Environmental & Safety Solutions, Inc.

DEFERRAL REQUEST REPORT

Culebra Bluff West 15 CTB

Eddy County, New Mexico

Incident Number nAPP2226533583

Prepared for:

Chevron USA, Inc.

6301 Deauville Blvd

Midland, TX, 79706

Carlsbad ● Houston ● Midland ● San Antonio ● Lubbock ● Hobbs ● Lafayette

SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Chevron USA, Inc (Chevron), presents the following Deferral Request Report (RWP) detailing site assessment activities at the Culebra Bluff West 15 CTB (Site) associated with an inadvertent release of produced water assigned Incident Number nAPP2226533583. Based on field observations and laboratory analytical results from recent soil sampling events, Chevron is proposing to defer residual impacted soil within multiple aboveground equipment, surface and subsurface lines for the safety of onsite personnel and requesting No Further Action (NFA) until the Site undergoes major deconstruction or plugging and abandonment (P&A), whichever comes first.

SITE LOCATION AND RELEASE BACKGROUND

The Site is located in Unit B, Section 15, Township 23 South, Range 28 East, in Eddy County, New Mexico (32.30986°, -104.07278°) 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 September 14, 2022, a valve washed out and failed which resulted in approximately 11.1 barrels (bbls) of produced water to be released on the production pad. No fluids were able to be recovered immediately. Chevron reported the release to the NMOCD (Mr. Mike Bratcher) via email on September 15, 2022, and on a Release Notification and Corrective Action Form C-141 (Form C-141) and was subsequently assigned Incident Number nAPP2226533583. **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 nearest, permitted water well with depth to water data appears to be New Mexico Office of the State Engineer (NMOSE) well C-00616, located approximately 0.44 miles southeast of the Site (**Figure 1A** in **Appendix A**). NMOSE well C-00616 has a reported depth to groundwater of 30 feet below ground surface (bgs) from 1980. The well record is provided in **Appendix B.**

The Site is located within a medium karst potential area and all other potential receptors are not within the established buffers defined in NMAC 19.15.29.12. Receptor details from the site characterization are included in **Figure 1B** and **Figure 1C** in **Appendix A**.

Based on the results from the desktop review, estimated regional depth to groundwater at the Site and data age, the following Closure Criteria is applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria†
Chloride	Environmental Protection Agency (EPA) 300.0	600 milligram per kilogram (mg/kg)
TPH (Total Petroleum Hydrocarbon)	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 standard 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 ASSESSMENT AND EXCAVATION ACTIVITIES

On July 5, 2023, Etech visited the Site to assess the AOC based on information reported on the Form C-141 and visual observations. The AOC was mapped utilizing a handheld Global Positioning System (GPS) unit, which is shown in **Figure 2** in **Appendix A**. Initial corrective action consisted of removing visually impacted soil from the AOC to the maximum extent practical (MEP) based on site conditions and refusal. Approximately 7.66 cubic yards of soil was removed and disposed of under Chevron approved manifests. Photographic documentation during the site visit and excavation activities is included in **Attachment C**.

Etech collected 5-point composite confirmation soil samples within the AOC representing no greater than 200 square feet from the floors (Bottom Hole 1 through Bottom Hole 3). The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. Confirmation soils samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The locations of the confirmation soil samples are shown in **Figure 2** in **Appendix A**.

LABORATORY EXCAVATION SOIL ANALYTICAL RESULTS

Elevated COCs exceedances were above the Closure Criteria for all confirmation excavation soil samples (characterized by a chloride concentrations ranging from 3,940 to 6,200 mg/kg). 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**.

DELINEATION SOIL SAMPLING ACTIVITIES

From September 21, 2023, to October 10, 2024, Etech conducted delineation activities to assess the Site for the presence of remaining soil impacts or absence of residual soil impacts associated with the AOC. Delineation activities were advanced within and around the AOC via hand auger until refusal which was driven by field screening soil for VOCs utilizing a calibrated PID and chloride using Hach® chloride QuanTab® test strips. Soil samples were collected at each delineation soil sampling location, representing the highest observed field screening concentrations and/or the greatest depth. The delineation soil sample locations are shown in **Figure 2** in **Appendix A**.

Delineation soil samples were placed directly 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 Lab, L.P. (PBELAB) in Midland, Texas or Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico for analysis of COCs.

LABORATORY DELINEATION SOIL ANALYTICAL RESULTS

Elevated COC exceedances above the Closure Criteria were identified in Test Trench 1 at 0.5-foot bgs (characterized by a chloride concentrations of 2,440 mg/kg) and BH01 at 1-foot bgs (characterized by a chloride concentrations of 618 mg/kg. Based on the laboratory analytical results and location of lateral delineation soil samples (BH01 through BH03 and Test Trench 2), the horizontal edge of the release appears to be delineated. 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**.

DEFERRAL AND VARIANCE REQUEST

Based on laboratory analytical results from delineation soil sampling events, residual impacts associated with the AOC have been delineated where accessible based on the Site configuration and in which present the least hazard risks for onsite personnel. As such, residual impacts appear to solely reside directly below and near surface utilities and equipment up to 4 feet bgs based on laboratory analytical results for samples collected within and around the AOC. Chevron requests to defer the areas associated with Bottom Hole 1 through Bottom Hole 3 and Test Trench 1, and the remainder of residual impacted soil within the AOC, unable to be safely addressed at this time. Chloride concentrations for BH01 are minimally elevated (618 mg/kg) when compared to the Site Closure Criteria (600 mg/kg). Since impacts are shallow and refusal has been encountered in this area where the use of heavy equipment is limited, de minimis impacts are not anticipated to migrate further. Chevron requests NMOCD to consider this area as a boundary for lateral definition and to assist with a deferral estimation of soil impact left in place.

Chevron believes the initial response recovery efforts have mitigated impacts at the Site and assist with meeting the deferral requirements set forth in NMAC regulations to be protective of human health, the environment, and groundwater. Impacted soil is expected to be contained with the top 0.5 feet of the AOC and does not appear to exceed 4 feet bgs based on representative soil sample Test Trench 1. As such, Chevron respectfully requests deferral of up to 65 cubic yards of residual impacted soil lying beneath multiple aboveground equipment, surface and subsurface lines containment until the Site undergoes major facility deconstruction or P&A, whichever comes first.

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) 305-6416 or erick@etechenv.com. Documentation of correspondence and notifications regarding Incident Number nAPP2226533583 is presented as **Appendix F**.

Sincerely,

eTECH Environmental and Safety Solutions, Inc.

Abraham Valladares
Project Coordinator

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: Excavation Sample Locations
Figure 3: Delineation Soil Excavation Area
Figure 4: Deferral 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

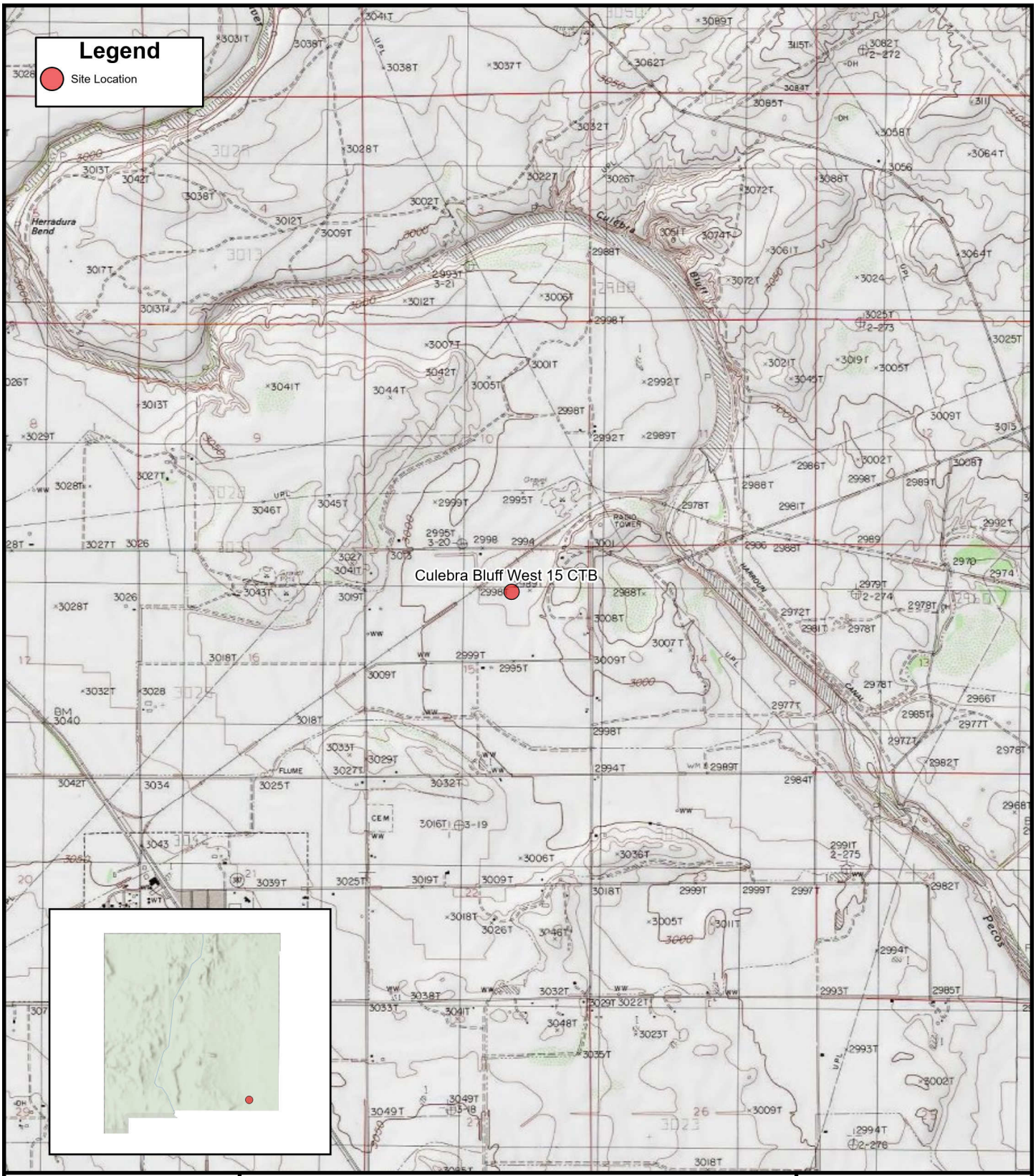


FIGURE 1

Site Location Map

Chevron USA
Culebra Bluff West 15 CTB
Unit B Sec 15 T23S R28E
Eddy County, New Mexico

