg		08/21/23 14:10	08/22/23 17:00	1	
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/21/23 14:10	08/22/23 17:00	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	126		70 - 130				08/21/23 14:10	08/22/23 17:00	1	
o-Terphenyl	101		70 - 130				08/21/23 14:10	08/22/23 17:00	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	399		24.9		mg/Kg			08/18/23 22:53	5	

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Client Sample ID: Bottom Hole-9

Lab Sample ID: 880-32113-9

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/23/23 17:45	08/24/23 06:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/23/23 17:45	08/24/23 06:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/23/23 17:45	08/24/23 06:15	1
m-Xylene & p-Xylene	<0.00403	U **	0.00403		mg/Kg		08/23/23 17:45	08/24/23 06:15	1
o-Xylene	<0.00202	U **	0.00202		mg/Kg		08/23/23 17:45	08/24/23 06:15	1
Xylenes, Total	<0.00403	U **	0.00403		mg/Kg		08/23/23 17:45	08/24/23 06:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/23/23 17:45	08/24/23 06:15	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130	08/23/23 17:45	08/24/23 06:15	1

Method: TAL SOP 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			08/24/23 10:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	295		50.5		mg/Kg			08/23/23 11:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		08/21/23 14:10	08/22/23 17:22	1
Diesel Range Organics (Over C10-C28)	295		50.5		mg/Kg		08/21/23 14:10	08/22/23 17:22	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/21/23 14:10	08/22/23 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	08/21/23 14:10	08/22/23 17:22	1
o-Terphenyl	115		70 - 130	08/21/23 14:10	08/22/23 17:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	437		49.5		mg/Kg			08/18/23 22:59	10

Client Sample ID: Bottom Hole-10

Lab Sample ID: 880-32113-10

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/23/23 17:45	08/24/23 06:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/23/23 17:45	08/24/23 06:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/23/23 17:45	08/24/23 06:36	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		08/23/23 17:45	08/24/23 06:36	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		08/23/23 17:45	08/24/23 06:36	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		08/23/23 17:45	08/24/23 06:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	08/23/23 17:45	08/24/23 06:36	1
1,4-Difluorobenzene (Surr)	75		70 - 130	08/23/23 17:45	08/24/23 06:36	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Client Sample ID: Bottom Hole-10

Lab Sample ID: 880-32113-10

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: TAL SOP 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			08/24/23 10:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.0		49.9		mg/Kg			08/23/23 11:00	1

Method: SW846 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		08/21/23 14:10	08/22/23 17:44	1
Diesel Range Organics (Over C10-C28)	59.0		49.9		mg/Kg		08/21/23 14:10	08/22/23 17:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/21/23 14:10	08/22/23 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				08/21/23 14:10	08/22/23 17:44	1
o-Terphenyl	116		70 - 130				08/21/23 14:10	08/22/23 17:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	306		25.1		mg/Kg			08/18/23 23:06	5

Client Sample ID: North Wall

Lab Sample ID: 880-32113-11

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/23/23 08:45	08/23/23 18:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/23/23 08:45	08/23/23 18:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/23/23 08:45	08/23/23 18:19	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401		mg/Kg		08/23/23 08:45	08/23/23 18:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/23/23 08:45	08/23/23 18:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/23/23 08:45	08/23/23 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				08/23/23 08:45	08/23/23 18:19	1
1,4-Difluorobenzene (Surr)	73		70 - 130				08/23/23 08:45	08/23/23 18:19	1

Method: TAL SOP 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			08/24/23 10:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	167		49.6		mg/Kg			08/23/23 11:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		08/21/23 14:10	08/22/23 18:05	1
Diesel Range Organics (Over C10-C28)	167		49.6		mg/Kg		08/21/23 14:10	08/22/23 18:05	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Client Sample ID: North Wall

Lab Sample ID: 880-32113-11

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/21/23 14:10	08/22/23 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				08/21/23 14:10	08/22/23 18:05	1
o-Terphenyl	97		70 - 130				08/21/23 14:10	08/22/23 18:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	803		49.9		mg/Kg			08/18/23 23:13	10

Client Sample ID: South Wall

Lab Sample ID: 880-32113-12

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/23/23 08:45	08/23/23 18:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/23/23 08:45	08/23/23 18:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/23/23 08:45	08/23/23 18:40	1
m-Xylene & p-Xylene	<0.00400	U *	0.00400		mg/Kg		08/23/23 08:45	08/23/23 18:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/23/23 08:45	08/23/23 18:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/23/23 08:45	08/23/23 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				08/23/23 08:45	08/23/23 18:40	1
1,4-Difluorobenzene (Surr)	56	S1-	70 - 130				08/23/23 08:45	08/23/23 18:40	1

Method: TAL SOP 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			08/24/23 10:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	90.8		49.5		mg/Kg			08/23/23 11:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		08/21/23 14:10	08/22/23 18:27	1
Diesel Range Organics (Over C10-C28)	90.8		49.5		mg/Kg		08/21/23 14:10	08/22/23 18:27	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		08/21/23 14:10	08/22/23 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				08/21/23 14:10	08/22/23 18:27	1
o-Terphenyl	112		70 - 130				08/21/23 14:10	08/22/23 18:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	654		25.0		mg/Kg			08/18/23 23:33	5

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Client Sample ID: East Wall

Lab Sample ID: 880-32113-13

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/23/23 08:45	08/23/23 19:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/23/23 08:45	08/23/23 19:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/23/23 08:45	08/23/23 19:00	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		08/23/23 08:45	08/23/23 19:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/23/23 08:45	08/23/23 19:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/23/23 08:45	08/23/23 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	08/23/23 08:45	08/23/23 19:00	1
1,4-Difluorobenzene (Surr)	59	S1-	70 - 130	08/23/23 08:45	08/23/23 19:00	1

Method: TAL SOP 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			08/24/23 10:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.2		50.0		mg/Kg			08/23/23 11:00	1

Method: SW846 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		08/21/23 14:10	08/22/23 18:49	1
Diesel Range Organics (Over C10-C28)	51.2		50.0		mg/Kg		08/21/23 14:10	08/22/23 18:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/21/23 14:10	08/22/23 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	08/21/23 14:10	08/22/23 18:49	1
o-Terphenyl	110		70 - 130	08/21/23 14:10	08/22/23 18:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1710		49.9		mg/Kg			08/18/23 23:39	10

Client Sample ID: West Wall

Lab Sample ID: 880-32113-14

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/23/23 08:45	08/23/23 19:21	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/23/23 08:45	08/23/23 19:21	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/23/23 08:45	08/23/23 19:21	1
m-Xylene & p-Xylene	<0.00396	U **	0.00396		mg/Kg		08/23/23 08:45	08/23/23 19:21	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/23/23 08:45	08/23/23 19:21	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/23/23 08:45	08/23/23 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/23/23 08:45	08/23/23 19:21	1
1,4-Difluorobenzene (Surr)	58	S1-	70 - 130	08/23/23 08:45	08/23/23 19:21	1

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Client Sample ID: West Wall
Date Collected: 08/11/23 14:53
Date Received: 08/15/23 16:35

Lab Sample ID: 880-32113-14
Matrix: Solid

Method: TAL SOP 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			08/24/23 10:35	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	69.4		50.3		mg/Kg			08/23/23 11:00	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		08/21/23 14:10	08/22/23 19:11	1	
Diesel Range Organics (Over C10-C28)	69.4		50.3		mg/Kg		08/21/23 14:10	08/22/23 19:11	1	
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/21/23 14:10	08/22/23 19:11	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	114		70 - 130				08/21/23 14:10	08/22/23 19:11	1	
o-Terphenyl	98		70 - 130				08/21/23 14:10	08/22/23 19:11	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	360		50.1		mg/Kg			08/18/23 23:59	10	

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

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)
880-31986-A-1-E MS	Matrix Spike	122	113
880-31986-A-1-G MSD	Matrix Spike Duplicate	127	120
880-32113-1	Bottom Hole-1	85	73
880-32113-2	Bottom Hole-2	112	65 S1-
880-32113-3	Bottom Hole-3	92	73
880-32113-4	Bottom Hole-4	103	92
880-32113-5	Bottom Hole-5	102	76
880-32113-6	Bottom Hole-6	106	80
880-32113-7	Bottom Hole-7	105	75
880-32113-8	Bottom Hole-8	122	112
880-32113-9	Bottom Hole-9	104	66 S1-
880-32113-10	Bottom Hole-10	98	75
880-32113-11	North Wall	82	73
880-32113-12	South Wall	101	56 S1-
880-32113-13	East Wall	102	59 S1-
880-32113-14	West Wall	99	58 S1-
890-5106-A-1-E MS	Matrix Spike	127	109
890-5106-A-1-F MSD	Matrix Spike Duplicate	127	110
LCS 880-60871/1-A	Lab Control Sample	119	110
LCS 880-60938/1-A	Lab Control Sample	121	109
LCSD 880-60871/2-A	Lab Control Sample Dup	118	114
LCSD 880-60938/2-A	Lab Control Sample Dup	122	106
MB 880-60871/5-A	Method Blank	73	96
MB 880-60938/5-A	Method Blank	73	80
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)
880-32113-1	Bottom Hole-1	112	98
880-32113-2	Bottom Hole-2	120	105
880-32113-3	Bottom Hole-3	125	111
880-32113-4	Bottom Hole-4	139 S1+	112
880-32113-5	Bottom Hole-5	120	104
880-32113-6	Bottom Hole-6	136 S1+	119
880-32113-7	Bottom Hole-7	115	101
880-32113-8	Bottom Hole-8	126	101
880-32113-9	Bottom Hole-9	135 S1+	115
880-32113-10	Bottom Hole-10	131 S1+	116
880-32113-11	North Wall	114	97
880-32113-12	South Wall	128	112
880-32113-13	East Wall	124	110
880-32113-14	West Wall	114	98
890-5126-A-1-E MS	Matrix Spike	133 S1+	104

Eurofins Midland

Surrogate Summary

Client: Etech Environmental & Safety Solutions

Job ID: 880-32113-1

Project/Site: NM Hayhurst Section 35 CTB

SDG: 1786

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-5126-A-1-F MSD	Matrix Spike Duplicate	129	101
LCS 880-60741/2-A	Lab Control Sample	107	91
LCSD 880-60741/3-A	Lab Control Sample Dup	123	106
MB 880-60741/1-A	Method Blank	187 S1+	168 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60871/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 60869							Prep Batch: 60871		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/23/23 08:45	08/23/23 12:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/23/23 08:45	08/23/23 12:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/23/23 08:45	08/23/23 12:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/23/23 08:45	08/23/23 12:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/23/23 08:45	08/23/23 12:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/23/23 08:45	08/23/23 12:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				08/23/23 08:45	08/23/23 12:07	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/23/23 08:45	08/23/23 12:07	1

