Environmental & Safety Solutions, Inc.

DEFERRAL REQUEST REPORT

Benson Shugart Waterflood Unit #3

Eddy County, New Mexico

Incident Number nAPP2216550022

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 (DRR) detailing corrective actions and subsequent soil sampling events as proposed in an approved Remediation Work Plan (RWP), for an inadvertent release of crude oil and produced water at the Benson Shugart Water Flood Unit #3 (Site). Based on completed remedial actions and laboratory analytical results from recent soil sampling events, Chevron is requesting No Further Action (NFA) until the Site undergoes major deconstruction or plugging and abandonment (P&A), whichever comes first.

SITE LOCATION AND BACKGROUND

The Site is located in Unit J, Section 25, Township 18 South, Range 30 East, in Eddy County, New Mexico (32.71306 ° N, 103.9192° W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1** in **Appendix A**).

On June 9, 2022, a pinhole on the bottom of a heater caused the release of approximately 11.75 barrels (bbls) of crude oil and 23.9 bbls of produced water onto the well pad surface. Approximately 9.6 bbls of crude oil were successfully recovered. Chevron reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on June 14, 2022, and was subsequently assigned Incident Number nAPP2216550022. **Figure 2** in **Appendix A** depicts the observed release area, hereafter referred to as the Area of Concern (AOC).

On June 28, 2022, Etech conducted site assessment and delineation activities to assess the presence and/or absence of impacts at the Site. A RWP was prepared to address residual impacts based on laboratory analytical results from delineation activities that exceeded the Site Closure Criteria. The RWP was conditionally approved by the NMOCD on November 21, 2022, with the following conditions:

- Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Confirmation samples should be collected every 200 ft2. The work will need to occur in 90 days after the work plan has been approved.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As previously described in the approved RWP, the Site was characterized 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.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs), based on regional groundwater data. The closest well with data is the United States Geological Survey (USGS) well 32424113561201, located approximately 1.07 miles west of the Site. The well has a reported depth to groundwater of 204.6 feet below ground surface bgs from 1968. The location of the USGS well and other regional groundwater well locations are shown in **Figure 1A** in **Appendix A**. All well records referenced for depth to groundwater determination are included in **Appendix B**.

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

Based on the results from the desktop review for estimated depth to groundwater at the Site, surrounding wells are greater than 0.5-mile from the Site which resulted in the application of the following Closure Criteria as per the NMOCD use of eligible water wells for determination for groundwater depth requirements.

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

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

DELINEATION SOIL SAMPLING ACTIVITIES

Between May 31, 2023, and November 11, 2023, Etech personnel conducted delineation activities to assist with further characterizing residual impacted soil as proposed in the RWP. Eight delineation soil sampling locations (Auger Hole 1 through Auger Hole 8) were advanced via hand auger within and around AOC. A minimum of two soil samples were collected from each delineation soil sampling location. 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 and submitted to Permian Basin Environmental Laboratory (PBELAB) in Midland, Texas for analysis of COCs. The locations of the delineation soil samples are shown in **Figure 2** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix D**.

DELINEATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for three delineation soil samples located in the northern and western areas outside of the AOC (Auger Hole 4, Auger Hole 5 and Auger Hole 7) indicated one or more of the concentrations of the COCs exceeded the Site Closure Criteria. Laboratory analytical results for delineation soil samples collected within the AOC (Auger 2 and Auger Hole 3) indicated one or more of the concentrations of the COCs exceeded the Site Closure Criteria.

Laboratory analytical results for delineation soil samples collected within and around the the AOC (Auger Hole 1, Auger Hole 6, and Auger Hole 8) indicated concentrations of the COCs were below the Site Closure Criteria and assisted with horizontal delineation and characterization of residual impact boundaries. Laboratory analytical results are summarized in **Table 1** included in **Appendix D**.

EXCAVATION AND SOIL SAMPLING ACTIVITIES

Concurrently with delineation soil sampling activities, Etech began excavating residual impacts identified within the AOC, verified information provided on the Form C-141, and visual observations via mechanical equipment to the Maximum Extent Practical (MEP). The MEP was limited by the presence of multiple active surface production equipment and surface and/or subsurface utilities, where further excavation was unable to be advanced adjacent to nor beneath equipment and/or utilities.