N

0 2,000 4,000 Feet

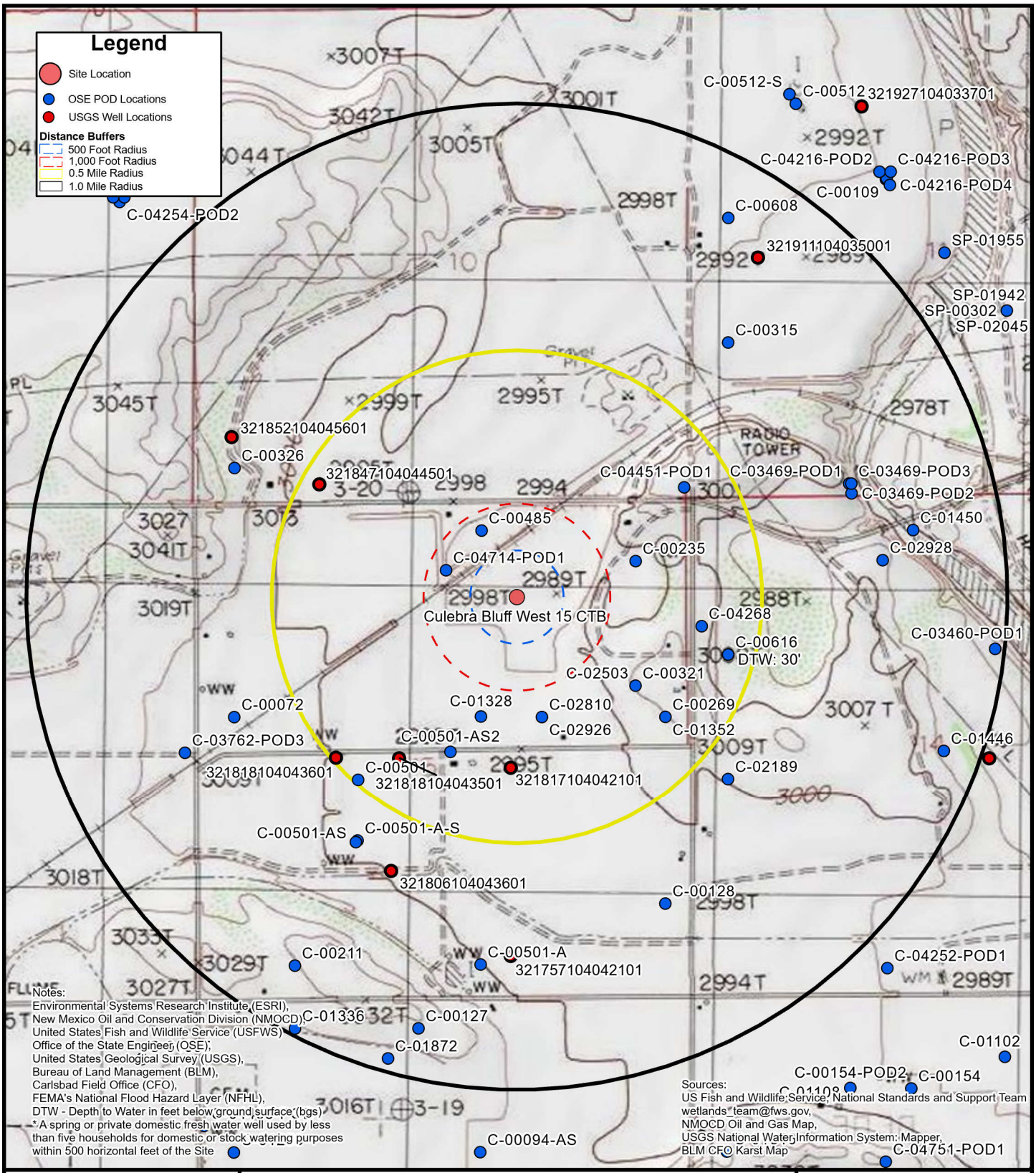
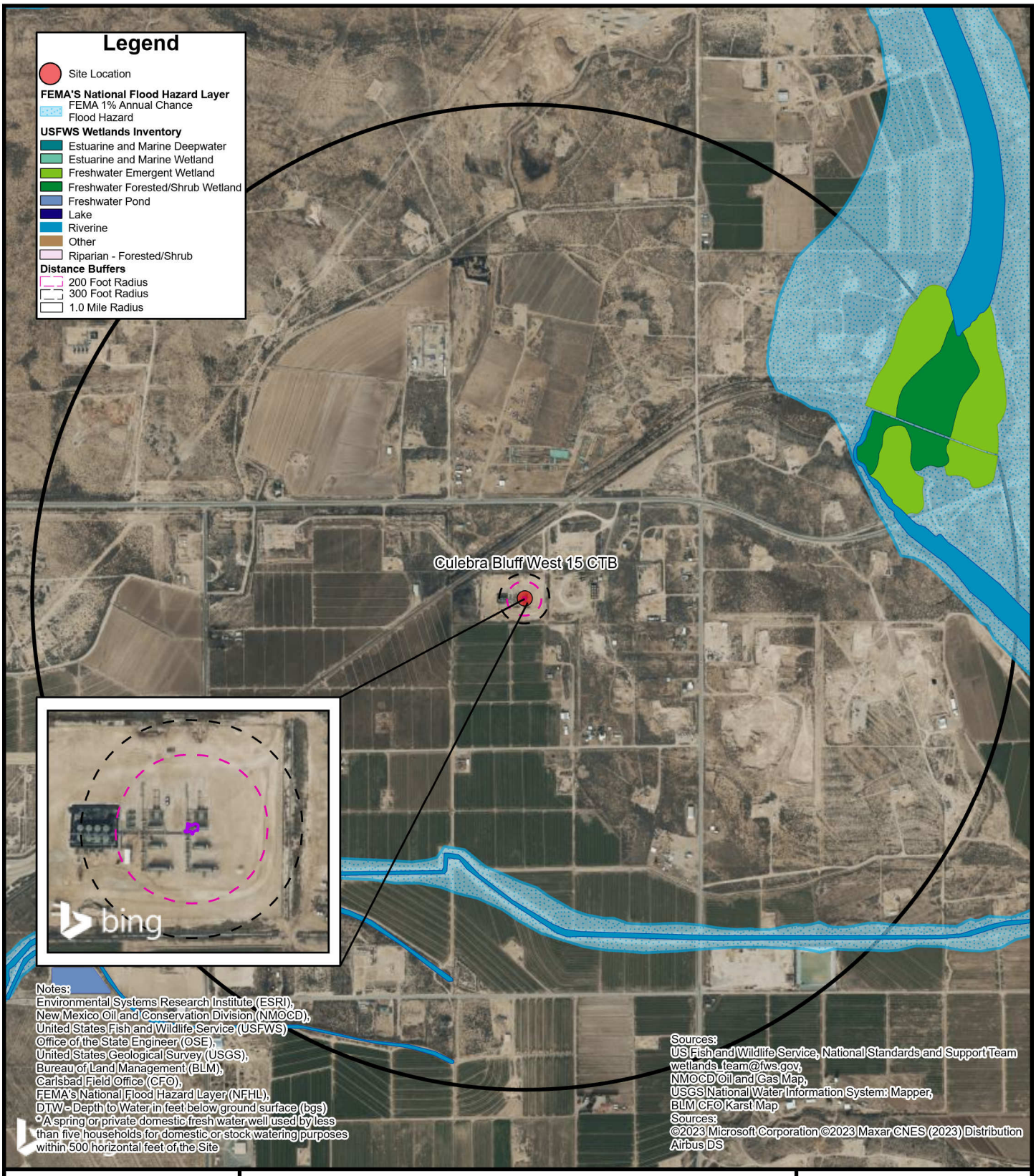


FIGURE 1A

Site Characterization Map

Ground Water

Chevron USA
Culebra Bluff West 15 CTB
Unit B Sec 15 T23S R28E
Eddy County, New Mexico



eTECH

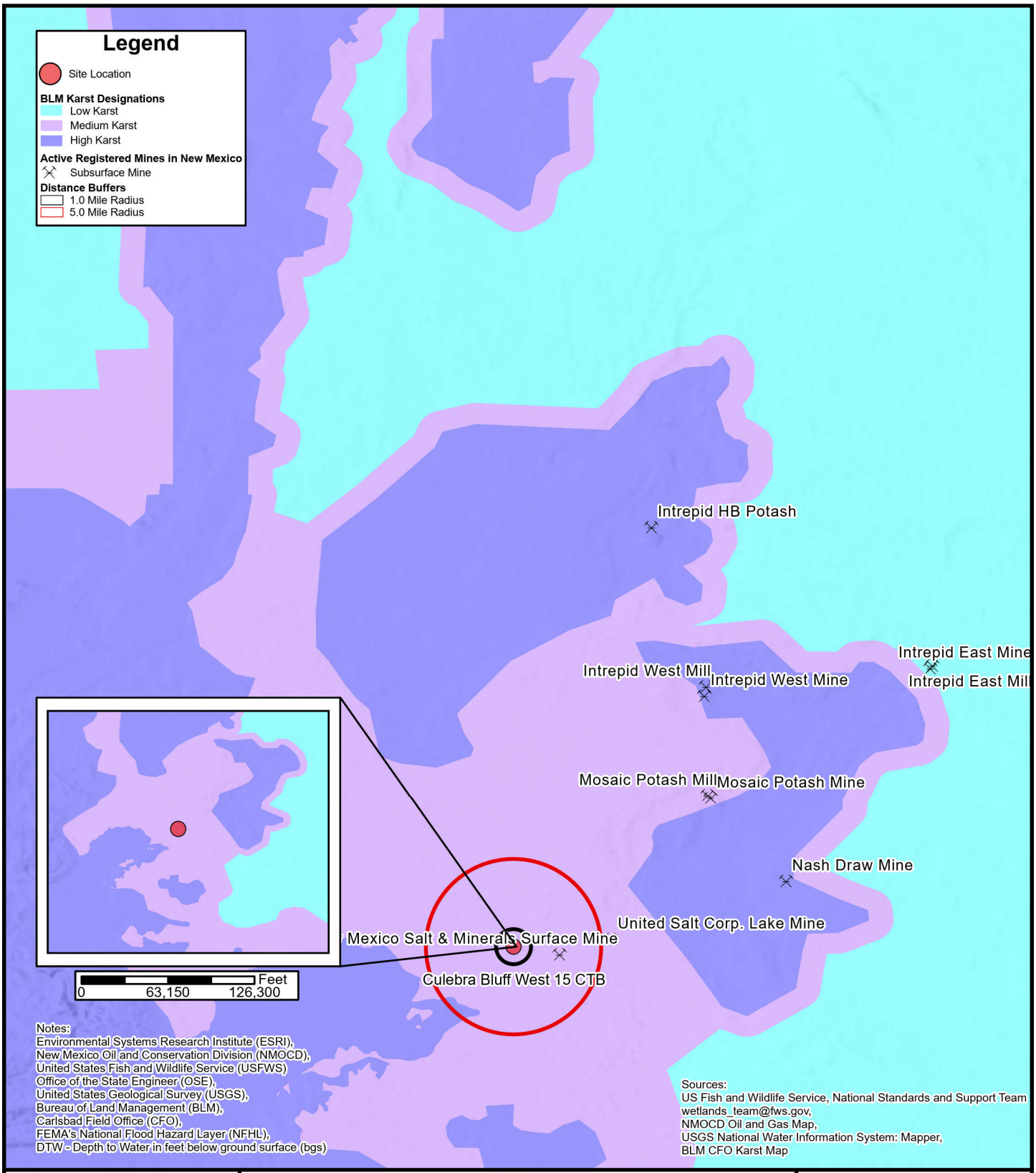
FIGURE 1B

Site Characterization Map
Surficial Receptors

Chevron USA
Culebra Bluff West 15 CTB
Unit B Sec 15 T23S R28E
Eddy County, New Mexico