Lab Sample ID: LCS 880-60871/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 60869							Prep Batch: 60871		
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene		0.100	0.1017		mg/Kg		102	70 - 130	
Toluene		0.100	0.1196		mg/Kg		120	70 - 130	
Ethylbenzene		0.100	0.1179		mg/Kg		118	70 - 130	
m-Xylene & p-Xylene		0.200	0.2633	*+	mg/Kg		132	70 - 130	
o-Xylene		0.100	0.1279		mg/Kg		128	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	119		70 - 130						
1,4-Difluorobenzene (Surr)	110		70 - 130						

Lab Sample ID: LCSD 880-60871/2-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 60869							Prep Batch: 60871			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.09507		mg/Kg		95	70 - 130	7	35
Toluene		0.100	0.1040		mg/Kg		104	70 - 130	14	35
Ethylbenzene		0.100	0.09942		mg/Kg		99	70 - 130	17	35
m-Xylene & p-Xylene		0.200	0.2191		mg/Kg		110	70 - 130	18	35
o-Xylene		0.100	0.1079		mg/Kg		108	70 - 130	17	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	118		70 - 130							
1,4-Difluorobenzene (Surr)	114		70 - 130							

Lab Sample ID: 880-31986-A-1-E MS							Client Sample ID: Matrix Spike		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 60869							Prep Batch: 60871		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08878		mg/Kg		89	70 - 130
Toluene	<0.00199	U	0.0996	0.1046		mg/Kg		105	70 - 130

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

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

Lab Sample ID: 880-31986-A-1-E MS
Matrix: Solid
Analysis Batch: 60869

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 60871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.1053		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	<0.00398	U *	0.199	0.2310		mg/Kg		116	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1126		mg/Kg		113	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	122		70 - 130						
1,4-Difluorobenzene (Surr)	113		70 - 130						

Lab Sample ID: 880-31986-A-1-G MSD
Matrix: Solid
Analysis Batch: 60869

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 60871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09959		mg/Kg		99	70 - 130	11	35
Toluene	<0.00199	U	0.100	0.1090		mg/Kg		109	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.100	0.1104		mg/Kg		110	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U *	0.200	0.2439		mg/Kg		122	70 - 130	5	35
o-Xylene	<0.00199	U	0.100	0.1189		mg/Kg		119	70 - 130	5	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	127		70 - 130								
1,4-Difluorobenzene (Surr)	120		70 - 130								

Lab Sample ID: MB 880-60938/5-A
Matrix: Solid
Analysis Batch: 60869

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 60938

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/23/23 17:45	08/23/23 22:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/23/23 17:45	08/23/23 22:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/23/23 17:45	08/23/23 22:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/23/23 17:45	08/23/23 22:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/23/23 17:45	08/23/23 22:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/23/23 17:45	08/23/23 22:44	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130				08/23/23 17:45	08/23/23 22:44	1
1,4-Difluorobenzene (Surr)	80		70 - 130				08/23/23 17:45	08/23/23 22:44	1

Lab Sample ID: LCS 880-60938/1-A
Matrix: Solid
Analysis Batch: 60869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 60938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1023		mg/Kg		102	70 - 130
Toluene	0.100	0.1241		mg/Kg		124	70 - 130
Ethylbenzene	0.100	0.1257		mg/Kg		126	70 - 130
m-Xylene & p-Xylene	0.200	0.2796	*+	mg/Kg		140	70 - 130

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

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

Lab Sample ID: LCS 880-60938/1-A

Matrix: Solid

Analysis Batch: 60869

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1363	*+	mg/Kg		136	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-60938/2-A

Matrix: Solid

Analysis Batch: 60869

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60938

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08296		mg/Kg		83	70 - 130	21	35
Toluene	0.100	0.09693		mg/Kg		97	70 - 130	25	35
Ethylbenzene	0.100	0.09971		mg/Kg		100	70 - 130	23	35
m-Xylene & p-Xylene	0.200	0.2231		mg/Kg		112	70 - 130	23	35
o-Xylene	0.100	0.1102		mg/Kg		110	70 - 130	21	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-5106-A-1-E MS

Matrix: Solid

Analysis Batch: 60869

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 60938

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08986		mg/Kg		90	70 - 130
Toluene	<0.00199	U	0.0996	0.1062		mg/Kg		107	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.1113		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	<0.00398	U *+	0.199	0.2432		mg/Kg		122	70 - 130
o-Xylene	<0.00199	U *+	0.0996	0.1213		mg/Kg		122	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-5106-A-1-F MSD

Matrix: Solid

Analysis Batch: 60869

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 60938

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.101	0.09515		mg/Kg		94	70 - 130	6	35
Toluene	<0.00199	U	0.101	0.1089		mg/Kg		108	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.101	0.1111		mg/Kg		110	70 - 130	0	35
m-Xylene & p-Xylene	<0.00398	U *+	0.202	0.2432		mg/Kg		121	70 - 130	0	35
o-Xylene	<0.00199	U *+	0.101	0.1217		mg/Kg		121	70 - 130	0	35

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

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

Lab Sample ID: 890-5106-A-1-F MSD				Client Sample ID: Matrix Spike Duplicate			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 60869				Prep Batch: 60938			
	MSD	MSD					
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	127		70 - 130				
1,4-Difluorobenzene (Surr)	110		70 - 130				

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

Lab Sample ID: MB 880-60741/1-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 60776							Prep Batch: 60741		
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/21/23 14:10	08/22/23 08:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/21/23 14:10	08/22/23 08:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/21/23 14:10	08/22/23 08:13	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	187	S1+	70 - 130				08/21/23 14:10	08/22/23 08:13	1
o-Terphenyl	168	S1+	70 - 130				08/21/23 14:10	08/22/23 08:13	1

Lab Sample ID: LCS 880-60741/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 60776					Prep Batch: 60741				
Analyte			Spike	LCS	LCS			%Rec	
			Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10			1000	938.0		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)			1000	881.7		mg/Kg		88	70 - 130

Lab Sample ID: LCSD 880-60741/3-A

Matrix: Solid

Analysis Batch: 60776

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60741

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1012		mg/Kg		101	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	995.8		mg/Kg		100	70 - 130	12	20

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

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

Lab Sample ID: 890-5126-A-1-E MS

Matrix: Solid

Analysis Batch: 60776

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 60741

	Sample	Sample	Spike	MS	MS			%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	995	1258		mg/Kg		124	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.6	U	995	1150		mg/Kg		114	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	133	S1+	70 - 130							
o-Terphenyl	104		70 - 130							

Lab Sample ID: 890-5126-A-1-F MSD

Matrix: Solid

Analysis Batch: 60776

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 60741

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	995	1241		mg/Kg		123	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.6	U	995	1117		mg/Kg		111	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	129		70 - 130								
o-Terphenyl	101		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-60360/1-A

Matrix: Solid

Analysis Batch: 60617

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			08/18/23 21:19	1

Lab Sample ID: LCS 880-60360/2-A

Matrix: Solid

Analysis Batch: 60617

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Chloride	250	258.3		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-60360/3-A

Matrix: Solid

Analysis Batch: 60617

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	RPD
							Limits		Limit
Chloride	250	258.8		mg/Kg		104	90 - 110	0	20

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-32113-1 MS											Client Sample ID: Bottom Hole-1	
Matrix: Solid											Prep Type: Soluble	
Analysis Batch: 60617												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	334		1250	1625		mg/Kg		103	90 - 110			

Lab Sample ID: 880-32113-1 MSD											Client Sample ID: Bottom Hole-1	
Matrix: Solid											Prep Type: Soluble	
Analysis Batch: 60617												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	334		1250	1634		mg/Kg		104	90 - 110	1	20	

Lab Sample ID: 880-32113-11 MS											Client Sample ID: North Wall	
Matrix: Solid											Prep Type: Soluble	
Analysis Batch: 60617												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	803		2500	3355		mg/Kg		102	90 - 110			

Lab Sample ID: 880-32113-11 MSD											Client Sample ID: North Wall	
Matrix: Solid											Prep Type: Soluble	
Analysis Batch: 60617												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	803		2500	3362		mg/Kg		103	90 - 110	0	20	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

GC VOA

Analysis Batch: 60869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32113-1	Bottom Hole-1	Total/NA	Solid	8021B	60938
880-32113-2	Bottom Hole-2	Total/NA	Solid	8021B	60938
880-32113-3	Bottom Hole-3	Total/NA	Solid	8021B	60938
880-32113-4	Bottom Hole-4	Total/NA	Solid	8021B	60938
880-32113-5	Bottom Hole-5	Total/NA	Solid	8021B	60938
880-32113-6	Bottom Hole-6	Total/NA	Solid	8021B	60938
880-32113-7	Bottom Hole-7	Total/NA	Solid	8021B	60938
880-32113-8	Bottom Hole-8	Total/NA	Solid	8021B	60938
880-32113-9	Bottom Hole-9	Total/NA	Solid	8021B	60938
880-32113-10	Bottom Hole-10	Total/NA	Solid	8021B	60938
880-32113-11	North Wall	Total/NA	Solid	8021B	60871
880-32113-12	South Wall	Total/NA	Solid	8021B	60871
880-32113-13	East Wall	Total/NA	Solid	8021B	60871
880-32113-14	West Wall	Total/NA	Solid	8021B	60871
MB 880-60871/5-A	Method Blank	Total/NA	Solid	8021B	60871
MB 880-60938/5-A	Method Blank	Total/NA	Solid	8021B	60938
LCS 880-60871/1-A	Lab Control Sample	Total/NA	Solid	8021B	60871
LCS 880-60938/1-A	Lab Control Sample	Total/NA	Solid	8021B	60938
LCSD 880-60871/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60871
LCSD 880-60938/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60938
880-31986-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	60871
880-31986-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	60871
890-5106-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	60938
890-5106-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	60938