Following the removal of residual soil impacts, Etech collected 5-point composite confirmation excavation soil samples at a sampling frequency of 200 square feet from the excavation floor and sidewalls. The 5-point composite samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The soil samples were then handled and analyzed for BTEX, TPH and chloride as previously described. The soil samples were transported under strict chain-of-custody procedures to Permian Basin Environmental Laboratory (PBELAB) in Midland, Texas, and Eurofins Environment Testing (Eurofins) in Midland, Texas for analysis of COCs.

On February 12, 2024, Etech resumed excavation activities to remove accessible residual soil impacts identified within the proximity of Auger Hole 5, and Auger Hole 7 via mechanical equipment. Exceedances of COCs were likely due to a potential overspray of the release. Following the removal of impacted soil, Etech collected 5-point composite floor soil samples and sidewall soil samples at a sampling frequency of 200 square feet from the excavation floor and sidewalls. The soil samples were collected, handled, and analyzed as previously described.

Approximately 100 cubic yards (CY) of impacted soil was excavated and stockpiled onsite on a plastic liner temporarily until it can be transported to a licensed and approved New Mexico landfill facility under Chevron approved waste manifests. The excavation will be backfilled with clean, locally sourced soil and the Site will be restored to “as close to its original state” as possible upon NMOCD approval of this DDR. Photographic documentation of excavation activities is included in **Appendix C**.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated that concentrations of COCs for all final confirmation excavation soil samples associated with the excavation of Auger Hole 5 and Auger Hole 7 were below the applicable Site Closure Criteria.

Laboratory analytical results for final confirmation excavation soil samples collected within the AOC indicated concentrations of COCs were below the Site Closure Criteria, except soil sample North Wall and North Side Wall #1 which is characterized by TPH concentrations ranging from 574 mg/kg to 7,960 mg/kg and represent residual impacts left in place existing from ground surface up to 2 feet bgs. Laboratory analytical results are summarized in **Table 1** included in **Appendix D**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix E**.

DEFERRAL REQUEST

Based on laboratory analytical results, Chevron believes that residual soil impacts associated with the inadvertent release have been sufficiently vertically and horizontally delineated (based on data presented in the RWP and in this DRR), excavated to the MEP, and removed from the Site. Residual soil impacts above the Closure Criteria appear to solely reside below and directly adjacent to active production equipment and utilities within the earthen berm containment, based on the delineation and final confirmation excavation soil samples in the vicinity of areas that could not be safely excavated at this time (**Figure 4** in **Appendix A**).

Areas associated with sampling locations Auger Hole 2, Auger Hole 4, North Wall and North Side Wall #1, were unable to be safely excavated to protect the structural integrity of active production equipment, which are characterized by concentrations of TPH between 146 mg/kg and 15,000 mg/kg within the top 4 feet

bgs. Vertical delineation was achieved through delineation soil sample location Auger Hole 3 and final confirmation excavation soil samples Bottom Hole 1 through Bottom Hole 3 within the top 4 feet bgs. Horizontal delineation of the AOC was identified through final excavation soil samples North Sidewall, East Sidewall, South Sidewall, West Sidewall, East Sidewall #1, East Sidewall #2, East Sidewall #3, and South Sidewall #1 and supplemented by delineation soil sampling locations Auger Hole 1, Auger Hole 6, Auger Hole 8.

Chevron believes the completed remedial actions have mitigated impacts at the Site and meets the requirements set forth in NMAC regulations in order to be protective of human health, the environment and groundwater. As such, Chevron respectfully requests approval of this DRR associated with Incident Number nAPP2216550022 until the Site undergoes major facility deconstruction or plugging and abandonment, 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. **Appendix F** provides correspondence email notification receipts associated with the subject release. Previous remediation activities and soil sample analytical results for the subject release can be referenced in the approved RWP in **Appendix G.**

Sincerely,

Etech Environmental and Safety Solutions, Inc.