N

0 500 1,000 Feet



eTECH

FIGURE 1C

Site Characterization Map

Subsurface Receptors

Chevron USA
Culebra Bluff West 15 CTB
Unit B Sec 15 T23S R28E
Eddy County, New Mexico

N

Feet
0
15,000
30,000

eTECH

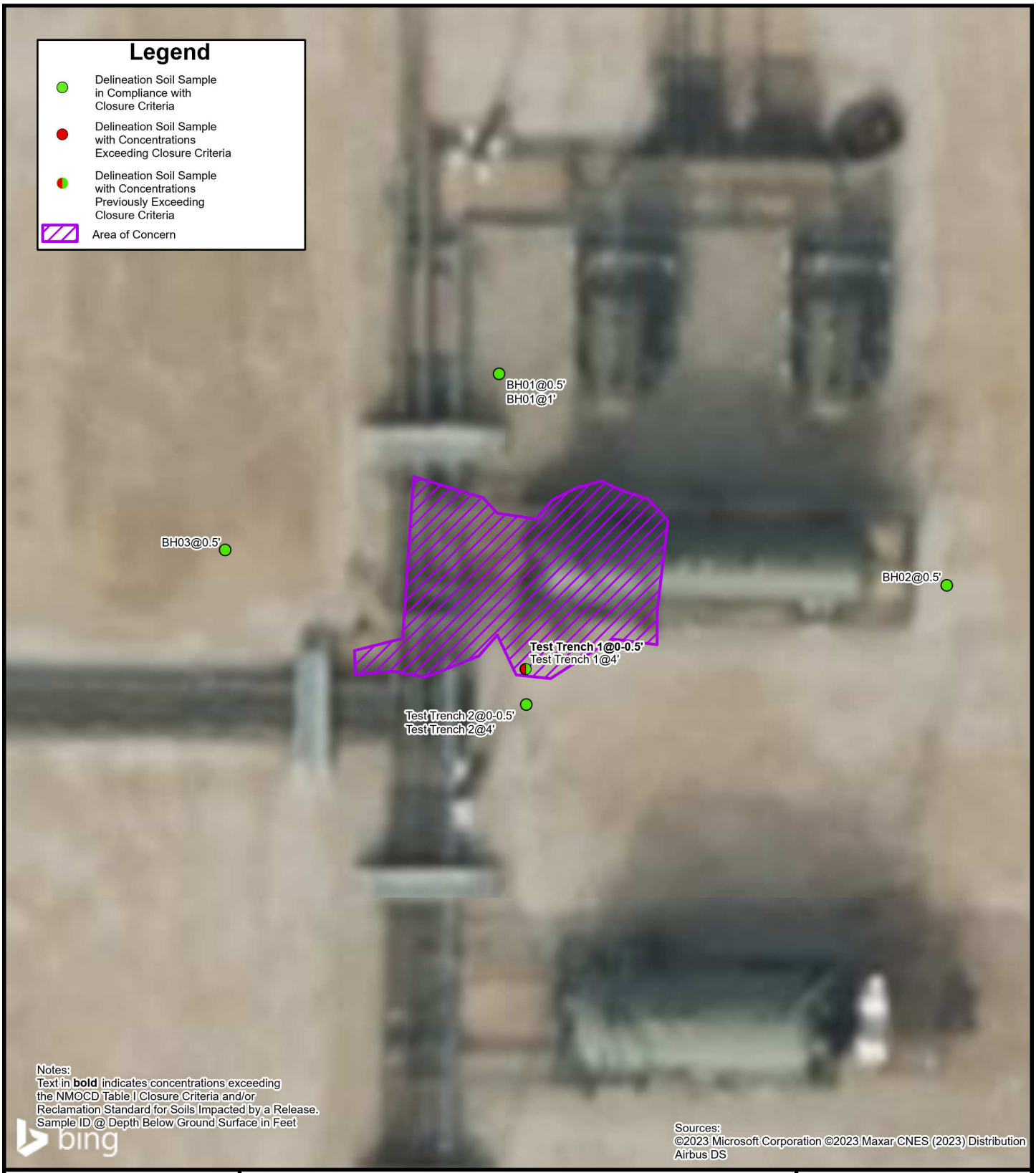
FIGURE 2

Excavation Soil Sample Locations

Chevron USA, Inc
Culebra Bluff West 15 CTB
Unit B Sec 15 T23S R28E
Eddy County, New Mexico

N

0 5 10 Feet



eTECH

FIGURE 3

Delineation Soil Sample Locations

Chevron USA, Inc
Culebra Bluff West 15 CTB
Unit B Sec 15 T23S R28E
Eddy County, New Mexico

N

0 5 10 Feet

eTECH

FIGURE 4

Deferral Area

Chevron USA, Inc
Culebra Bluff West 15 CTB
Unit B Sec 15 T23S R28E
Eddy County, New Mexico

N

0 5 10 Feet

APPENDIX B

Referenced Well Records

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 00616	NW	SW	NW	14	23S	28E	587982.0	3574978.0 *	

*** UTM location was derived from PLSS - see Help**

Driller License:	842	**Driller Company:**	BRININSTOOL, M.D.		
Driller Name:	BRININSTOOL, M.D.				
Drill Start Date:	1980-10-22	**Drill Finish Date:**	1980-12-05	**Plug Date:**	
Log File Date:	1980-12-09	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	400
Casing Size:	9.63	**Depth Well:**	120	**Depth Water:**	30

Water Bearing Stratifications:

Top	Bottom	Description
60	85	Shallow Alluvium/Basin Fill
92	96	Shallow Alluvium/Basin Fill

Casing Perforations:

Top	Bottom
60	120

APPENDIX C

Photographic Log

PHOTOGRAPHIC LOG
Chevron USA, Inc.
Culebra Bluff 15 West CTB
Incident Number nAPP2226533583

Photograph 1 **Date: 07/05/2023**
Description: Western view of excavation activities.

Photograph 2 **Date: 07/05/2023**
Description: Eastern view of excavation activities.

Photograph 3 **Date: 09/21/2023**
Description: Southeastern view of delineation activities.

Photograph 4 **Date: 09/21/2023**
Description: Western view of delineation activities.

APPENDIX D

Tables

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Chevron USA, Inc.
Culebra Bluff West 15 CTB
Eddy County, New Mexico

Sample I.D.	Sample Date	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**
Excavation Soil Samples - nAPP2226533583									
Bottom Hole 1	07/05/2023	0.33	<0.00470	<0.00940	<26.0	38.9	<26.0	38.9	**5,550**
Bottom Hole 2	07/05/2023	0.33	<0.00480	<0.00970	<26.3	<26.3	<26.3	<26.3	**3,940**
Bottom Hole 3	07/05/2023	0.33	<0.00500	<0.0100	<26.0	<26.0	<26.0	<26.0	**6,200**
Delineation Soil Samples - nAPP2226533583									
Test Trench 1	09/21/2023	0-0.5	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	**2,440**
Test Trench1	09/21/2023	4	<0.00112	<0.00225	<28.1	<28.1	<28.1	<28.1	532
Test Trench 2	09/21/2023	0-0.5	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	232
Test Trench 2	09/21/2023	4	<0.00111	<0.00222	<27.8	<27.8	<27.8	<27.8	248
BH01	10/10/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	583
BH01	10/10/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	**618**
BH02	10/10/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	570
BH03	10/10/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<50.0	293

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

PBELAB

Analytical Report

Prepared for:

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

Project: Culebra Bluff West 15 CTB
Project Number: 16949
Location: New Mexico

Lab Order Number: 3G11013

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 07/24/23

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

Project: Culebra Bluff West 15 CTB
Project Number: 16949
Project Manager: Blake Estep

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottom Hole 1	3G11013-01	Soil	07/05/23 12:00	07-10-2023 16:00
Bottom Hole 2	3G11013-02	Soil	07/05/23 12:04	07-10-2023 16:00
Bottom Hole 3	3G11013-03	Soil	07/05/23 12:08	07-10-2023 16:00

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
Odessa TX, 79765	Project Manager: Blake Estep

Bottom Hole 1

3G11013-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3G1114	07/11/23 15:00	07/12/23 03:56	TPH 8015M	
>C12-C28	**38.9**	26.0	mg/kg dry	1	P3G1114	07/11/23 15:00	07/12/23 03:56	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3G1114	07/11/23 15:00	07/12/23 03:56	TPH 8015M	
Surrogate: 1-Chlorooctane		*86.1 %*	*70-130*		*P3G1114*	*07/11/23 15:00*	*07/12/23 03:56*	*TPH 8015M*	
Surrogate: o-Terphenyl		*105 %*	*70-130*		*P3G1114*	*07/11/23 15:00*	*07/12/23 03:56*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**38.9**	26.0	mg/kg dry	1	[CALC]	07/11/23 15:00	07/12/23 03:56	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5550**	26.0	mg/kg dry	25	P3G1113	07/11/23 17:00	07/12/23 11:43	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3G1206	07/12/23 14:52	07/12/23 14:57	ASTM D2216	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	0.00470	mg/kg	1	P3G2405	07/14/23 13:53	07/14/23 13:53	EPA 8260B	SUB-13
Ethylbenzene	ND	0.00470	mg/kg	1	P3G2405	07/14/23 13:53	07/14/23 13:53	EPA 8260B	SUB-13
m,p-Xylene	ND	0.00940	mg/kg	1	P3G2405	07/14/23 13:53	07/14/23 13:53	EPA 8260B	SUB-13
o-Xylene	ND	0.00470	mg/kg	1	P3G2405	07/14/23 13:53	07/14/23 13:53	EPA 8260B	SUB-13
Toluene	ND	0.00470	mg/kg	1	P3G2405	07/14/23 13:53	07/14/23 13:53	EPA 8260B	SUB-13
Xylenes (total)	ND	0.00470	mg/kg	1	P3G2405	07/14/23 13:53	07/14/23 13:53	EPA 8260B	SUB-13

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
Odessa TX, 79765	Project Manager: Blake Estep

Bottom Hole 2

3G11013-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3G1114	07/11/23 15:00	07/12/23 04:20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3G1114	07/11/23 15:00	07/12/23 04:20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3G1114	07/11/23 15:00	07/12/23 04:20	TPH 8015M	
Surrogate: 1-Chlorooctane	*88.3 %*		*70-130*		*P3G1114*	*07/11/23 15:00*	*07/12/23 04:20*	*TPH 8015M*	
Surrogate: o-Terphenyl	*110 %*		*70-130*		*P3G1114*	*07/11/23 15:00*	*07/12/23 04:20*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	07/11/23 15:00	07/12/23 04:20	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3940**	10.5	mg/kg dry	10	P3G1113	07/11/23 17:00	07/12/23 11:58	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3G1206	07/12/23 14:52	07/12/23 14:57	ASTM D2216	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	0.00480	mg/kg	1	P3G2405	07/14/23 14:14	07/14/23 14:14	EPA 8260B	SUB-13
Ethylbenzene	ND	0.00480	mg/kg	1	P3G2405	07/14/23 14:14	07/14/23 14:14	EPA 8260B	SUB-13
m,p-Xylene	ND	0.00970	mg/kg	1	P3G2405	07/14/23 14:14	07/14/23 14:14	EPA 8260B	SUB-13
o-Xylene	ND	0.00480	mg/kg	1	P3G2405	07/14/23 14:14	07/14/23 14:14	EPA 8260B	SUB-13
Toluene	ND	0.00480	mg/kg	1	P3G2405	07/14/23 14:14	07/14/23 14:14	EPA 8260B	SUB-13
Xylenes (total)	ND	0.00480	mg/kg	1	P3G2405	07/14/23 14:14	07/14/23 14:14	EPA 8260B	SUB-13