Prep Batch: 60871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32113-11	North Wall	Total/NA	Solid	5035	
880-32113-12	South Wall	Total/NA	Solid	5035	
880-32113-13	East Wall	Total/NA	Solid	5035	
880-32113-14	West Wall	Total/NA	Solid	5035	
MB 880-60871/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60871/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60871/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-31986-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-31986-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 60938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32113-1	Bottom Hole-1	Total/NA	Solid	5035	
880-32113-2	Bottom Hole-2	Total/NA	Solid	5035	
880-32113-3	Bottom Hole-3	Total/NA	Solid	5035	
880-32113-4	Bottom Hole-4	Total/NA	Solid	5035	
880-32113-5	Bottom Hole-5	Total/NA	Solid	5035	
880-32113-6	Bottom Hole-6	Total/NA	Solid	5035	
880-32113-7	Bottom Hole-7	Total/NA	Solid	5035	
880-32113-8	Bottom Hole-8	Total/NA	Solid	5035	
880-32113-9	Bottom Hole-9	Total/NA	Solid	5035	
880-32113-10	Bottom Hole-10	Total/NA	Solid	5035	
MB 880-60938/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60938/1-A	Lab Control Sample	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

GC VOA (Continued)

Prep Batch: 60938 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-60938/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5106-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-5106-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 60979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32113-1	Bottom Hole-1	Total/NA	Solid	Total BTEX	
880-32113-2	Bottom Hole-2	Total/NA	Solid	Total BTEX	
880-32113-3	Bottom Hole-3	Total/NA	Solid	Total BTEX	
880-32113-4	Bottom Hole-4	Total/NA	Solid	Total BTEX	
880-32113-5	Bottom Hole-5	Total/NA	Solid	Total BTEX	
880-32113-6	Bottom Hole-6	Total/NA	Solid	Total BTEX	
880-32113-7	Bottom Hole-7	Total/NA	Solid	Total BTEX	
880-32113-8	Bottom Hole-8	Total/NA	Solid	Total BTEX	
880-32113-9	Bottom Hole-9	Total/NA	Solid	Total BTEX	
880-32113-10	Bottom Hole-10	Total/NA	Solid	Total BTEX	
880-32113-11	North Wall	Total/NA	Solid	Total BTEX	
880-32113-12	South Wall	Total/NA	Solid	Total BTEX	
880-32113-13	East Wall	Total/NA	Solid	Total BTEX	
880-32113-14	West Wall	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 60741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32113-1	Bottom Hole-1	Total/NA	Solid	8015NM Prep	
880-32113-2	Bottom Hole-2	Total/NA	Solid	8015NM Prep	
880-32113-3	Bottom Hole-3	Total/NA	Solid	8015NM Prep	
880-32113-4	Bottom Hole-4	Total/NA	Solid	8015NM Prep	
880-32113-5	Bottom Hole-5	Total/NA	Solid	8015NM Prep	
880-32113-6	Bottom Hole-6	Total/NA	Solid	8015NM Prep	
880-32113-7	Bottom Hole-7	Total/NA	Solid	8015NM Prep	
880-32113-8	Bottom Hole-8	Total/NA	Solid	8015NM Prep	
880-32113-9	Bottom Hole-9	Total/NA	Solid	8015NM Prep	
880-32113-10	Bottom Hole-10	Total/NA	Solid	8015NM Prep	
880-32113-11	North Wall	Total/NA	Solid	8015NM Prep	
880-32113-12	South Wall	Total/NA	Solid	8015NM Prep	
880-32113-13	East Wall	Total/NA	Solid	8015NM Prep	
880-32113-14	West Wall	Total/NA	Solid	8015NM Prep	
MB 880-60741/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60741/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60741/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5126-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5126-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 60776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32113-1	Bottom Hole-1	Total/NA	Solid	8015B NM	60741
880-32113-2	Bottom Hole-2	Total/NA	Solid	8015B NM	60741
880-32113-3	Bottom Hole-3	Total/NA	Solid	8015B NM	60741
880-32113-4	Bottom Hole-4	Total/NA	Solid	8015B NM	60741

Eurofins Midland

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

GC Semi VOA (Continued)

Analysis Batch: 60776 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32113-5	Bottom Hole-5	Total/NA	Solid	8015B NM	60741
880-32113-6	Bottom Hole-6	Total/NA	Solid	8015B NM	60741
880-32113-7	Bottom Hole-7	Total/NA	Solid	8015B NM	60741
880-32113-8	Bottom Hole-8	Total/NA	Solid	8015B NM	60741
880-32113-9	Bottom Hole-9	Total/NA	Solid	8015B NM	60741
880-32113-10	Bottom Hole-10	Total/NA	Solid	8015B NM	60741
880-32113-11	North Wall	Total/NA	Solid	8015B NM	60741
880-32113-12	South Wall	Total/NA	Solid	8015B NM	60741
880-32113-13	East Wall	Total/NA	Solid	8015B NM	60741
880-32113-14	West Wall	Total/NA	Solid	8015B NM	60741
MB 880-60741/1-A	Method Blank	Total/NA	Solid	8015B NM	60741
LCS 880-60741/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60741
LCSD 880-60741/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60741
890-5126-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	60741
890-5126-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	60741

Analysis Batch: 60897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32113-1	Bottom Hole-1	Total/NA	Solid	8015 NM	
880-32113-2	Bottom Hole-2	Total/NA	Solid	8015 NM	
880-32113-3	Bottom Hole-3	Total/NA	Solid	8015 NM	
880-32113-4	Bottom Hole-4	Total/NA	Solid	8015 NM	
880-32113-5	Bottom Hole-5	Total/NA	Solid	8015 NM	
880-32113-6	Bottom Hole-6	Total/NA	Solid	8015 NM	
880-32113-7	Bottom Hole-7	Total/NA	Solid	8015 NM	
880-32113-8	Bottom Hole-8	Total/NA	Solid	8015 NM	
880-32113-9	Bottom Hole-9	Total/NA	Solid	8015 NM	
880-32113-10	Bottom Hole-10	Total/NA	Solid	8015 NM	
880-32113-11	North Wall	Total/NA	Solid	8015 NM	
880-32113-12	South Wall	Total/NA	Solid	8015 NM	
880-32113-13	East Wall	Total/NA	Solid	8015 NM	
880-32113-14	West Wall	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 60360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32113-1	Bottom Hole-1	Soluble	Solid	DI Leach	
880-32113-2	Bottom Hole-2	Soluble	Solid	DI Leach	
880-32113-3	Bottom Hole-3	Soluble	Solid	DI Leach	
880-32113-4	Bottom Hole-4	Soluble	Solid	DI Leach	
880-32113-5	Bottom Hole-5	Soluble	Solid	DI Leach	
880-32113-6	Bottom Hole-6	Soluble	Solid	DI Leach	
880-32113-7	Bottom Hole-7	Soluble	Solid	DI Leach	
880-32113-8	Bottom Hole-8	Soluble	Solid	DI Leach	
880-32113-9	Bottom Hole-9	Soluble	Solid	DI Leach	
880-32113-10	Bottom Hole-10	Soluble	Solid	DI Leach	
880-32113-11	North Wall	Soluble	Solid	DI Leach	
880-32113-12	South Wall	Soluble	Solid	DI Leach	
880-32113-13	East Wall	Soluble	Solid	DI Leach	
880-32113-14	West Wall	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

HPLC/IC (Continued)

Leach Batch: 60360 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60360/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60360/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60360/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32113-1 MS	Bottom Hole-1	Soluble	Solid	DI Leach	
880-32113-1 MSD	Bottom Hole-1	Soluble	Solid	DI Leach	
880-32113-11 MS	North Wall	Soluble	Solid	DI Leach	
880-32113-11 MSD	North Wall	Soluble	Solid	DI Leach	

Analysis Batch: 60617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32113-1	Bottom Hole-1	Soluble	Solid	300.0	60360
880-32113-2	Bottom Hole-2	Soluble	Solid	300.0	60360
880-32113-3	Bottom Hole-3	Soluble	Solid	300.0	60360
880-32113-4	Bottom Hole-4	Soluble	Solid	300.0	60360
880-32113-5	Bottom Hole-5	Soluble	Solid	300.0	60360
880-32113-6	Bottom Hole-6	Soluble	Solid	300.0	60360
880-32113-7	Bottom Hole-7	Soluble	Solid	300.0	60360
880-32113-8	Bottom Hole-8	Soluble	Solid	300.0	60360
880-32113-9	Bottom Hole-9	Soluble	Solid	300.0	60360
880-32113-10	Bottom Hole-10	Soluble	Solid	300.0	60360
880-32113-11	North Wall	Soluble	Solid	300.0	60360
880-32113-12	South Wall	Soluble	Solid	300.0	60360
880-32113-13	East Wall	Soluble	Solid	300.0	60360
880-32113-14	West Wall	Soluble	Solid	300.0	60360
MB 880-60360/1-A	Method Blank	Soluble	Solid	300.0	60360
LCS 880-60360/2-A	Lab Control Sample	Soluble	Solid	300.0	60360
LCSD 880-60360/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60360
880-32113-1 MS	Bottom Hole-1	Soluble	Solid	300.0	60360
880-32113-1 MSD	Bottom Hole-1	Soluble	Solid	300.0	60360
880-32113-11 MS	North Wall	Soluble	Solid	300.0	60360
880-32113-11 MSD	North Wall	Soluble	Solid	300.0	60360

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Client Sample ID: Bottom Hole-1
Date Collected: 08/11/23 14:53
Date Received: 08/15/23 16:35

Lab Sample ID: 880-32113-1
Matrix: Solid

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	60938	08/23/23 17:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60869	08/24/23 03:32	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60979	08/24/23 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			60897	08/23/23 11:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	60741	08/21/23 14:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60776	08/22/23 14:06	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	60360	08/16/23 09:31	SMC	EET MID
Soluble	Analysis	300.0		5			60617	08/18/23 21:39	CH	EET MID

Client Sample ID: Bottom Hole-2
Date Collected: 08/11/23 14:53
Date Received: 08/15/23 16:35

Lab Sample ID: 880-32113-2
Matrix: Solid

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	60938	08/23/23 17:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60869	08/24/23 03:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60979	08/24/23 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			60897	08/23/23 11:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	60741	08/21/23 14:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60776	08/22/23 14:29	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	60360	08/16/23 09:31	SMC	EET MID
Soluble	Analysis	300.0		10			60617	08/18/23 21:59	CH	EET MID

Client Sample ID: Bottom Hole-3
Date Collected: 08/11/23 14:53
Date Received: 08/15/23 16:35

Lab Sample ID: 880-32113-3
Matrix: Solid

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	60938	08/23/23 17:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60869	08/24/23 04:13	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60979	08/24/23 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			60897	08/23/23 11:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60741	08/21/23 14:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60776	08/22/23 14:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	60360	08/16/23 09:31	SMC	EET MID
Soluble	Analysis	300.0		5			60617	08/18/23 22:06	CH	EET MID

Client Sample ID: Bottom Hole-4
Date Collected: 08/11/23 14:53
Date Received: 08/15/23 16:35

Lab Sample ID: 880-32113-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	60938	08/23/23 17:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60869	08/24/23 04:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60979	08/24/23 10:35	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Client Sample ID: Bottom Hole-4

Lab Sample ID: 880-32113-4

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

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			60897	08/23/23 11:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60741	08/21/23 14:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60776	08/22/23 15:12	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	60360	08/16/23 09:31	SMC	EET MID
Soluble	Analysis	300.0		10			60617	08/18/23 22:13	CH	EET MID

Client Sample ID: Bottom Hole-5

Lab Sample ID: 880-32113-5

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

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	60938	08/23/23 17:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60869	08/24/23 04:53	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60979	08/24/23 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			60897	08/23/23 11:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	60741	08/21/23 14:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60776	08/22/23 15:55	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	60360	08/16/23 09:31	SMC	EET MID
Soluble	Analysis	300.0		10			60617	08/18/23 22:19	CH	EET MID

Client Sample ID: Bottom Hole-6

Lab Sample ID: 880-32113-6

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	60938	08/23/23 17:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60869	08/24/23 05:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60979	08/24/23 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			60897	08/23/23 11:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	60741	08/21/23 14:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60776	08/22/23 16:17	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	60360	08/16/23 09:31	SMC	EET MID
Soluble	Analysis	300.0		5			60617	08/18/23 22:39	CH	EET MID

Client Sample ID: Bottom Hole-7

Lab Sample ID: 880-32113-7

Date Collected: 08/11/23 14:53

Matrix: Solid

Date Received: 08/15/23 16:35

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	60938	08/23/23 17:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60869	08/24/23 05:34	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60979	08/24/23 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			60897	08/23/23 11:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	60741	08/21/23 14:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60776	08/22/23 16:39	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Client Sample ID: Bottom Hole-7
Date Collected: 08/11/23 14:53
Date Received: 08/15/23 16:35

Lab Sample ID: 880-32113-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	60360	08/16/23 09:31	SMC	EET MID
Soluble	Analysis	300.0		10			60617	08/18/23 22:46	CH	EET MID

Client Sample ID: Bottom Hole-8
Date Collected: 08/11/23 14:53
Date Received: 08/15/23 16:35

Lab Sample ID: 880-32113-8
Matrix: Solid

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	60938	08/23/23 17:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60869	08/24/23 05:55	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60979	08/24/23 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			60897	08/23/23 11:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	60741	08/21/23 14:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60776	08/22/23 17:00	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	60360	08/16/23 09:31	SMC	EET MID
Soluble	Analysis	300.0		5			60617	08/18/23 22:53	CH	EET MID

Client Sample ID: Bottom Hole-9
Date Collected: 08/11/23 14:53
Date Received: 08/15/23 16:35

Lab Sample ID: 880-32113-9
Matrix: Solid

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	60938	08/23/23 17:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60869	08/24/23 06:15	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60979	08/24/23 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			60897	08/23/23 11:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	60741	08/21/23 14:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60776	08/22/23 17:22	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	60360	08/16/23 09:31	SMC	EET MID
Soluble	Analysis	300.0		10			60617	08/18/23 22:59	CH	EET MID

Client Sample ID: Bottom Hole-10
Date Collected: 08/11/23 14:53
Date Received: 08/15/23 16:35

Lab Sample ID: 880-32113-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	60938	08/23/23 17:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60869	08/24/23 06:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60979	08/24/23 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			60897	08/23/23 11:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	60741	08/21/23 14:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60776	08/22/23 17:44	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	60360	08/16/23 09:31	SMC	EET MID
Soluble	Analysis	300.0		5			60617	08/18/23 23:06	CH	EET MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Client Sample ID: North Wall
Date Collected: 08/11/23 14:53
Date Received: 08/15/23 16:35

Lab Sample ID: 880-32113-11
Matrix: Solid

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	60871	08/23/23 08:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60869	08/23/23 18:19	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60979	08/24/23 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			60897	08/23/23 11:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	60741	08/21/23 14:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60776	08/22/23 18:05	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	60360	08/16/23 09:31	SMC	EET MID
Soluble	Analysis	300.0		10			60617	08/18/23 23:13	CH	EET MID

Client Sample ID: South Wall
Date Collected: 08/11/23 14:53
Date Received: 08/15/23 16:35

Lab Sample ID: 880-32113-12
Matrix: Solid

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	60871	08/23/23 08:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60869	08/23/23 18:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60979	08/24/23 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			60897	08/23/23 11:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	60741	08/21/23 14:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60776	08/22/23 18:27	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	60360	08/16/23 09:31	SMC	EET MID
Soluble	Analysis	300.0		5			60617	08/18/23 23:33	CH	EET MID

Client Sample ID: East Wall
Date Collected: 08/11/23 14:53
Date Received: 08/15/23 16:35

Lab Sample ID: 880-32113-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	60871	08/23/23 08:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60869	08/23/23 19:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60979	08/24/23 10:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			60897	08/23/23 11:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	60741	08/21/23 14:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60776	08/22/23 18:49	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	60360	08/16/23 09:31	SMC	EET MID
Soluble	Analysis	300.0		10			60617	08/18/23 23:39	CH	EET MID

Client Sample ID: West Wall
Date Collected: 08/11/23 14:53
Date Received: 08/15/23 16:35

Lab Sample ID: 880-32113-14
Matrix: Solid

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	60871	08/23/23 08:45	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60869	08/23/23 19:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			60979	08/24/23 10:35	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Client Sample ID: West Wall
Date Collected: 08/11/23 14:53
Date Received: 08/15/23 16:35

Lab Sample ID: 880-32113-14
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			60897	08/23/23 11:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	60741	08/21/23 14:10	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60776	08/22/23 19:11	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	60360	08/16/23 09:31	SMC	EET MID
Soluble	Analysis	300.0		10			60617	08/18/23 23:59	CH	EET MID

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

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	T104704400-23-26	06-30-24

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: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- 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:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: NM Hayhurst Section 35 CTB

Job ID: 880-32113-1
SDG: 1786

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-32113-1	Bottom Hole-1	Solid	08/11/23 14:53	08/15/23 16:35
880-32113-2	Bottom Hole-2	Solid	08/11/23 14:53	08/15/23 16:35
880-32113-3	Bottom Hole-3	Solid	08/11/23 14:53	08/15/23 16:35
880-32113-4	Bottom Hole-4	Solid	08/11/23 14:53	08/15/23 16:35
880-32113-5	Bottom Hole-5	Solid	08/11/23 14:53	08/15/23 16:35
880-32113-6	Bottom Hole-6	Solid	08/11/23 14:53	08/15/23 16:35
880-32113-7	Bottom Hole-7	Solid	08/11/23 14:53	08/15/23 16:35
880-32113-8	Bottom Hole-8	Solid	08/11/23 14:53	08/15/23 16:35
880-32113-9	Bottom Hole-9	Solid	08/11/23 14:53	08/15/23 16:35
880-32113-10	Bottom Hole-10	Solid	08/11/23 14:53	08/15/23 16:35
880-32113-11	North Wall	Solid	08/11/23 14:53	08/15/23 16:35
880-32113-12	South Wall	Solid	08/11/23 14:53	08/15/23 16:35
880-32113-13	East Wall	Solid	08/11/23 14:53	08/15/23 16:35
880-32113-14	West Wall	Solid	08/11/23 14:53	08/15/23 16:35

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

~~PRIVAT~~
Permian Basin Environmental Lab., L.P.
1400 Hankin Hwy.
Midland, Texas 79701
Phone: 132-6086-7235

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: BLAKE ESTEP

Company Name: Etech Environmental & Safety Solutions, Inc.

Company Address: P.O. Box 62228

City/State/Zip: Midland, Texas 79711

Sampler Signature: _____ email: _____

Dir@etechenv.com

Project Name: *VM Highway Section 35 C-10*
 Project #: *17586* Project Loc: _____
 Area: _____ PO#: *17586*

PO#: 17586

☒ Bill EtechReport Format: STANDARD ☒ TRIP ☐ NPDES ☐
Analyze For:

Analyze For:

[illegible]

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 880-32113-1

SDG Number: 1786

Login Number: 32113

List Source: Eurofins Midland

List Number: 1

Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	True	
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").	True	

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



Analytical Report Rev. 1

Prepared for:

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

Project: NM Hayhurst Sect. 35 C TB

Project Number: 17586

Location: New Mexico

Lab Order Number: 4C25010



Current Certification

Report Date: 05/10/24

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: NM Hayhurst Sect. 35 C TB Project Number: 17586 Project Manager: Blake Estep
---	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottom Hole - 2A @ 12.5"	4C25010-01	Soil	03/22/24 12:00	03-25-2024 15:52
Bottom Hole - 4A @ 10"	4C25010-02	Soil	03/22/24 12:02	03-25-2024 15:52
Bottom Hole - 6A @ 8"	4C25010-03	Soil	03/22/24 12:04	03-25-2024 15:52
Bottom Hole - 7A @ 8"	4C25010-04	Soil	03/22/24 12:06	03-25-2024 15:52
Bottom Hole - 8A @ 12"	4C25010-05	Soil	03/22/24 12:08	03-25-2024 15:52
Bottom Hole - 9A @ 8"	4C25010-06	Soil	03/22/24 12:10	03-25-2024 15:52
Bottom Hole - 11A @ 8"	4C25010-07	Soil	03/22/24 12:12	03-25-2024 15:52
Bottom Hole 12A @ 8"	4C25010-08	Soil	03/22/24 12:14	03-25-2024 15:52
Bottom Hole - 13A @ 8"	4C25010-09	Soil	03/22/24 12:16	03-25-2024 15:52
Bottom Hole - 14A @ 8"	4C25010-10	Soil	03/22/24 12:18	03-25-2024 15:52
North Side Wall A @ 0-6"	4C25010-11	Soil	03/22/24 12:20	03-25-2024 15:52
South Side Wall A @ 0-6"	4C25010-12	Soil	03/22/24 12:22	03-25-2024 15:52
East Side Wall A @ 0-6"	4C25010-13	Soil	03/22/24 12:24	03-25-2024 15:52

E Tech Environmental & Safety Solutions, Inc. [1]	Project: NM Hayhurst Sect. 35 C TB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

Bottom Hole - 2A @ 12.5"
4C25010-01 (Soil)

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

Permian Basin Environmental Lab, L.P.