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
Odessa TX, 79765	Project Manager: Blake Estep

Bottom Hole 3

3G11013-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3G1114	07/11/23 15:00	07/12/23 04:44	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P3G1114	07/11/23 15:00	07/12/23 04:44	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3G1114	07/11/23 15:00	07/12/23 04:44	TPH 8015M	
Surrogate: 1-Chlorooctane	*84.4 %*		*70-130*		*P3G1114*	*07/11/23 15:00*	*07/12/23 04:44*	*TPH 8015M*	
Surrogate: o-Terphenyl	*103 %*		*70-130*		*P3G1114*	*07/11/23 15:00*	*07/12/23 04:44*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	07/11/23 15:00	07/12/23 04:44	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6200**	26.0	mg/kg dry	25	P3G1113	07/11/23 17:00	07/12/23 12:12	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3G1206	07/12/23 14:52	07/12/23 14:57	ASTM D2216	
Volatile Organic Compounds by EPA Method 8260B									
Benzene	ND	0.00500	mg/kg	1	P3G2405	07/14/23 14:36	07/14/23 14:36	EPA 8260B	SUB-13
Ethylbenzene	ND	0.00500	mg/kg	1	P3G2405	07/14/23 14:36	07/14/23 14:36	EPA 8260B	SUB-13
m,p-Xylene	ND	0.0100	mg/kg	1	P3G2405	07/14/23 14:36	07/14/23 14:36	EPA 8260B	SUB-13
o-Xylene	ND	0.00500	mg/kg	1	P3G2405	07/14/23 14:36	07/14/23 14:36	EPA 8260B	SUB-13
Toluene	ND	0.00500	mg/kg	1	P3G2405	07/14/23 14:36	07/14/23 14:36	EPA 8260B	SUB-13
Xylenes (total)	ND	0.00500	mg/kg	1	P3G2405	07/14/23 14:36	07/14/23 14:36	EPA 8260B	SUB-13

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
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 P3G1114 - TX 1005										
Blank (P3G1114-BLK1)				Prepared: 07/11/23 Analyzed: 07/12/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*87.0*		*"*	*100*		*87.0*	*70-130*			
Surrogate: o-Terphenyl	*52.7*		*"*	*50.0*		*105*	*70-130*			
LCS (P3G1114-BS1)				Prepared & Analyzed: 07/11/23						
C6-C12	1040	25.0	mg/kg	1000		104	75-125			
>C12-C28	951	25.0	"	1000		95.1	75-125			
Surrogate: 1-Chlorooctane	*118*		*"*	*100*		*118*	*70-130*			
Surrogate: o-Terphenyl	*56.3*		*"*	*50.0*		*113*	*70-130*			
LCS Dup (P3G1114-BSD1)				Prepared: 07/11/23 Analyzed: 07/12/23						
C6-C12	1030	25.0	mg/kg	1000		103	75-125	0.911	20	
>C12-C28	946	25.0	"	1000		94.6	75-125	0.620	20	
Surrogate: 1-Chlorooctane	*118*		*"*	*100*		*118*	*70-130*			
Surrogate: o-Terphenyl	*57.6*		*"*	*50.0*		*115*	*70-130*			
Calibration Check (P3G1114-CCV1)				Prepared & Analyzed: 07/11/23						
C6-C12	543	25.0	mg/kg	500		109	85-115			
>C12-C28	515	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	*123*		*"*	*100*		*123*	*70-130*			
Surrogate: o-Terphenyl	*72.9*		*"*	*50.0*		*146*	*70-130*			*S-GC*
Calibration Check (P3G1114-CCV2)				Prepared: 07/11/23 Analyzed: 07/14/23						
C6-C12	497	25.0	mg/kg	500		99.4	85-115			
>C12-C28	490	25.0	"	500		97.9	85-115			
Surrogate: 1-Chlorooctane	*95.0*		*"*	*100*		*95.0*	*70-130*			
Surrogate: o-Terphenyl	*53.8*		*"*	*50.0*		*108*	*70-130*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
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 P3G1114 - TX 1005										
Calibration Check (P3G1114-CCV3)				Prepared: 07/11/23 Analyzed: 07/14/23						
C6-C12	503	25.0	mg/kg	500		101	85-115			
>C12-C28	500	25.0	"	500		100	85-115			
Surrogate: 1-Chlorooctane	*97.0*		*"*	*100*		*97.0*	*70-130*			
Surrogate: o-Terphenyl	*55.6*		*"*	*50.0*		*111*	*70-130*			
Duplicate (P3G1114-DUP1)		**Source: 3G11018-04**		Prepared: 07/11/23 Analyzed: 07/12/23						
C6-C12	14.0	29.8	mg/kg dry		15.8			12.5	20	
>C12-C28	12.0	29.8	"		13.0			7.89	20	
Surrogate: 1-Chlorooctane	*95.4*		*"*	*119*		*80.2*	*70-130*			
Surrogate: o-Terphenyl	*60.3*		*"*	*59.5*		*101*	*70-130*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
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 P3G1113 - * DEFAULT PREP *** **										
Blank (P3G1113-BLK1)				Prepared: 07/11/23 Analyzed: 07/12/23						
Chloride	ND	1.00	mg/kg							
LCS (P3G1113-BS1)				Prepared: 07/11/23 Analyzed: 07/12/23						
Chloride	18.8		mg/kg	18.0		104	90-110			
LCS Dup (P3G1113-BSD1)				Prepared: 07/11/23 Analyzed: 07/12/23						
Chloride	19.1		mg/kg	18.0		106	90-110	1.82	10	
Calibration Check (P3G1113-CCV1)				Prepared: 07/11/23 Analyzed: 07/12/23						
Chloride	19.0		mg/kg	20.0		95.2	90-110			
Calibration Check (P3G1113-CCV2)				Prepared: 07/11/23 Analyzed: 07/12/23						
Chloride	18.6		mg/kg	20.0		92.8	90-110			
Calibration Check (P3G1113-CCV3)				Prepared: 07/11/23 Analyzed: 07/12/23						
Chloride	20.1		mg/kg	20.0		101	90-110			
Matrix Spike (P3G1113-MS1)		**Source: 3G11022-01**		Prepared: 07/11/23 Analyzed: 07/12/23						
Chloride	113		mg/kg	100	19.1	93.9	80-120			
Matrix Spike (P3G1113-MS2)		**Source: 3G11011-01**		Prepared: 07/11/23 Analyzed: 07/12/23						
Chloride	103		mg/kg	100	3.68	99.0	80-120			
Matrix Spike Dup (P3G1113-MSD1)		**Source: 3G11022-01**		Prepared: 07/11/23 Analyzed: 07/12/23						
Chloride	114		mg/kg	100	19.1	94.8	80-120	0.766	20	
Matrix Spike Dup (P3G1113-MSD2)		**Source: 3G11011-01**		Prepared: 07/11/23 Analyzed: 07/12/23						
Chloride	102		mg/kg	100	3.68	97.8	80-120	1.18	20	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
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 P3G1206 - * DEFAULT PREP *** **										
Blank (P3G1206-BLK1)				Prepared & Analyzed: 07/12/23						
% Moisture	1.0	0.1	%							
Blank (P3G1206-BLK2)				Prepared & Analyzed: 07/12/23						
% Moisture	ND	0.1	%							
Blank (P3G1206-BLK3)				Prepared & Analyzed: 07/12/23						
% Moisture	ND	0.1	%							
Duplicate (P3G1206-DUP1)	**Source: 3G11013-01**			Prepared & Analyzed: 07/12/23						
% Moisture	5.0	0.1	%		4.0			22.2	20	
Duplicate (P3G1206-DUP2)	**Source: 3G11016-01**			Prepared & Analyzed: 07/12/23						
% Moisture	8.0	0.1	%		11.0			31.6	20	R3
Duplicate (P3G1206-DUP3)	**Source: 3G11020-04**			Prepared & Analyzed: 07/12/23						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P3G1206-DUP4)	**Source: 3G11022-06**			Prepared & Analyzed: 07/12/23						
% Moisture	11.0	0.1	%		11.0			0.00	20	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
Odessa TX, 79765	Project Manager: Blake Estep

Notes and Definitions

SUB-13	Subcontract of analyte/analysis to ALS Houston.
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.
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: Brent Barron Date: 7/24/2023

Brent Barron, Laboratory Director/Technical Director

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
Odessa TX, 79765	Project Manager: Blake Estep

PBELAB Permian Basin Environmental Lab, LP

1400 Rankin Hwy Midland Texas 79701 Phone: 432-686-7235

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: _blake@etechenv.com

Project Name: Culebra Bluff West 15 CT
Project #: 16949 Project Loc:
Area: PO#: 16949

☒ Bill Etech

Report Format: STANDARD:☐ TRRP:☐ NPDES:☐

(lab use only)
ORDER #: 3G1103

LAB # (lab use only)	FIELD CODE	Start Depth	End Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge / GW = Groundwater S=Soil/Solid / NP=Non-PotableSpecify Other	Analyze For: TPH: 418.1 (8015M) 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semi volatiles	BTEX (8021B/5030 or BTEX 8260)	RCI	N.O.R.M.	Chlorides	RUSH TAT(Pre-Schedule) 24, 48, 72 hrs	STANDARD TAT
1	Bottom Hole 1		4"	7-5-23	12:00	1	☒	☐	☐	☐	☐	☐	☐	☐	S	☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☒
2	Bottom Hole 2		4"	7-5-23	12:04	1	☒	☐	☐	☐	☐	☐	☐	☐	S	☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☒
3	Bottom Hole 3		4"	7-5-23	12:08	1	☒	☐	☐	☐	☐	☐	☐	☐	S	☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☒

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	7/10/23	16:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	7/10/23	16:00

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N N
Custody seals on container(s) Y N N
Custody seals on cooler(s) Y N N
Sample Hand Delivered Y N N
Sar by Sampler/Client Rep. ? Y N
Sar by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 4.2 CF 0 °C

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235
PBELAB_SUB_COC_V2

Project Manager: Brent Barron — **Project Name:** SUBCONTRACT

Company Name: PBEL — **Project #:**

Company Address: 1400 Rankin HWY — **Project Loc:**

City/State/Zip: Midland Texas 79701 — **PO #:**

Telephone No: 432-661-4184 — Fax No: — **Report Format:** X Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A — e-mail: brentbarron@pbelab.com