BTEX by 8021B								
Benzene	ND	0.00103	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 15:54	EPA 8021B
Toluene	ND	0.00103	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 15:54	EPA 8021B
Ethylbenzene	ND	0.00103	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 15:54	EPA 8021B
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 15:54	EPA 8021B
Xylene (o)	ND	0.00103	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 15:54	EPA 8021B
Surrogate: 4-Bromofluorobenzene	101 %	80-120			P4C2610	03/26/24 13:05	03/26/24 15:54	EPA 8021B
Surrogate: 1,4-Difluorobenzene	89.0 %	80-120			P4C2610	03/26/24 13:05	03/26/24 15:54	EPA 8021B

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M								
C6-C12	ND	25.8	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 03:49	TPH 8015M
>C12-C28	30.6	25.8	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 03:49	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 03:49	TPH 8015M
Surrogate: 1-Chlorooctane	91.2 %	70-130			P4C2615	03/26/24 15:41	03/27/24 03:49	TPH 8015M
Surrogate: o-Terphenyl	106 %	70-130			P4C2615	03/26/24 15:41	03/27/24 03:49	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	30.6	25.8	mg/kg dry	1	[CALC]	03/26/24 15:41	03/27/24 03:49	calc

General Chemistry Parameters by EPA / Standard Methods								
Chloride	170	1.03	mg/kg dry	1	P4C2611	03/26/24 14:29	03/26/24 20:41	EPA 300.0
% Moisture	3.0	0.1	%	1	P4C2709	03/27/24 10:08	03/27/24 10:12	ASTM D2216

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: NM Hayhurst Sect. 35 C TB Project Number: 17586 Project Manager: Blake Estep
---	---

Bottom Hole - 4A @ 10"
4C25010-02 (Soil)

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

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 16:16	EPA 8021B
Toluene	ND	0.00105	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 16:16	EPA 8021B
Ethylbenzene	ND	0.00105	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 16:16	EPA 8021B
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 16:16	EPA 8021B
Xylene (o)	ND	0.00105	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 16:16	EPA 8021B
Surrogate: 4-Bromofluorobenzene	105 %	80-120			P4C2610	03/26/24 13:05	03/26/24 16:16	EPA 8021B
Surrogate: 1,4-Difluorobenzene	88.6 %	80-120			P4C2610	03/26/24 13:05	03/26/24 16:16	EPA 8021B

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 04:12	TPH 8015M
>C12-C28	ND	26.3	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 04:12	TPH 8015M
>C28-C35	ND	26.3	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 04:12	TPH 8015M
Surrogate: 1-Chlorooctane	95.5 %	70-130			P4C2615	03/26/24 15:41	03/27/24 04:12	TPH 8015M
Surrogate: o-Terphenyl	110 %	70-130			P4C2615	03/26/24 15:41	03/27/24 04:12	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/26/24 15:41	03/27/24 04:12	calc

General Chemistry Parameters by EPA / Standard Methods

Chloride	75.4	5.26	mg/kg dry	5	P4C2611	03/26/24 14:29	03/26/24 20:56	EPA 300.0
% Moisture	5.0	0.1	%	1	P4C2709	03/27/24 10:08	03/27/24 10:12	ASTM D2216

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: NM Hayhurst Sect. 35 C TB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

Bottom Hole - 6A @ 8"
4C25010-03 (Soil)

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

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00106	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 16:39	EPA 8021B
Toluene	ND	0.00106	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 16:39	EPA 8021B
Ethylbenzene	ND	0.00106	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 16:39	EPA 8021B
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 16:39	EPA 8021B
Xylene (o)	ND	0.00106	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 16:39	EPA 8021B
Surrogate: 4-Bromofluorobenzene	110 %	80-120			P4C2610	03/26/24 13:05	03/26/24 16:39	EPA 8021B
Surrogate: 1,4-Difluorobenzene	85.0 %	80-120			P4C2610	03/26/24 13:05	03/26/24 16:39	EPA 8021B

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 05:22	TPH 8015M
>C12-C28	ND	26.6	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 05:22	TPH 8015M
>C28-C35	ND	26.6	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 05:22	TPH 8015M
Surrogate: 1-Chlorooctane	97.2 %	70-130			P4C2615	03/26/24 15:41	03/27/24 05:22	TPH 8015M
Surrogate: o-Terphenyl	113 %	70-130			P4C2615	03/26/24 15:41	03/27/24 05:22	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	03/26/24 15:41	03/27/24 05:22	calc

General Chemistry Parameters by EPA / Standard Methods

Chloride	111	1.06	mg/kg dry	1	P4C2611	03/26/24 14:29	03/28/24 10:32	EPA 300.0
% Moisture	6.0	0.1	%	1	P4C2709	03/27/24 10:08	03/27/24 10:12	ASTM D2216

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: NM Hayhurst Sect. 35 C TB Project Number: 17586 Project Manager: Blake Estep
---	---

Bottom Hole - 7A @ 8"
4C25010-04 (Soil)

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

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 17:01	EPA 8021B
Toluene	ND	0.00105	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 17:01	EPA 8021B
Ethylbenzene	ND	0.00105	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 17:01	EPA 8021B
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 17:01	EPA 8021B
Xylene (o)	ND	0.00105	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 17:01	EPA 8021B
Surrogate: 1,4-Difluorobenzene	86.5 %	80-120		P4C2610	03/26/24 13:05	03/26/24 17:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	109 %	80-120		P4C2610	03/26/24 13:05	03/26/24 17:01	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 05:45	TPH 8015M
>C12-C28	ND	26.3	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 05:45	TPH 8015M
>C28-C35	ND	26.3	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 05:45	TPH 8015M
Surrogate: 1-Chlorooctane	93.6 %	70-130		P4C2615	03/26/24 15:41	03/27/24 05:45	TPH 8015M	
Surrogate: o-Terphenyl	109 %	70-130		P4C2615	03/26/24 15:41	03/27/24 05:45	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/26/24 15:41	03/27/24 05:45	calc

General Chemistry Parameters by EPA / Standard Methods

Chloride	131	1.05	mg/kg dry	1	P4C2611	03/26/24 14:29	03/28/24 10:49	EPA 300.0
% Moisture	5.0	0.1	%	1	P4C2709	03/27/24 10:08	03/27/24 10:12	ASTM D2216

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: NM Hayhurst Sect. 35 C TB Project Number: 17586 Project Manager: Blake Estep
---	---

Bottom Hole - 8A @ 12"
4C25010-05 (Soil)

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

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 17:24	EPA 8021B
Toluene	ND	0.00110	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 17:24	EPA 8021B
Ethylbenzene	ND	0.00110	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 17:24	EPA 8021B
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 17:24	EPA 8021B
Xylene (o)	ND	0.00110	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 17:24	EPA 8021B
Surrogate: 4-Bromofluorobenzene	107 %	80-120			P4C2610	03/26/24 13:05	03/26/24 17:24	EPA 8021B
Surrogate: 1,4-Difluorobenzene	88.4 %	80-120			P4C2610	03/26/24 13:05	03/26/24 17:24	EPA 8021B

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 06:09	TPH 8015M
>C12-C28	ND	27.5	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 06:09	TPH 8015M
>C28-C35	ND	27.5	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 06:09	TPH 8015M
Surrogate: 1-Chlorooctane	95.6 %	70-130			P4C2615	03/26/24 15:41	03/27/24 06:09	TPH 8015M
Surrogate: o-Terphenyl	111 %	70-130			P4C2615	03/26/24 15:41	03/27/24 06:09	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	03/26/24 15:41	03/27/24 06:09	calc

General Chemistry Parameters by EPA / Standard Methods

Chloride	60.3	5.49	mg/kg dry	5	P4C2611	03/26/24 14:29	03/26/24 21:42	EPA 300.0
% Moisture	9.0	0.1	%	1	P4C2709	03/27/24 10:08	03/27/24 10:12	ASTM D2216

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: NM Hayhurst Sect. 35 C TB Project Number: 17586 Project Manager: Blake Estep
---	---

Bottom Hole - 9A @ 8"
4C25010-06 (Soil)

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

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 17:46	EPA 8021B
Toluene	ND	0.00105	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 17:46	EPA 8021B
Ethylbenzene	ND	0.00105	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 17:46	EPA 8021B
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 17:46	EPA 8021B
Xylene (o)	ND	0.00105	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 17:46	EPA 8021B
Surrogate: 1,4-Difluorobenzene	88.1 %	80-120		P4C2610	03/26/24 13:05	03/26/24 17:46	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	109 %	80-120		P4C2610	03/26/24 13:05	03/26/24 17:46	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 06:32	TPH 8015M
>C12-C28	ND	26.3	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 06:32	TPH 8015M
>C28-C35	ND	26.3	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 06:32	TPH 8015M
Surrogate: 1-Chlorooctane	89.1 %	70-130		P4C2615	03/26/24 15:41	03/27/24 06:32	TPH 8015M	
Surrogate: o-Terphenyl	102 %	70-130		P4C2615	03/26/24 15:41	03/27/24 06:32	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/26/24 15:41	03/27/24 06:32	calc

General Chemistry Parameters by EPA / Standard Methods

Chloride	132	1.05	mg/kg dry	1	P4C2611	03/26/24 14:29	03/28/24 11:06	EPA 300.0
% Moisture	5.0	0.1	%	1	P4C2709	03/27/24 10:08	03/27/24 10:12	ASTM D2216

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: NM Hayhurst Sect. 35 C TB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

Bottom Hole - 11A @ 8"
4C25010-07 (Soil)