ORDER #:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: ICE	HNO_3 250 poly 1	HCl 3 40mL VOA	H_2SO_4 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	$Na_2S_2O_3$	NONE	NONE 3 AMBER VOAA VIALS	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: 8021B BTEX TOTAL CALC	24 HOUR	STANDARD
	3G11013-01			7/5/2023	12:00		1	X								S	X		X
	3G11013-02			7/5/2023	12:04		1	X								S	X		X
	3G11013-03			7/5/2023	12:08		1	X								S	X		X

SPECIAL INSTRUCTIONS:

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron					
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N
by Courier? UPS DHL FedEx Lone Star		

Temperature Upon Receipt:
Received: °C
Adjusted: °C Factor

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

PBELAB

Analytical Report

Prepared for:

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

Project: Culebra Bluff West 15 CTB
Project Number: 16949
Location: None Given

Lab Order Number: 3I26013

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 10/05/23

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
Odessa TX, 79765	Project Manager: Blake Estep

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Test Trench-1 @ 0"-6"	3I26013-01	Soil	09/21/23 14:15	09-26-2023 09:06
Test Trench-1 @ 48"	3I26013-02	Soil	09/21/23 14:30	09-26-2023 09:06
Test Trench-2 @ 0"-6"	3I26013-03	Soil	09/21/23 14:44	09-26-2023 09:06
Test Trench-2 @ 48"	3I26013-04	Soil	09/21/23 14:55	09-26-2023 09:06

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
Odessa TX, 79765	Project Manager: Blake Estep

Test Trench-1 @ 0''-6''

3I26013-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 09:27	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 09:27	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 09:27	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 09:27	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 09:27	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3J0206*	*10/02/23 10:58*	*10/03/23 09:27*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.6 %*	*80-120*		*P3J0206*	*10/02/23 10:58*	*10/03/23 09:27*	*EPA 8021B*	
Xylenes (total)	ND	0.00217	mg/kg dry	1	[CALC]	10/02/23 10:58	10/03/23 09:27	EPA 8021B	
Total BTEX	ND	0.00109	mg/kg dry	1	[CALC]	10/02/23 10:58	10/03/23 09:27	EPA 8021B	
Total Petroleum Hydrocarbons C6-C35 by TNRCC Method 1005									
C6-C12	ND	27.2	mg/kg dry	1	P3I2805	09/28/23 08:00	09/29/23 09:58	TX 1005	
>C12-C28	ND	27.2	mg/kg dry	1	P3I2805	09/28/23 08:00	09/29/23 09:58	TX 1005	
>C28-C35	ND	27.2	mg/kg dry	1	P3I2805	09/28/23 08:00	09/29/23 09:58	TX 1005	
Surrogate: 1-Chlorooctane		*93.5 %*	*70-130*		*P3I2805*	*09/28/23 08:00*	*09/29/23 09:58*	*TX 1005*	
Surrogate: o-Terphenyl		*98.9 %*	*70-130*		*P3I2805*	*09/28/23 08:00*	*09/29/23 09:58*	*TX 1005*	
Total Hydrocarbon nC6-nC35	ND	27.2	mg/kg dry	1	[CALC]	09/28/23 08:00	09/29/23 09:58	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2440**	10.9	mg/kg dry	10	P3I2903	09/29/23 09:42	09/30/23 14:23	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3I2703	09/27/23 08:37	09/27/23 08:42	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
Odessa TX, 79765	Project Manager: Blake Estep

Test Trench-1 @ 48''

3I26013-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00112	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 09:51	EPA 8021B	
Toluene	ND	0.00112	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 09:51	EPA 8021B	
Ethylbenzene	ND	0.00112	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 09:51	EPA 8021B	
Xylene (p/m)	ND	0.00225	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 09:51	EPA 8021B	
Xylene (o)	ND	0.00112	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 09:51	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.4 %*	*80-120*		*P3J0206*	*10/02/23 10:58*	*10/03/23 09:51*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*107 %*	*80-120*		*P3J0206*	*10/02/23 10:58*	*10/03/23 09:51*	*EPA 8021B*	
Xylenes (total)	ND	0.00225	mg/kg dry	1	[CALC]	10/02/23 10:58	10/03/23 09:51	EPA 8021B	
Total BTEX	ND	0.00112	mg/kg dry	1	[CALC]	10/02/23 10:58	10/03/23 09:51	EPA 8021B	
Total Petroleum Hydrocarbons C6-C35 by TNRCC Method 1005									
C6-C12	ND	28.1	mg/kg dry	1	P3I2805	09/28/23 08:00	09/29/23 10:23	TX 1005	
>C12-C28	ND	28.1	mg/kg dry	1	P3I2805	09/28/23 08:00	09/29/23 10:23	TX 1005	
>C28-C35	ND	28.1	mg/kg dry	1	P3I2805	09/28/23 08:00	09/29/23 10:23	TX 1005	
Surrogate: 1-Chlorooctane		*106 %*	*70-130*		*P3I2805*	*09/28/23 08:00*	*09/29/23 10:23*	*TX 1005*	
Surrogate: o-Terphenyl		*114 %*	*70-130*		*P3I2805*	*09/28/23 08:00*	*09/29/23 10:23*	*TX 1005*	
Total Hydrocarbon nC6-nC35	ND	28.1	mg/kg dry	1	[CALC]	09/28/23 08:00	09/29/23 10:23	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**532**	11.2	mg/kg dry	10	P3I2903	09/29/23 09:42	09/30/23 15:35	EPA 300.0	
% Moisture	**11.0**	0.1	%	1	P3I2703	09/27/23 08:37	09/27/23 08:42	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
Odessa TX, 79765	Project Manager: Blake Estep

Test Trench-2 @ 0''-6''

3I26013-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 10:16	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 10:16	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 10:16	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 10:16	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 10:16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.3 %*	*80-120*		*P3J0206*	*10/02/23 10:58*	*10/03/23 10:16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3J0206*	*10/02/23 10:58*	*10/03/23 10:16*	*EPA 8021B*	
Xylenes (total)	ND	0.00222	mg/kg dry	1	[CALC]	10/02/23 10:58	10/03/23 10:16	EPA 8021B	
Total BTEX	ND	0.00111	mg/kg dry	1	[CALC]	10/02/23 10:58	10/03/23 10:16	EPA 8021B	
Total Petroleum Hydrocarbons C6-C35 by TNRCC Method 1005									
C6-C12	ND	27.8	mg/kg dry	1	P3I2805	09/28/23 08:00	09/29/23 10:49	TX 1005	
>C12-C28	ND	27.8	mg/kg dry	1	P3I2805	09/28/23 08:00	09/29/23 10:49	TX 1005	
>C28-C35	ND	27.8	mg/kg dry	1	P3I2805	09/28/23 08:00	09/29/23 10:49	TX 1005	
Surrogate: 1-Chlorooctane		*70.1 %*	*70-130*		*P3I2805*	*09/28/23 08:00*	*09/29/23 10:49*	*TX 1005*	
Surrogate: o-Terphenyl		*75.3 %*	*70-130*		*P3I2805*	*09/28/23 08:00*	*09/29/23 10:49*	*TX 1005*	
Total Hydrocarbon nC6-nC35	ND	27.8	mg/kg dry	1	[CALC]	09/28/23 08:00	09/29/23 10:49	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**232**	11.1	mg/kg dry	10	P3I2903	09/29/23 09:42	09/30/23 15:49	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P3I2703	09/27/23 08:37	09/27/23 08:42	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
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Odessa TX, 79765	Project Manager: Blake Estep

Test Trench-2 @ 48''

3I26013-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 10:40	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 10:40	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 10:40	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 10:40	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3J0206	10/02/23 10:58	10/03/23 10:40	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.1 %*	*80-120*		*P3J0206*	*10/02/23 10:58*	*10/03/23 10:40*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		*P3J0206*	*10/02/23 10:58*	*10/03/23 10:40*	*EPA 8021B*	
Xylenes (total)	ND	0.00222	mg/kg dry	1	[CALC]	10/02/23 10:58	10/03/23 10:40	EPA 8021B	
Total BTEX	ND	0.00111	mg/kg dry	1	[CALC]	10/02/23 10:58	10/03/23 10:40	EPA 8021B	
Total Petroleum Hydrocarbons C6-C35 by TNRCC Method 1005									
C6-C12	ND	27.8	mg/kg dry	1	P3I2805	09/28/23 08:00	09/29/23 11:15	TX 1005	
>C12-C28	ND	27.8	mg/kg dry	1	P3I2805	09/28/23 08:00	09/29/23 11:15	TX 1005	
>C28-C35	ND	27.8	mg/kg dry	1	P3I2805	09/28/23 08:00	09/29/23 11:15	TX 1005	
Surrogate: 1-Chlorooctane		*70.6 %*	*70-130*		*P3I2805*	*09/28/23 08:00*	*09/29/23 11:15*	*TX 1005*	
Surrogate: o-Terphenyl		*75.3 %*	*70-130*		*P3I2805*	*09/28/23 08:00*	*09/29/23 11:15*	*TX 1005*	
Total Hydrocarbon nC6-nC35	ND	27.8	mg/kg dry	1	[CALC]	09/28/23 08:00	09/29/23 11:15	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**248**	11.1	mg/kg dry	10	P3I2903	09/29/23 09:42	09/30/23 16:03	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P3I2703	09/27/23 08:37	09/27/23 08:42	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
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 P3J0206 - * DEFAULT PREP *** **										
Blank (P3J0206-BLK1)				Prepared & Analyzed: 10/02/23						
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	*0.114*		"	*0.120*		*95.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.127*		"	*0.120*		*106*	*80-120*			
LCS (P3J0206-BS1)				Prepared & Analyzed: 10/02/23						
Benzene	0.0964	0.00100	mg/kg	0.100		96.4	80-120			
Toluene	0.0919	0.00100	"	0.100		91.9	80-120			
Ethylbenzene	0.0986	0.00100	"	0.100		98.6	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.6	80-120			
Xylene (o)	0.0859	0.00100	"	0.100		85.9	80-120			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.125*		"	*0.120*		*105*	*80-120*			
LCS Dup (P3J0206-BSD1)				Prepared & Analyzed: 10/02/23						
Benzene	0.108	0.00100	mg/kg	0.100		108	80-120	11.3	20	
Toluene	0.105	0.00100	"	0.100		105	80-120	12.9	20	
Ethylbenzene	0.112	0.00100	"	0.100		112	80-120	12.9	20	
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120	11.3	20	
Xylene (o)	0.0981	0.00100	"	0.100		98.1	80-120	13.3	20	
Surrogate: 4-Bromofluorobenzene	*0.125*		"	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*96.8*	*80-120*			
Calibration Blank (P3J0206-CCB1)				Prepared & Analyzed: 10/02/23						
Benzene	0.190		ug/kg							
Toluene	0.240		"							
Ethylbenzene	0.160		"							
Xylene (p/m)	0.170		"							
Xylene (o)	0.240		"							
Surrogate: 1,4-Difluorobenzene	*0.115*		"	*0.120*		*95.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.129*		"	*0.120*		*108*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
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 P3J0206 - * DEFAULT PREP *** **										
Calibration Blank (P3J0206-CCB2)				Prepared: 10/02/23 Analyzed: 10/03/23						
Benzene	0.100		ug/kg							
Toluene	0.370		"							
Ethylbenzene	0.0700		"							
Xylene (p/m)	0.160		"							
Xylene (o)	0.230		"							
Surrogate: 4-Bromofluorobenzene	*0.133*		*"*	*0.120*		*111*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*98.9*	*80-120*			
Calibration Check (P3J0206-CCV1)				Prepared & Analyzed: 10/02/23						
Benzene	0.104	0.00100	mg/kg	0.100		104	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.211	0.00200	"	0.200		106	80-120			
Xylene (o)	0.0957	0.00100	"	0.100		95.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*106*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*97.1*	*75-125*			
Calibration Check (P3J0206-CCV2)				Prepared & Analyzed: 10/02/23						
Benzene	0.115	0.00100	mg/kg	0.100		115	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.225	0.00200	"	0.200		112	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*98.9*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*75-125*			
Calibration Check (P3J0206-CCV3)				Prepared: 10/02/23 Analyzed: 10/03/23						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.109	0.00100	"	0.100		109	80-120			
Xylene (p/m)	0.217	0.00200	"	0.200		108	80-120			
Xylene (o)	0.103	0.00100	"	0.100		103	80-120			
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.120*		*103*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.4*	*75-125*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
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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 P3J0206 - * DEFAULT PREP *** **										
Matrix Spike (P3J0206-MS1)	**Source: 3I26011-05**			Prepared: 10/02/23 Analyzed: 10/03/23						
Benzene	0.103	0.00114	mg/kg dry	0.114	ND	90.8	80-120			
Toluene	0.0926	0.00114	"	0.114	ND	81.5	80-120			
Ethylbenzene	0.0909	0.00114	"	0.114	ND	80.0	80-120			
Xylene (p/m)	0.175	0.00227	"	0.227	ND	77.2	80-120			QM-05
Xylene (o)	0.0758	0.00114	"	0.114	ND	66.7	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.133*		"	*0.136*		*97.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.141*		"	*0.136*		*103*	*80-120*			
Matrix Spike Dup (P3J0206-MSD1)	**Source: 3I26011-05**			Prepared: 10/02/23 Analyzed: 10/03/23						
Benzene	0.102	0.00114	mg/kg dry	0.114	ND	89.6	80-120	1.33	20	
Toluene	0.0914	0.00114	"	0.114	ND	80.4	80-120	1.30	20	
Ethylbenzene	0.0906	0.00114	"	0.114	ND	79.7	80-120	0.300	20	QM-05
Xylene (p/m)	0.176	0.00227	"	0.227	ND	77.4	80-120	0.226	20	QM-05
Xylene (o)	0.0754	0.00114	"	0.114	ND	66.3	80-120	0.541	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.133*		"	*0.136*		*97.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.141*		"	*0.136*		*103*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
Odessa TX, 79765	Project Manager: Blake Estep