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

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 18:08	EPA 8021B
Toluene	ND	0.00105	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 18:08	EPA 8021B
Ethylbenzene	ND	0.00105	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 18:08	EPA 8021B
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 18:08	EPA 8021B
Xylene (o)	ND	0.00105	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 18:08	EPA 8021B
Surrogate: 1,4-Difluorobenzene	87.3 %	80-120		P4C2610	03/26/24 13:05	03/26/24 18:08	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	108 %	80-120		P4C2610	03/26/24 13:05	03/26/24 18:08	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 06:55	TPH 8015M
>C12-C28	ND	26.3	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 06:55	TPH 8015M
>C28-C35	ND	26.3	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 06:55	TPH 8015M
Surrogate: 1-Chlorooctane	99.3 %	70-130		P4C2615	03/26/24 15:41	03/27/24 06:55	TPH 8015M	
Surrogate: o-Terphenyl	116 %	70-130		P4C2615	03/26/24 15:41	03/27/24 06:55	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	03/26/24 15:41	03/27/24 06:55	calc

General Chemistry Parameters by EPA / Standard Methods

Chloride	107	1.05	mg/kg dry	1	P4C2611	03/26/24 14:29	03/28/24 11:22	EPA 300.0
% Moisture	5.0	0.1	%	1	P4C2709	03/27/24 10:08	03/27/24 10:12	ASTM D2216

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: NM Hayhurst Sect. 35 C TB Project Number: 17586 Project Manager: Blake Estep
---	---

Bottom Hole 12A @ 8"
4C25010-08 (Soil)

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

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 18:30	EPA 8021B
Toluene	ND	0.00104	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 18:30	EPA 8021B
Ethylbenzene	ND	0.00104	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 18:30	EPA 8021B
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 18:30	EPA 8021B
Xylene (o)	ND	0.00104	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 18:30	EPA 8021B
Surrogate: 1,4-Difluorobenzene	87.8 %	80-120		P4C2610	03/26/24 13:05	03/26/24 18:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	112 %	80-120		P4C2610	03/26/24 13:05	03/26/24 18:30	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 07:19	TPH 8015M
>C12-C28	ND	26.0	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 07:19	TPH 8015M
>C28-C35	ND	26.0	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 07:19	TPH 8015M
Surrogate: 1-Chlorooctane	97.4 %	70-130		P4C2615	03/26/24 15:41	03/27/24 07:19	TPH 8015M	
Surrogate: o-Terphenyl	113 %	70-130		P4C2615	03/26/24 15:41	03/27/24 07:19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/26/24 15:41	03/27/24 07:19	calc

General Chemistry Parameters by EPA / Standard Methods

Chloride	231	1.04	mg/kg dry	1	P4C2611	03/26/24 14:29	03/28/24 11:39	EPA 300.0
% Moisture	4.0	0.1	%	1	P4C2709	03/27/24 10:08	03/27/24 10:12	ASTM D2216

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: NM Hayhurst Sect. 35 C TB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

Bottom Hole - 13A @ 8"
4C25010-09 (Soil)

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

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 18:53	EPA 8021B
Toluene	ND	0.00108	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 18:53	EPA 8021B
Ethylbenzene	ND	0.00108	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 18:53	EPA 8021B
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 18:53	EPA 8021B
Xylene (o)	ND	0.00108	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 18:53	EPA 8021B
Surrogate: 1,4-Difluorobenzene	82.9 %	80-120		P4C2610	03/26/24 13:05	03/26/24 18:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	120 %	80-120		P4C2610	03/26/24 13:05	03/26/24 18:53	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 07:42	TPH 8015M
>C12-C28	ND	26.9	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 07:42	TPH 8015M
>C28-C35	ND	26.9	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 07:42	TPH 8015M
Surrogate: 1-Chlorooctane	96.4 %	70-130		P4C2615	03/26/24 15:41	03/27/24 07:42	TPH 8015M	
Surrogate: o-Terphenyl	112 %	70-130		P4C2615	03/26/24 15:41	03/27/24 07:42	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	03/26/24 15:41	03/27/24 07:42	calc

General Chemistry Parameters by EPA / Standard Methods

Chloride	4340	10.8	mg/kg dry	10	P4C2613	03/26/24 15:25	03/27/24 00:01	EPA 300.0
% Moisture	7.0	0.1	%	1	P4C2709	03/27/24 10:08	03/27/24 10:12	ASTM D2216

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: NM Hayhurst Sect. 35 C TB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

Bottom Hole - 14A @ 8"
4C25010-10 (Soil)

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

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 19:16	EPA 8021B
Toluene	ND	0.00104	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 19:16	EPA 8021B
Ethylbenzene	ND	0.00104	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 19:16	EPA 8021B
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 19:16	EPA 8021B
Xylene (o)	ND	0.00104	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 19:16	EPA 8021B
Surrogate: 1,4-Difluorobenzene	86.8 %	80-120		P4C2610	03/26/24 13:05	03/26/24 19:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	110 %	80-120		P4C2610	03/26/24 13:05	03/26/24 19:16	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 08:05	TPH 8015M
>C12-C28	ND	26.0	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 08:05	TPH 8015M
>C28-C35	ND	26.0	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 08:05	TPH 8015M
Surrogate: 1-Chlorooctane	96.7 %	70-130		P4C2615	03/26/24 15:41	03/27/24 08:05	TPH 8015M	
Surrogate: o-Terphenyl	112 %	70-130		P4C2615	03/26/24 15:41	03/27/24 08:05	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/26/24 15:41	03/27/24 08:05	calc

General Chemistry Parameters by EPA / Standard Methods

Chloride	236	10.4	mg/kg dry	10	P4C2613	03/26/24 15:25	03/27/24 00:47	EPA 300.0
% Moisture	4.0	0.1	%	1	P4C2709	03/27/24 10:08	03/27/24 10:12	ASTM D2216

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: NM Hayhurst Sect. 35 C TB Project Number: 17586 Project Manager: Blake Estep
---	---

North Side Wall A @ 0-6"
4C25010-11 (Soil)

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

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 20:24	EPA 8021B
Toluene	ND	0.00103	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 20:24	EPA 8021B
Ethylbenzene	ND	0.00103	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 20:24	EPA 8021B
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 20:24	EPA 8021B
Xylene (o)	ND	0.00103	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 20:24	EPA 8021B
Surrogate: 1,4-Difluorobenzene	87.5 %	80-120		P4C2610	03/26/24 13:05	03/26/24 20:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	110 %	80-120		P4C2610	03/26/24 13:05	03/26/24 20:24	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 08:28	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 08:28	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 08:28	TPH 8015M
Surrogate: 1-Chlorooctane	102 %	70-130		P4C2615	03/26/24 15:41	03/27/24 08:28	TPH 8015M	
Surrogate: o-Terphenyl	118 %	70-130		P4C2615	03/26/24 15:41	03/27/24 08:28	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	03/26/24 15:41	03/27/24 08:28	calc

General Chemistry Parameters by EPA / Standard Methods

Chloride	127	1.03	mg/kg dry	1	P4C2613	03/26/24 15:25	03/28/24 11:56	EPA 300.0
% Moisture	3.0	0.1	%	1	P4C2709	03/27/24 10:08	03/27/24 10:12	ASTM D2216

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: NM Hayhurst Sect. 35 C TB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

South Side Wall A @ 0-6"
4C25010-12 (Soil)

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

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00104	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 20:46	EPA 8021B
Toluene	ND	0.00104	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 20:46	EPA 8021B
Ethylbenzene	ND	0.00104	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 20:46	EPA 8021B
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 20:46	EPA 8021B
Xylene (o)	ND	0.00104	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 20:46	EPA 8021B
Surrogate: 4-Bromofluorobenzene	108 %	80-120			P4C2610	03/26/24 13:05	03/26/24 20:46	EPA 8021B
Surrogate: 1,4-Difluorobenzene	88.1 %	80-120			P4C2610	03/26/24 13:05	03/26/24 20:46	EPA 8021B

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 08:51	TPH 8015M
>C12-C28	ND	26.0	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 08:51	TPH 8015M
>C28-C35	ND	26.0	mg/kg dry	1	P4C2615	03/26/24 15:41	03/27/24 08:51	TPH 8015M
Surrogate: 1-Chlorooctane	98.5 %	70-130			P4C2615	03/26/24 15:41	03/27/24 08:51	TPH 8015M
Surrogate: o-Terphenyl	115 %	70-130			P4C2615	03/26/24 15:41	03/27/24 08:51	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	03/26/24 15:41	03/27/24 08:51	calc

General Chemistry Parameters by EPA / Standard Methods

Chloride	91.8	5.21	mg/kg dry	5	P4C2613	03/26/24 15:25	03/27/24 01:17	EPA 300.0
% Moisture	4.0	0.1	%	1	P4C2709	03/27/24 10:08	03/27/24 10:12	ASTM D2216

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: NM Hayhurst Sect. 35 C TB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

East Side Wall A @ 0-6"
4C25010-13 (Soil)

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

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00102	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 21:09	EPA 8021B
Toluene	ND	0.00102	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 21:09	EPA 8021B
Ethylbenzene	ND	0.00102	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 21:09	EPA 8021B
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 21:09	EPA 8021B
Xylene (o)	ND	0.00102	mg/kg dry	1	P4C2610	03/26/24 13:05	03/26/24 21:09	EPA 8021B
Surrogate: 1,4-Difluorobenzene	85.9 %	80-120		P4C2610	03/26/24 13:05	03/26/24 21:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	108 %	80-120		P4C2610	03/26/24 13:05	03/26/24 21:09	EPA 8021B	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	26.5	25.5	mg/kg dry	1	P4C2616	03/26/24 15:43	03/26/24 23:21	TPH 8015M
>C12-C28	ND	25.5	mg/kg dry	1	P4C2616	03/26/24 15:43	03/26/24 23:21	TPH 8015M
>C28-C35	ND	25.5	mg/kg dry	1	P4C2616	03/26/24 15:43	03/26/24 23:21	TPH 8015M
Surrogate: 1-Chlorooctane	113 %	70-130		P4C2616	03/26/24 15:43	03/26/24 23:21	TPH 8015M	
Surrogate: o-Terphenyl	105 %	70-130		P4C2616	03/26/24 15:43	03/26/24 23:21	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	26.5	25.5	mg/kg dry	1	[CALC]	03/26/24 15:43	03/26/24 23:21	calc

General Chemistry Parameters by EPA / Standard Methods

Chloride	282	5.10	mg/kg dry	5	P4C2613	03/26/24 15:25	03/27/24 01:32	EPA 300.0
% Moisture	2.0	0.1	%	1	P4C2709	03/27/24 10:08	03/27/24 10:12	ASTM D2216

Permian Basin Environmental Lab, L.P.