Total Petroleum Hydrocarbons C6-C35 by TNRCC Method 1005 - 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 P3I2805 - TX 1005										
Blank (P3I2805-BLK1)				Prepared: 09/28/23 Analyzed: 09/29/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*121*		*"*	*100*		*121*	*70-130*			
Surrogate: o-Terphenyl	*62.9*		*"*	*50.0*		*126*	*70-130*			
LCS (P3I2805-BS1)				Prepared: 09/28/23 Analyzed: 09/29/23						
C6-C12	1050	25.0	mg/kg	1000		105	75-125			
>C12-C28	988	25.0	"	1000		98.8	75-125			
Surrogate: 1-Chlorooctane	*126*		*"*	*100*		*126*	*70-130*			
Surrogate: o-Terphenyl	*59.3*		*"*	*50.0*		*119*	*70-130*			
LCS Dup (P3I2805-BSD1)				Prepared: 09/28/23 Analyzed: 09/29/23						
C6-C12	1050	25.0	mg/kg	1000		105	75-125	0.128	20	
>C12-C28	983	25.0	"	1000		98.3	75-125	0.544	20	
Surrogate: 1-Chlorooctane	*128*		*"*	*100*		*128*	*70-130*			
Surrogate: o-Terphenyl	*59.8*		*"*	*50.0*		*120*	*70-130*			
Calibration Check (P3I2805-CCV1)				Prepared: 09/28/23 Analyzed: 09/29/23						
C6-C12	647	25.0	mg/kg	600		108	85-115			
>C12-C28	636	25.0	"	600		106	85-115			
Surrogate: 1-Chlorooctane	*130*		*"*	*100*		*130*	*70-130*			
Surrogate: o-Terphenyl	*63.1*		*"*	*50.0*		*126*	*70-130*			
Calibration Check (P3I2805-CCV2)				Prepared: 09/28/23 Analyzed: 09/29/23						
C6-C12	675	25.0	mg/kg	600		113	85-115			
>C12-C28	666	25.0	"	600		111	85-115			
Surrogate: 1-Chlorooctane	*137*		*"*	*100*		*137*	*70-130*			*S-GC*
Surrogate: o-Terphenyl	*63.9*		*"*	*50.0*		*128*	*70-130*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
Odessa TX, 79765	Project Manager: Blake Estep

Total Petroleum Hydrocarbons C6-C35 by TNRCC Method 1005 - 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 P3I2805 - TX 1005										
Duplicate (P3I2805-DUP1)	**Source: 3I26014-02**		Prepared: 09/28/23 Analyzed: 09/29/23							
C6-C12	ND	27.5	mg/kg dry		18.6				20	
>C12-C28	69.6	27.5	"		71.1			2.11	20	
Surrogate: 1-Chlorooctane	*123*		*"*	*110*		*112*	*70-130*			
Surrogate: o-Terphenyl	*65.9*		*"*	*54.9*		*120*	*70-130*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
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 P3I2703 - * DEFAULT PREP *** **										
Blank (P3I2703-BLK1)				Prepared & Analyzed: 09/27/23						
% Moisture	ND	0.1	%							
Blank (P3I2703-BLK2)				Prepared & Analyzed: 09/27/23						
% Moisture	ND	0.1	%							
Blank (P3I2703-BLK3)				Prepared & Analyzed: 09/27/23						
% Moisture	ND	0.1	%							
Blank (P3I2703-BLK4)				Prepared & Analyzed: 09/27/23						
% Moisture	ND	0.1	%							
Blank (P3I2703-BLK5)				Prepared & Analyzed: 09/27/23						
% Moisture	ND	0.1	%							
Blank (P3I2703-BLK6)				Prepared & Analyzed: 09/27/23						
% Moisture	ND	0.1	%							
Duplicate (P3I2703-DUP1)		**Source: 3I26002-10**		Prepared & Analyzed: 09/27/23						
% Moisture	15.0	0.1	%		11.0			30.8	20	R3
Duplicate (P3I2703-DUP2)		**Source: 3I26002-20**		Prepared & Analyzed: 09/27/23						
% Moisture	9.0	0.1	%		10.0			10.5	20	
Duplicate (P3I2703-DUP3)		**Source: 3I26006-01**		Prepared & Analyzed: 09/27/23						
% Moisture	11.0	0.1	%		10.0			9.52	20	
Duplicate (P3I2703-DUP4)		**Source: 3I26006-11**		Prepared & Analyzed: 09/27/23						
% Moisture	18.0	0.1	%		18.0			0.00	20	

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General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3I2703 - * DEFAULT PREP *** **										
Duplicate (P3I2703-DUP5)		**Source: 3I26009-02**		Prepared & Analyzed: 09/27/23						
% Moisture	4.0	0.1	%		2.0			66.7	20	R3
Duplicate (P3I2703-DUP6)		**Source: 3I26011-08**		Prepared & Analyzed: 09/27/23						
% Moisture	8.0	0.1	%		9.0			11.8	20	
Duplicate (P3I2703-DUP7)		**Source: 3I26013-02**		Prepared & Analyzed: 09/27/23						
% Moisture	11.0	0.1	%		11.0			0.00	20	
Duplicate (P3I2703-DUP8)		**Source: 3I26014-08**		Prepared & Analyzed: 09/27/23						
% Moisture	13.0	0.1	%		14.0			7.41	20	
Duplicate (P3I2703-DUP9)		**Source: 3I26017-01**		Prepared & Analyzed: 09/27/23						
% Moisture	1.0	0.1	%		1.0			0.00	20	
Duplicate (P3I2703-DUPA)		**Source: 3I26022-01**		Prepared & Analyzed: 09/27/23						
% Moisture	4.0	0.1	%		4.0			0.00	20	
Batch P3I2903 - * DEFAULT PREP *** **										
Blank (P3I2903-BLK1)				Prepared: 09/29/23 Analyzed: 09/30/23						
Chloride	ND	1.00	mg/kg							
LCS (P3I2903-BS1)				Prepared: 09/29/23 Analyzed: 09/30/23						
Chloride	15.3		mg/kg	16.0		95.5	90-110			
Calibration Check (P3I2903-CCV1)				Prepared: 09/29/23 Analyzed: 09/30/23						
Chloride	16.0		mg/kg	16.0		100	90-110			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
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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 P3I2903 - * DEFAULT PREP *** **										
Calibration Check (P3I2903-CCV2)				Prepared: 09/29/23 Analyzed: 09/30/23						
Chloride	17.0		mg/kg	16.0		106	90-110			
Matrix Spike (P3I2903-MS1)		**Source: 3I26011-01**		Prepared: 09/29/23 Analyzed: 09/30/23						
Chloride	120		mg/kg	100	21.3	99.2	80-120			
Matrix Spike (P3I2903-MS2)		**Source: 3I26014-11**		Prepared: 09/29/23 Analyzed: 09/30/23						
Chloride	140		mg/kg	100	49.9	89.9	80-120			
Matrix Spike Dup (P3I2903-MSD1)		**Source: 3I26011-01**		Prepared: 09/29/23 Analyzed: 09/30/23						
Chloride	120		mg/kg	100	21.3	98.3	80-120	0.783	20	
Matrix Spike Dup (P3I2903-MSD2)		**Source: 3I26014-11**		Prepared: 09/29/23 Analyzed: 09/30/23						
Chloride	145		mg/kg	100	49.9	94.6	80-120	3.31	20	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
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Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
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.
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: Brent Barron Date: 10/5/2023

Brent Barron, Laboratory Director/Technical Director

E Tech Environmental & Safety Solutions, Inc. [1]	Project: Culebra Bluff West 15 CTB
13000 West County Road 100	Project Number: 16949
Odessa TX, 79765	Project Manager: Blake Estep

PBELAB Permian Basin Environmental Lab, LP
1400 Rankin Hwy Midland Texas 79701 Phone: 432-686-7235

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

1 of 1

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: blake@etechenv.com

Project Name: Culebra Bluff West 1S CTB
Project #: 16949 Project Loc:
Area: PO#: 16949
☑ Bill Etech

Report Format: STANDARD: ☐ TRRP: ☐ NPDES: ☐

(lab use only)
ORDER #: 3I26013

Preservation & # of Containers / Matrix / Analyze For: (TCLP: ☐ ☐ ☐ ☐ / TOTAL: ☐ ☐ ☐ ☐ over Metals, Volatiles, Semi volatiles, BTEX)

LAB # (lab use only)	FIELD CODE	Start Depth	End Depth	Date Sampled	Time Sampled	No. of Containers	Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-PotableSpecify Other	TPH: 418.1 [✓ 8015M] 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semi volatiles	[✓ BTEX 8021B]/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides			RUSH TAT(Pre-Schedule) 24, 48, 72 hrs	STANDARD TAT
1	Test Trench - 1	0"	6"	9-21-23	1415	1	☒	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☐	☒
2	Test Trench - 1		48"	|	1430	1	☒	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☐	☒
3	Test Trench - 2	0"	6"	|	1445	1	☒	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☐	☒
4	Test Trench - 2		48"	|	1455	1	☒	☐	☐	☐	☐	☐	☐	☐	☐	☒	☐	☒	☐	☐	☐	☐	☐	☐	☒	☐	☐	☒	☐	☐	☐	☒
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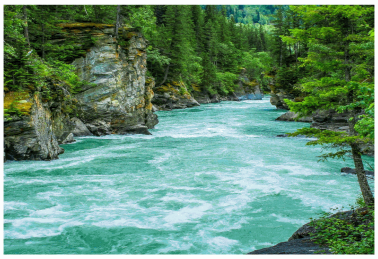
Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	9/26				
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date 9-26	Time 900

Laboratory Comments:
Sample Containers Intact? [✓ Y] N
VOCs Free of Headspace? [✓ Y] N
Custody seals on container(s) [✓ Y] N
Custody seals on cooler(s) [✓ Y] N
Sample Hand Delivered [✓ Y] N
Sar by Sampler/Client Rep. ? [✓ Y] N
Sar by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt: 11.5 °C

Report to:

Abraham Valladares



5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Chevron

Project Name:	Culebra Bluff West 15 CTB
Work Order:	E410124
Job Number:	23077-0001
Received:	10/14/2024

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/22/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/22/24

Abraham Valladares
322 Road 3100
Aztec, NM 87410

Project Name: Culebra Bluff West 15 CTB
Workorder: E410124
Date Received: 10/14/2024 8:00:00AM

Abraham Valladares,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/14/2024 8:00:00AM, under the Project Name: Culebra Bluff West 15 CTB.

The analytical test results summarized in this report with the Project Name: Culebra Bluff West 15 CTB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Chevron	Project Name:	Culebra Bluff West 15 CTB	**Reported:**
322 Road 3100	Project Number:	23077-0001	
Aztec NM, 87410	Project Manager:	Abraham Valladares	10/22/24 16:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 0.5'	E410124-01A	Soil	10/10/24	10/14/24	Glass Jar, 2 oz.
BH01 1'	E410124-02A	Soil	10/10/24	10/14/24	Glass Jar, 2 oz.
BH02 0.5'	E410124-03A	Soil	10/10/24	10/14/24	Glass Jar, 2 oz.
BH03 0.5'	E410124-04A	Soil	10/10/24	10/14/24	Glass Jar, 2 oz.

Case Narative:

Project Name: Culebra Bluff West 15 CTB
Workorder:E410124
Date Received: 10/14/24 08:00

The client requested the following sample(s) to be re-extracted and re-analyzed:

Sample Name	Laboratory ID	Analysis
BH01 @ 1'	E410124-02	300.0 Chloride

The analytical test results summarized in this revised report represent this re-extration and re-analysis.

If you have any questions reguarding this report please feel free to contact Envirotech Inc.

Respectfully,

Walter Hinchman

Sample Data

Chevron	Project Name:	Culebra Bluff West 15 CTB	
322 Road 3100	Project Number:	23077-0001	**Reported:**
Aztec NM, 87410	Project Manager:	Abraham Valladares	10/22/2024 4:41:54PM

BH01 0.5'

E410124-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2442006
Benzene	ND	0.0250	1	10/14/24	10/15/24	
Ethylbenzene	ND	0.0250	1	10/14/24	10/15/24	
Toluene	ND	0.0250	1	10/14/24	10/15/24	
o-Xylene	ND	0.0250	1	10/14/24	10/15/24	
p,m-Xylene	ND	0.0500	1	10/14/24	10/15/24	
Total Xylenes	ND	0.0250	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene		*98.0 %*	*70-130*	*10/14/24*	*10/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*70-130*	*10/14/24*	*10/15/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*10/14/24*	*10/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2442006
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene		*98.0 %*	*70-130*	*10/14/24*	*10/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*70-130*	*10/14/24*	*10/15/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*10/14/24*	*10/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2442028
Diesel Range Organics (C10-C28)	ND	25.0	1	10/14/24	10/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/14/24	10/15/24	
Surrogate: n-Nonane		*186 %*	*50-200*	*10/14/24*	*10/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2442019
Chloride	**583**	40.0	2	10/14/24	10/14/24	

Sample Data

Chevron	Project Name:	Culebra Bluff West 15 CTB	
322 Road 3100	Project Number:	23077-0001	**Reported:**
Aztec NM, 87410	Project Manager:	Abraham Valladares	10/22/2024 4:41:54PM

BH01 1'

E410124-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2442006
Benzene	ND	0.0250	1	10/14/24	10/15/24	
Ethylbenzene	ND	0.0250	1	10/14/24	10/15/24	
Toluene	ND	0.0250	1	10/14/24	10/15/24	
o-Xylene	ND	0.0250	1	10/14/24	10/15/24	
p,m-Xylene	ND	0.0500	1	10/14/24	10/15/24	
Total Xylenes	ND	0.0250	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene		*96.7 %*	*70-130*	*10/14/24*	*10/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.6 %*	*70-130*	*10/14/24*	*10/15/24*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*10/14/24*	*10/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2442006
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene		*96.7 %*	*70-130*	*10/14/24*	*10/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.6 %*	*70-130*	*10/14/24*	*10/15/24*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*10/14/24*	*10/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2442028
Diesel Range Organics (C10-C28)	ND	25.0	1	10/14/24	10/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/14/24	10/15/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*10/14/24*	*10/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2443022
Chloride	**618**	20.0	1	10/21/24	10/21/24	

Sample Data

Chevron	Project Name:	Culebra Bluff West 15 CTB	
322 Road 3100	Project Number:	23077-0001	**Reported:**
Aztec NM, 87410	Project Manager:	Abraham Valladares	10/22/2024 4:41:54PM

BH02 0.5'

E410124-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2442006
Benzene	ND	0.0250	1	10/14/24	10/15/24	
Ethylbenzene	ND	0.0250	1	10/14/24	10/15/24	
Toluene	ND	0.0250	1	10/14/24	10/15/24	
o-Xylene	ND	0.0250	1	10/14/24	10/15/24	
p,m-Xylene	ND	0.0500	1	10/14/24	10/15/24	
Total Xylenes	ND	0.0250	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene		*97.9 %*	*70-130*	*10/14/24*	*10/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*10/14/24*	*10/15/24*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*10/14/24*	*10/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2442006
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene		*97.9 %*	*70-130*	*10/14/24*	*10/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*10/14/24*	*10/15/24*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*10/14/24*	*10/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2442028
Diesel Range Organics (C10-C28)	ND	25.0	1	10/14/24	10/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/14/24	10/15/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*10/14/24*	*10/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2442019
Chloride	**570**	20.0	1	10/14/24	10/15/24	

Sample Data

Chevron	Project Name:	Culebra Bluff West 15 CTB	
322 Road 3100	Project Number:	23077-0001	**Reported:**
Aztec NM, 87410	Project Manager:	Abraham Valladares	10/22/2024 4:41:54PM

BH03 0.5'

E410124-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2442006
Benzene	ND	0.0250	1	10/14/24	10/15/24	
Ethylbenzene	ND	0.0250	1	10/14/24	10/15/24	
Toluene	ND	0.0250	1	10/14/24	10/15/24	
o-Xylene	ND	0.0250	1	10/14/24	10/15/24	
p,m-Xylene	ND	0.0500	1	10/14/24	10/15/24	
Total Xylenes	ND	0.0250	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene		*97.0 %*	*70-130*	*10/14/24*	*10/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*10/14/24*	*10/15/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*10/14/24*	*10/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2442006
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/14/24	10/15/24	
Surrogate: Bromofluorobenzene		*97.0 %*	*70-130*	*10/14/24*	*10/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*10/14/24*	*10/15/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*10/14/24*	*10/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF			Batch: 2442028
Diesel Range Organics (C10-C28)	ND	25.0	1	10/14/24	10/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/14/24	10/15/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*10/14/24*	*10/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2442019
Chloride	**293**	20.0	1	10/14/24	10/15/24	

QC Summary Data

Chevron	Project Name:	Culebra Bluff West 15 CTB	**Reported:**
322 Road 3100	Project Number:	23077-0001	
Aztec NM, 87410	Project Manager:	Abraham Valladares	10/22/2024 4:41:54PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2442006-BLK1)									Prepared: 10/14/24 Analyzed: 10/15/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	*0.487*		*0.500*		*97.3*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.529*		*0.500*		*106*	*70-130*			
Surrogate: Toluene-d8	*0.514*		*0.500*		*103*	*70-130*			
LCS (2442006-BS1)									Prepared: 10/14/24 Analyzed: 10/15/24
Benzene	2.35	0.0250	2.50		94.1	70-130			
Ethylbenzene	2.52	0.0250	2.50		101	70-130			
Toluene	2.42	0.0250	2.50		96.9	70-130			
o-Xylene	2.53	0.0250	2.50		101	70-130			
p,m-Xylene	5.07	0.0500	5.00		101	70-130			
Total Xylenes	7.60	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	*0.485*		*0.500*		*96.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.497*		*0.500*		*99.4*	*70-130*			
Surrogate: Toluene-d8	*0.512*		*0.500*		*102*	*70-130*			
Matrix Spike (2442006-MS1)				**Source: E410119-04**					Prepared: 10/14/24 Analyzed: 10/15/24
Benzene	2.41	0.0250	2.50	ND	96.5	48-131			
Ethylbenzene	2.56	0.0250	2.50	ND	102	45-135			
Toluene	2.48	0.0250	2.50	ND	99.2	48-130			
o-Xylene	2.51	0.0250	2.50	ND	100	43-135			
p,m-Xylene	5.02	0.0500	5.00	ND	100	43-135			
Total Xylenes	7.52	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	*0.482*		*0.500*		*96.4*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.473*		*0.500*		*94.6*	*70-130*			
Surrogate: Toluene-d8	*0.511*		*0.500*		*102*	*70-130*			
Matrix Spike Dup (2442006-MSD1)				**Source: E410119-04**					Prepared: 10/14/24 Analyzed: 10/15/24
Benzene	2.42	0.0250	2.50	ND	96.7	48-131	0.248	23	
Ethylbenzene	2.53	0.0250	2.50	ND	101	45-135	1.04	27	
Toluene	2.46	0.0250	2.50	ND	98.6	48-130	0.607	24	
o-Xylene	2.53	0.0250	2.50	ND	101	43-135	1.05	27	
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135	1.71	27	
Total Xylenes	7.64	0.0250	7.50	ND	102	43-135	1.49	27	
Surrogate: Bromofluorobenzene	*0.483*		*0.500*		*96.6*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.505*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.508*		*0.500*		*102*	*70-130*			