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

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

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

Project: NM Hayhurst Sect. 35 C TB
Project Number: 17586
Project Manager: Blake Estep

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

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

Batch P4C2610 - * DEFAULT PREP *****

Blank (P4C2610-BLK1)

Prepared & Analyzed: 03/26/24

Benzene	ND	0.00100	mg/kg							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	0.105		"	0.120		87.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.5	80-120			

LCS (P4C2610-BS1)

Prepared & Analyzed: 03/26/24

Benzene	0.0911	0.00100	mg/kg	0.100		91.1	80-120			
Toluene	0.0816	0.00100	"	0.100		81.6	80-120			
Ethylbenzene	0.0924	0.00100	"	0.100		92.4	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		98.0	80-120			
Xylene (o)	0.0844	0.00100	"	0.100		84.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	80-120			

LCS Dup (P4C2610-BSD1)

Prepared & Analyzed: 03/26/24

Benzene	0.0939	0.00100	mg/kg	0.100		93.9	80-120	2.98	20	
Toluene	0.0864	0.00100	"	0.100		86.4	80-120	5.63	20	
Ethylbenzene	0.0982	0.00100	"	0.100		98.2	80-120	6.09	20	
Xylene (p/m)	0.208	0.00200	"	0.200		104	80-120	5.91	20	
Xylene (o)	0.0913	0.00100	"	0.100		91.3	80-120	7.88	20	
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	80-120			

Calibration Blank (P4C2610-CCB1)

Prepared & Analyzed: 03/26/24

Benzene	0.180		ug/kg							
Toluene	0.240		"							
Ethylbenzene	0.110		"							
Xylene (p/m)	0.140		"							
Xylene (o)	0.100		"							
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.126		"	0.120		105	80-120			

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: NM Hayhurst Sect. 35 C TB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

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

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

Batch P4C2610 - *** DEFAULT PREP ***

Calibration Blank (P4C2610-CCB2)				Prepared & Analyzed: 03/26/24						
Benzene	0.270		ug/kg							
Toluene	0.370		"							
Ethylbenzene	0.240		"							
Xylene (p/m)	0.210		"							
Xylene (o)	0.210		"							
Surrogate: 1,4-Difluorobenzene	0.101		"	0.120		84.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.130		"	0.120		108	80-120			

Calibration Check (P4C2610-CCV1)				Prepared & Analyzed: 03/26/24						
Benzene	0.0952	0.00100	mg/kg	0.100		95.2	80-120			
Toluene	0.0840	0.00100	"	0.100		84.0	80-120			
Ethylbenzene	0.0889	0.00100	"	0.100		88.9	80-120			
Xylene (p/m)	0.201	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0876	0.00100	"	0.100		87.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.6	75-125			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	75-125			

Calibration Check (P4C2610-CCV2)				Prepared & Analyzed: 03/26/24						
Benzene	0.105	0.00100	mg/kg	0.100		105	80-120			
Toluene	0.0935	0.00100	"	0.100		93.5	80-120			
Ethylbenzene	0.100	0.00100	"	0.100		100	80-120			
Xylene (p/m)	0.227	0.00200	"	0.200		114	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.5	75-125			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		103	75-125			

Calibration Check (P4C2610-CCV3)				Prepared: 03/26/24 Analyzed: 03/27/24						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.0980	0.00100	"	0.100		98.0	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.232	0.00200	"	0.200		116	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.9	75-125			
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.6	75-125			

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: NM Hayhurst Sect. 35 C TB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

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

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

Batch P4C2610 - *** DEFAULT PREP ***

Matrix Spike (P4C2610-MS1)	Source: 4C25010-01			Prepared: 03/26/24		Analyzed: 03/27/24				
Benzene	0.0837	0.00103	mg/kg dry	0.103	ND	81.2	80-120			
Toluene	0.0726	0.00103	"	0.103	ND	70.4	80-120			QM-05
Ethylbenzene	0.0789	0.00103	"	0.103	ND	76.5	80-120			QM-05
Xylene (p/m)	0.170	0.00206	"	0.206	ND	82.4	80-120			
Xylene (o)	0.0712	0.00103	"	0.103	ND	69.0	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.126		"	0.124		102	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.124		93.6	80-120			

Matrix Spike Dup (P4C2610-MSD1)	Source: 4C25010-01			Prepared: 03/26/24		Analyzed: 03/27/24				
Benzene	0.0927	0.00103	mg/kg dry	0.103	ND	89.9	80-120	10.2	20	
Toluene	0.0824	0.00103	"	0.103	ND	79.9	80-120	12.7	20	QM-05
Ethylbenzene	0.0905	0.00103	"	0.103	ND	87.8	80-120	13.8	20	
Xylene (p/m)	0.199	0.00206	"	0.206	ND	96.7	80-120	16.0	20	
Xylene (o)	0.0849	0.00103	"	0.103	ND	82.3	80-120	17.6	20	
Surrogate: 4-Bromofluorobenzene	0.129		"	0.124		104	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.124		92.0	80-120			

Permian Basin Environmental Lab, L.P.

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

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

Project: NM Hayhurst Sect. 35 C TB
Project Number: 17586
Project Manager: Blake Estep

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

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

Batch P4C2615 - TX 1005

Blank (P4C2615-BLK1)

Prepared & Analyzed: 03/26/24

C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	93.2		"	100		93.2	70-130			
Surrogate: o-Terphenyl	53.9		"	50.0		108	70-130			

LCS (P4C2615-BS1)

Prepared & Analyzed: 03/26/24

C6-C12	822	25.0	mg/kg	1000		82.2	75-125			
>C12-C28	858	25.0	"	1000		85.8	75-125			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	49.3		"	50.0		98.7	70-130			

LCS Dup (P4C2615-BSD1)

Prepared & Analyzed: 03/26/24

C6-C12	830	25.0	mg/kg	1000		83.0	75-125	0.931	20	
>C12-C28	853	25.0	"	1000		85.3	75-125	0.623	20	
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	50.5		"	50.0		101	70-130			

Calibration Check (P4C2615-CCV1)

Prepared & Analyzed: 03/26/24

C6-C12	536	25.0	mg/kg	500		107	85-115			
>C12-C28	570	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	56.2		"	50.0		112	70-130			

Calibration Check (P4C2615-CCV2)

Prepared: 03/26/24 Analyzed: 03/27/24

C6-C12	525	25.0	mg/kg	500		105	85-115			
>C12-C28	572	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	55.0		"	50.0		110	70-130			

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1] 13000 West County Road 100 Odessa TX, 79765	Project: NM Hayhurst Sect. 35 C TB Project Number: 17586 Project Manager: Blake Estep
---	---

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

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

Batch P4C2615 - TX 1005

Calibration Check (P4C2615-CCV3)	Prepared: 03/26/24 Analyzed: 03/27/24									
C6-C12	562	25.0	mg/kg	500		112	85-115			
>C12-C28	566	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	113		"	100		113	70-130			
Surrogate: o-Terphenyl	58.7		"	50.0		117	70-130			

Batch P4C2616 - TX 1005

Blank (P4C2616-BLK1)	Prepared & Analyzed: 03/26/24									
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	54.5		"	50.0		109	70-130			

LCS (P4C2616-BS1)	Prepared & Analyzed: 03/26/24									
C6-C12	854	25.0	mg/kg	1000		85.4	75-125			
>C12-C28	785	25.0	"	1000		78.5	75-125			
Surrogate: 1-Chlorooctane	122		"	100		122	70-130			
Surrogate: o-Terphenyl	52.8		"	50.0		106	70-130			

LCS Dup (P4C2616-BSD1)	Prepared & Analyzed: 03/26/24									
C6-C12	818	25.0	mg/kg	1000		81.8	75-125	4.33	20	
>C12-C28	788	25.0	"	1000		78.8	75-125	0.351	20	
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	50.8		"	50.0		102	70-130			

Calibration Check (P4C2616-CCV1)	Prepared & Analyzed: 03/26/24									
C6-C12	533	25.0	mg/kg	500		107	85-115			
>C12-C28	513	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	56.7		"	50.0		113	70-130			

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: NM Hayhurst Sect. 35 C TB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

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

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

Batch P4C2616 - TX 1005

Calibration Check (P4C2616-CCV2)				Prepared: 03/26/24 Analyzed: 03/27/24						
C6-C12	521	25.0	mg/kg	500		104	85-115			
>C12-C28	504	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	119		"	100		119	70-130			
Surrogate: o-Terphenyl	54.4		"	50.0		109	70-130			
Calibration Check (P4C2616-CCV3)				Prepared: 03/26/24 Analyzed: 03/27/24						
C6-C12	506	25.0	mg/kg	500		101	85-115			
>C12-C28	485	25.0	"	500		97.0	85-115			
Surrogate: 1-Chlorooctane	111		"	100		111	70-130			
Surrogate: o-Terphenyl	52.5		"	50.0		105	70-130			

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: NM Hayhurst Sect. 35 C TB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C2611 - *** DEFAULT PREP ***										
Blank (P4C2611-BLK1)				Prepared & Analyzed: 03/26/24						
Chloride	ND	1.00	mg/kg							
LCS (P4C2611-BS1)				Prepared & Analyzed: 03/26/24						
Chloride	16.5		mg/kg	18.0		91.5	90-110			
Calibration Check (P4C2611-CCV1)				Prepared & Analyzed: 03/26/24						
Chloride	17.1		mg/kg	18.0		94.8	90-110			
Calibration Check (P4C2611-CCV2)				Prepared & Analyzed: 03/26/24						
Chloride	17.3		mg/kg	18.0		96.0	90-110			
Matrix Spike (P4C2611-MS1)		Source: 4C20018-07		Prepared & Analyzed: 03/26/24						
Chloride	102		mg/kg	100	-0.100	102	80-120			
Matrix Spike (P4C2611-MS2)		Source: 4C25008-02		Prepared & Analyzed: 03/26/24						
Chloride	105		mg/kg	100	5.62	99.2	80-120			
Matrix Spike Dup (P4C2611-MSD1)		Source: 4C20018-07		Prepared & Analyzed: 03/26/24						
Chloride	101		mg/kg	100	-0.100	101	80-120	0.953	20	
Matrix Spike Dup (P4C2611-MSD2)		Source: 4C25008-02		Prepared & Analyzed: 03/26/24						
Chloride	104		mg/kg	100	5.62	98.9	80-120	0.326	20	
Batch P4C2613 - *** DEFAULT PREP ***										
Blank (P4C2613-BLK1)				Prepared & Analyzed: 03/26/24						
Chloride	ND	1.00	mg/kg							