QC Summary Data

Chevron	Project Name:	Culebra Bluff West 15 CTB	**Reported:**
322 Road 3100	Project Number:	23077-0001	
Aztec NM, 87410	Project Manager:	Abraham Valladares	10/22/2024 4:41:54PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2442006-BLK1)									Prepared: 10/14/24 Analyzed: 10/15/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.487*		*0.500*		*97.3*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.529*		*0.500*		*106*	*70-130*			
Surrogate: Toluene-d8	*0.514*		*0.500*		*103*	*70-130*			
LCS (2442006-BS2)									Prepared: 10/14/24 Analyzed: 10/15/24
Gasoline Range Organics (C6-C10)	54.5	20.0	50.0		109	70-130			
Surrogate: Bromofluorobenzene	*0.505*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.489*		*0.500*		*97.7*	*70-130*			
Surrogate: Toluene-d8	*0.525*		*0.500*		*105*	*70-130*			
Matrix Spike (2442006-MS2)				**Source: E410119-04**					Prepared: 10/14/24 Analyzed: 10/15/24
Gasoline Range Organics (C6-C10)	54.6	20.0	50.0	ND	109	70-130			
Surrogate: Bromofluorobenzene	*0.502*		*0.500*		*100*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.505*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.516*		*0.500*		*103*	*70-130*			
Matrix Spike Dup (2442006-MSD2)				**Source: E410119-04**					Prepared: 10/14/24 Analyzed: 10/15/24
Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130	1.75	20	
Surrogate: Bromofluorobenzene	*0.492*		*0.500*		*98.3*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.469*		*0.500*		*93.8*	*70-130*			
Surrogate: Toluene-d8	*0.514*		*0.500*		*103*	*70-130*			

QC Summary Data

Chevron	Project Name:	Culebra Bluff West 15 CTB	**Reported:**
322 Road 3100	Project Number:	23077-0001	
Aztec NM, 87410	Project Manager:	Abraham Valladares	10/22/2024 4:41:54PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2442028-BLK1)									Prepared: 10/14/24 Analyzed: 10/14/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*45.5*		*50.0*		*91.1*	*50-200*			
LCS (2442028-BS1)									Prepared: 10/14/24 Analyzed: 10/14/24
Diesel Range Organics (C10-C28)	249	25.0	250		99.6	38-132			
Surrogate: n-Nonane	*48.9*		*50.0*		*97.7*	*50-200*			
Matrix Spike (2442028-MS1)				**Source: E410120-01**					Prepared: 10/14/24 Analyzed: 10/14/24
Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	*54.7*		*50.0*		*109*	*50-200*			
Matrix Spike Dup (2442028-MSD1)				**Source: E410120-01**					Prepared: 10/14/24 Analyzed: 10/14/24
Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132	8.00	20	
Surrogate: n-Nonane	*57.4*		*50.0*		*115*	*50-200*			

QC Summary Data

Chevron	Project Name:	Culebra Bluff West 15 CTB	**Reported:**
322 Road 3100	Project Number:	23077-0001	
Aztec NM, 87410	Project Manager:	Abraham Valladares	10/22/2024 4:41:54PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2442019-BLK1)									Prepared: 10/14/24 Analyzed: 10/14/24
Chloride	ND	20.0							
LCS (2442019-BS1)									Prepared: 10/14/24 Analyzed: 10/14/24
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2442019-MS1)				**Source: E410118-03**					Prepared: 10/14/24 Analyzed: 10/14/24
Chloride	586	200	250	347	95.9	80-120			
Matrix Spike Dup (2442019-MSD1)				**Source: E410118-03**					Prepared: 10/14/24 Analyzed: 10/14/24
Chloride	595	200	250	347	99.5	80-120	1.53	20	

QC Summary Data

Chevron	Project Name:	Culebra Bluff West 15 CTB	**Reported:**
322 Road 3100	Project Number:	23077-0001	
Aztec NM, 87410	Project Manager:	Abraham Valladares	10/22/2024 4:41:54PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2443022-BLK1)									Prepared: 10/21/24 Analyzed: 10/21/24
Chloride	ND	20.0							
LCS (2443022-BS1)									Prepared: 10/21/24 Analyzed: 10/21/24
Chloride	256	20.0	250		103	90-110			
Matrix Spike (2443022-MS1)				**Source: E410231-02**					Prepared: 10/21/24 Analyzed: 10/21/24
Chloride	6410	200	250	6020	158	80-120			M4
Matrix Spike Dup (2443022-MSD1)				**Source: E410231-02**					Prepared: 10/21/24 Analyzed: 10/21/24
Chloride	6480	200	250	6020	185	80-120	1.08	20	M4

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Definitions and Notes

Chevron	Project Name:	Culebra Bluff West 15 CTB	
322 Road 3100	Project Number:	23077-0001	**Reported:**
Aztec NM, 87410	Project Manager:	Abraham Valladares	10/22/24 16:41

M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Client: Chevron USA, Inc.	**Bill To**
Client name: Amy Barnhill	Attention: Joseph Hernandez
Project Manager: Abraham Valladares	Address: 13000 W County Rd 100
Project: Culebra Bluff West 15 CTB	City, State, Zip: Odessa, TX 79765
Etech Project #: 16949	Phone: (432)563-2200
Phone: (432)305-6413	Email: erick@etechenv.com, joseph@etechenv.com
Email: abevalladares@etechenv.com	Company Name: Etech Environmental & Safety Solutions
Collected by: Arturo Delgado	Incident ID: nAPP2226533583

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E410124	23077.0001				5 day TAT		
							RCRA

State: NM / CO / UT / AZ / TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX		Remarks
10:04	10/10/2024	S	1	BH01	1	0.5'								X				
10:06	10/10/2024	S	1	BH01	2	1'								X				
10:08	10/10/2024	S	1	BH02	3	0.5'								X				
10:10	10/10/2024	S	1	BH03	4	0.5'								X				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: EK

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
ARG	10-10-24	10:36	Michelle Gonzales	10-11-24	1036
Michelle Gonzales	10-11-24	1635	J.M.	10-11-24	1700
J.M.	10-11-24	2400	Caitlin Mar	10-14-24	8:00

Lab Use Only
Received on ice: (Y) / N
T1 ______ T2 ______ T3 ______
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ________
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 10/14/2024 10:34:21AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Chevron	Date Received:	10/14/24 08:00	Work Order ID:	E410124
Phone:	432-305-6413	Date Logged In:	10/11/24 14:57	Logged In By:	Caitlin Mars
Email:	abevalladares@etechenv.com	Due Date:	10/18/24 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

APPENDIX F

Correspondence & Notifications

Outlook

RE: [EXTERNAL] Confirmation Sampling

From Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Date Fri 6/30/2023 2:41 PM
To Blake Estep <blake@etechenv.com>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

You don't often get email from michael.buchanan@emnrd.nm.gov. Learn why this is important

Received.

Thank you for the notification. Please 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. Have a great weekend as well, and Happy 4th!

Mike Buchanan ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE | Albuquerque, NM 87113
| michael.buchanan@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Blake Estep <blake@etechenv.com>
Sent: Friday, June 30, 2023 12:29 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Confirmation Sampling

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

Good afternoon,

Chevron anticipates conducting confirmation soil sampling activities at the following sites between July 5-7, 2023:

Site Name: Culebra Bluff Section 26 Compressor Station
Incident Number: nAPP2300944487

Site Name: Culebra Bluff West 15 CTB
Incident Number: nAPP2226533583

Have a great weekend and 4th of July!

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

Outlook

RE: [EXTERNAL] Confirmation Sampling

From Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Date Fri 9/15/2023 9:10 AM
To Blake Estep <blake@etechenv.com>
Cc Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

You don't often get email from scott.rodgers@emnrd.nm.gov. Learn why this is important

The OCD has received your notification. When reporting sampling at multiple locations it is required to provide and date and time for each location. 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.

Thanks,
Scott

Scott Rodgers ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Blake Estep <blake@etechenv.com>
Sent: Friday, September 15, 2023 6:40 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Confirmation Sampling

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

Good morning,

Chevron plans to conduct confirmation sampling at the following sites next week between September 19-22, 2023:

Principle 1 & 2 Battery
Incident # nPAC0626336095

Culebra Bluff West 15 CTB
Incident # nAPP2226533583

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

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 390559
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2226533583**
Incident Name	**NAPP2226533583 CULEBRA BLUFF WEST 15 CTB @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**CULEBRA BLUFF WEST 15 CTB**
Date Release Discovered	**09/14/2022**
Surface Owner	**Private**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	440
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/10/2024
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact at Joseph Hernandez at 432-305-6413 with any questions
Please provide any information necessary for navigation to sampling site	From the intersection of NM-31 and NM-387, travel West on NM-31 for 0.26 miles, turn South and travel 0.10 miles, turn South and travel 0.14 miles, turn West and travel 0.04 miles to the provided GPS coordinates (32.309719, -104.072924).

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

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 390559
	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.	10/7/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403962
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2226533583**
Incident Name	**NAPP2226533583 CULEBRA BLUFF WEST 15 CTB @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Deferral Request Received**
Incident Facility	**[fAPP2132843666] Culebra Bluff West CTB**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CULEBRA BLUFF WEST 15 CTB
Date Release Discovered	09/14/2022
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water 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	*Not answered.*
Produced Water Released (bbls) Details	Cause: Corrosion | Tank (Any) | Produced Water | Released: 11 BBL | Recovered: 0 BBL | Lost: 11 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
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.*

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403962
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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: 11/16/2024

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403962
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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 26 and 50 (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	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 500 and 1000 (ft.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (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	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between ½ and 1 (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)	6200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	39
GRO+DRO (EPA SW-846 Method 8015M)	39
BTEX (EPA SW-846 Method 8021B or 8260B)	0
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	07/05/2023
On what date will (or did) the final sampling or liner inspection occur	10/10/2024
On what date will (or was) the remediation complete(d)	10/15/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	449
What is the estimated volume (in cubic yards) that will be remediated	8
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.	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403962
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	R360 ARTESIA LLC LANDFARM [fEEM0112340644]
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: 11/16/2024
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.	

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403962
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Residual impacts solely reside directly below and near surface utilities and equipment.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	1836
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	68
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	Culebra Bluff West CTB [fAPP2132843666]
Enter the well API (30-) on which this deferral should be granted	*Not answered.*
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
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: 11/16/2024

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QUESTIONS (continued)

Operator:	OGRID:
CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	4323
	Action Number: 403962
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**390559**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**10/10/2024**
What was the (estimated) number of samples that were to be gathered	**20**
What was the sampling surface area in square feet	**440**

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

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CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403962
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Chevron's deferral requests final remediation for (Incident Number NAPP2226533583) until final reclamation of the well pad or major construction, whichever comes first. Chevron and eTECH do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the shaded area on figure 4 that is lying beneath equipment and subsurface lines, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and placed in the incident file. The release will remain open in OCD database files and reflect an open environmental issue.	3/19/2025