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: NM Hayhurst Sect. 35 C TB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C2613 - *** DEFAULT PREP ***										
LCS (P4C2613-BS1)				Prepared & Analyzed: 03/26/24						
Chloride	16.9		mg/kg	18.0		93.8	90-110			
LCS Dup (P4C2613-BSD1)				Prepared & Analyzed: 03/26/24						
Chloride	17.3		mg/kg	18.0		95.9	90-110	2.17	10	
Calibration Check (P4C2613-CCV1)				Prepared & Analyzed: 03/26/24						
Chloride	17.6		mg/kg	18.0		97.9	90-110			
Calibration Check (P4C2613-CCV2)				Prepared: 03/26/24 Analyzed: 03/27/24						
Chloride	17.7		mg/kg	18.0		98.4	90-110			
Matrix Spike (P4C2613-MS1)		Source: 4C25010-09		Prepared: 03/26/24 Analyzed: 03/27/24						
Chloride	121		mg/kg	100	40.4	80.6	80-120			
Matrix Spike (P4C2613-MS2)		Source: 4C26016-06		Prepared: 03/26/24 Analyzed: 03/27/24						
Chloride	93.8		mg/kg	100	-0.103	93.8	80-120			
Matrix Spike Dup (P4C2613-MSD1)		Source: 4C25010-09		Prepared: 03/26/24 Analyzed: 03/27/24						
Chloride	125		mg/kg	100	40.4	84.2	80-120	2.95	20	
Matrix Spike Dup (P4C2613-MSD2)		Source: 4C26016-06		Prepared: 03/26/24 Analyzed: 03/27/24						
Chloride	96.1		mg/kg	100	-0.103	96.1	80-120	2.43	20	
Batch P4C2709 - *** DEFAULT PREP ***										
Blank (P4C2709-BLK1)				Prepared & Analyzed: 03/27/24						
% Moisture	ND	0.1	%							

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: NM Hayhurst Sect. 35 C TB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P4C2709 - *** DEFAULT PREP ***										
Blank (P4C2709-BLK2)				Prepared & Analyzed: 03/27/24						
% Moisture	ND	0.1	%							
Duplicate (P4C2709-DUP1)				Source: 4C25010-02 Prepared & Analyzed: 03/27/24						
% Moisture	6.0	0.1	%		5.0			18.2	20	
Duplicate (P4C2709-DUP2)				Source: 4C25010-12 Prepared & Analyzed: 03/27/24						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Duplicate (P4C2709-DUP3)				Source: 4C26016-14 Prepared & Analyzed: 03/27/24						
% Moisture	3.0	0.1	%		3.0			0.00	20	

Permian Basin Environmental Lab, L.P.

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

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

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

Project: NM Hayhurst Sect. 35 C TB
Project Number: 17586
Project Manager: Blake Estep

Notes and Definitions

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

NPBEL C Chain of Custody was not generated at PBELAB

BULK Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

5/10/2024

Brent Barron, Laboratory Director/Technical Director

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

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

Permian Basin Environmental Lab, L.P.

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

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

E Tech Environmental & Safety Solutions, Inc. [1]	Project: NM Hayhurst Sect. 35 C TB
13000 West County Road 100	Project Number: 17586
Odessa TX, 79765	Project Manager: Blake Estep

Permian Basin Environmental Lab, L.P.

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

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



OBELAS

Chain of Custody

4C2501C

Work Order No: PAT

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) 382-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

www.xenoco.com Page 1 of 2

Project Manager:	Blake Estep	Bill to: (if different)	
Company Name:	Etech Environmental	Company Name:	
Address:	13000 West CR 100	Address:	
City, State ZIP:	Midland, TX 79711	City, State ZIP:	
Phone:	(432) 563-2200	Email:	blake@etechenv.com

Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: <input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Mn Highway 35 C 7B		Turn Around	
Project Number:	17586		Routine	<input checked="" type="checkbox"/>
P.O. Number:	17586		Rush:	
Sampler's Name:	Arturo Delgado		Due Date:	
SAMPLE RECEIPT				
Temperature (°C):	03.2	Temp Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wet Ice: <input checked="" type="checkbox"/> No <input type="checkbox"/>
Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:	13	
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor:	N/A	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Total Containers:	13	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
Bottom 246-2-A	S	3-22-21	1200	12"
Bottom 246-4/A	S		1202	10"
Bottom 246-6/A	S		1204	8"
Bottom 246-7/A	S		1206	8"
Bottom 246-8/A	S		1208	12"
Bottom 246-9/A	S		1210	8"
Bottom 246-11/A	S		1212	8"
Bottom 246-12/A	S		1214	8"
Bottom 246-13/A	S		1216	8"
Bottom 246-14/A	S		1218	8"
ANALYSIS REQUEST				
Number of Containers				
<input checked="" type="checkbox"/> Chloride (E300)				
<input checked="" type="checkbox"/> TPH (TX1005) (8015M)				
<input checked="" type="checkbox"/> BTEX (8021B)				
Work Order Notes				
Bill Etech				
Sample Comments				

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 Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenoco 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 Xenoco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenoco, 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
		3/24/21 15:52			

PELLE

Chain of Custody

4C25010
Work Order No: PAT



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3333
Midland, TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575-382-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 281-1111

Page 2 of 2
www.xenco.com



Project Manager:		Blake Estep		Bill to: (if different)			
Company Name:		Etech Environmental		Company Name:			
Address:		13000 West CR 100		Address:			
City, State ZIP:		Midland, TX 79711		City, State ZIP:			
Phone:		(432)563-2200		Email:		blake@etechenv.com	

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level I <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: <input type="checkbox"/>	

[illegible]

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xencio, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xencio 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 Xencio. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xencio, but not analyzed. These terms will be enforced unless previously negotiated.

Total	200.7 / 6010	200.8 / 6020:
Circle Method(s) and Metal(s) to be analyzed	8RCRA TCLP / SPLP 6010:	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg
	13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn	

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			8/25/24 15:52			
2						
3						
4						
5						

Revised Date 05/14/18 Rev 2018



DOC #: PBEL_REV_SUBMISSION

REVISION #: PBEL_2021_1

REVISION Date: 10/29/2021

EFFECTIVE DATE: 10/29/2021

REVISION/SUBMISSION FORM

Please fill in the required fields below with any requested revisions. In the event that there are multiple workorders or projects to be amended each workorder or project MUST have a separate form filled out entirely. An amended COC must be submitted in addition to the Revision/Submission Form in order for the amendments to be processed. Amended COC's do not replace the requirement of this form. If a revision is required due to errors or omissions on our part this form is still required for the necessary Non-Conformance documentation. Rerun requests will incur additional charges.

Client: eTech Environmental

Project: 4C25010

Revision Request:

Please revise the depth of Sample 2A from 12" to 12.5".

Submitted by (Name and Date): Blake Estep 05/10/2024

PBEL_REV_SUBMISSION_2021_1.DOC

Page 1 of 1

APPENDIX F

Correspondence & Notifications

Abe Valladares

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, August 7, 2023 10:45 AM
To: Blake Estep
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] Soil Sampling Activities

You don't often get email from shelly.wells@emnrd.nm.gov. [Learn why this is important](#)

Hi Blake,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Administrative Permitting Program
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Blake Estep <blake@etechenv.com>
Sent: Monday, August 7, 2023 9:12 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Soil Sampling Activities

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

Chevron anticipates conducting soil sampling activities at the following sites between August 10 & 11, 2023:

Site Name: Hayhurst NM Section 26 Dignitas SWD
Incident Number: nAPP2301837404

Site Name: Hayhurst NM Section 35 CTB
Incident Number: nAPP2302742810

Thank you,

Blake Estep

Etech Environmental & Safety Solutions, Inc.
P.O. Box 62228
Midland, Texas 79711
Phone: 432-563-2200
Mobile: 432-894-6038
Fax: 432-563-2213

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

QUESTIONS

Action 324933

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 324933
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2302742810
Incident Name	NAPP2302742810 HAYHURST NM SECTION 35 CTB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2131342791] Hayhurst NM Section 35 CTB

Location of Release Source	
Site Name	HAYHURST NM SECTION 35 CTB
Date Release Discovered	01/12/2023
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,863
What is the estimated number of samples that will be gathered	13
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/22/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Blake Estep at 432-894-6038
Please provide any information necessary for navigation to sampling site	From the intersection of Whites City Road & CR 775, travel E for 0.03 miles. Turn N, travel 0.76 miles. Turn E, travel 1.86 miles. Turn NW, travel 0.09 miles to the GPS coordinates (32.091991, -104.152622)

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 324933

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 324933
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
abarnhill	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	3/20/2024

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

QUESTIONS

Action 351250

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:	4323
	Action Number:	351250
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2302742810
Incident Name	NAPP2302742810 HAYHURST NM SECTION 35 CTB @ 0
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2131342791] Hayhurst NM Section 35 CTB

Location of Release Source	
Please answer all the questions in this group.	
Site Name	HAYHURST NM SECTION 35 CTB
Date Release Discovered	01/12/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Tank (Any) Crude Oil Released: 6 BBL Recovered: 5 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 351250

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number:
	351250
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 06/06/2024
--	---

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

QUESTIONS, Page 3

Action 351250

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number:
	351250
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	4340
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	11100
GRO+DRO	(EPA SW-846 Method 8015M)	10850
BTEX	(EPA SW-846 Method 8021B or 8260B)	33
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	08/11/2023
On what date will (or did) the final sampling or liner inspection occur	03/22/2024
On what date will (or was) the remediation complete(d)	12/31/2024
What is the estimated surface area (in square feet) that will be reclaimed	1861
What is the estimated volume (in cubic yards) that will be reclaimed	69
What is the estimated surface area (in square feet) that will be remediated	200
What is the estimated volume (in cubic yards) that will be remediated	11

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 4

Action 351250

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:	4323
	Action Number:	351250
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY [FEEM0421141609]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 06/06/2024
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 351250

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 351250
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

QUESTIONS, Page 6
Action 351250

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number:
	351250
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	324933
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/22/2024
What was the (estimated) number of samples that were to be gathered	13
What was the sampling surface area in square feet	1863

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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 351250

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 351250
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	6/17/2024