Erick Herrera
Project Geologist

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 – Karst Potential
Figure 2: Delineation Soil Sample Locations
Figure 3: Excavation Soil Sample Locations
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: Email Notifications

Appendix G: Archived Reports

APPENDIX A

Figures

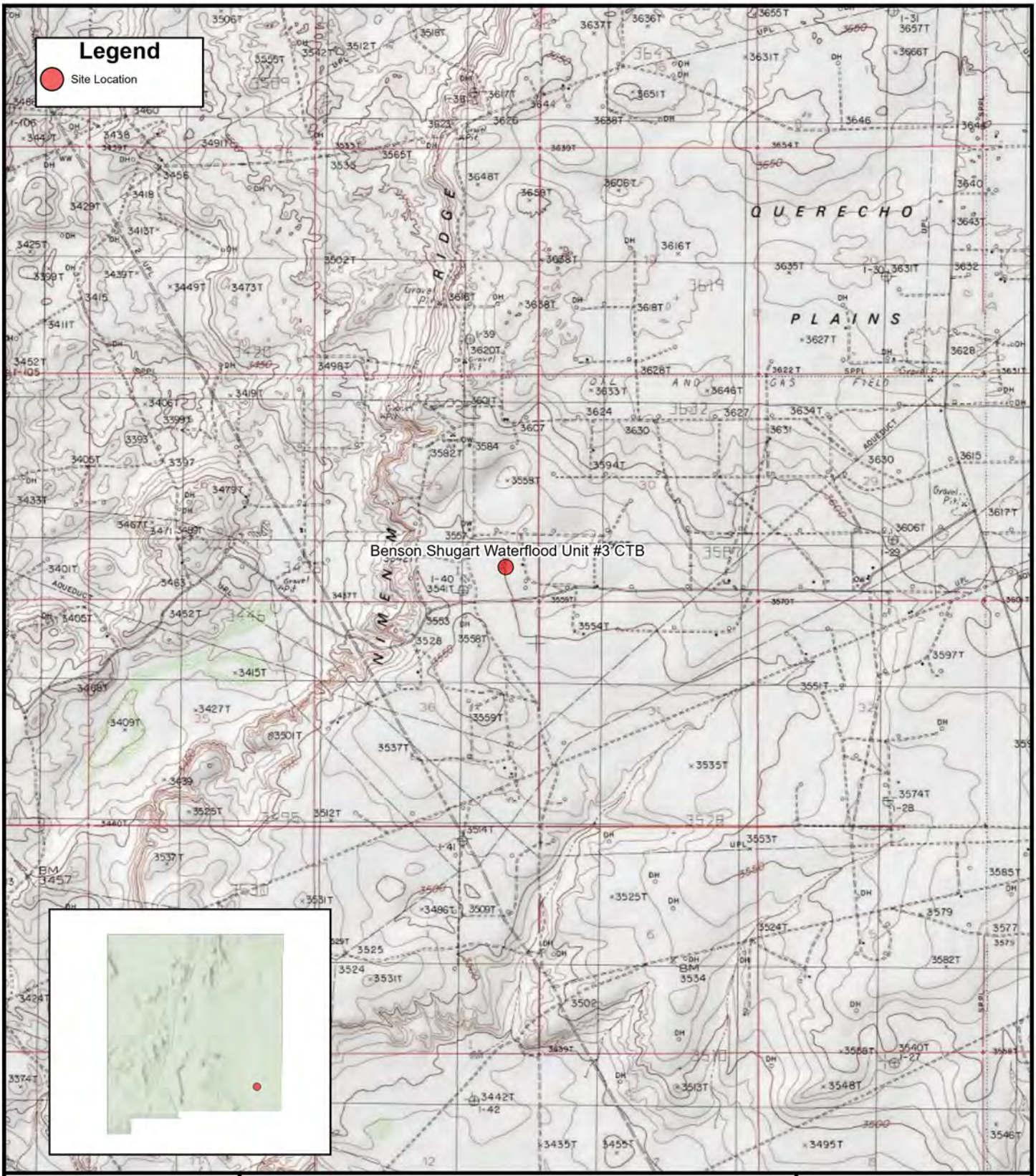


FIGURE 1

Site Location Map

Chevron USA, Inc.
Benson Shugart Waterflood Unit #3 CTB
Unit J Sec 26 T18S R30E
Eddy County, New Mexico

N

0 2,000 4,000 Feet

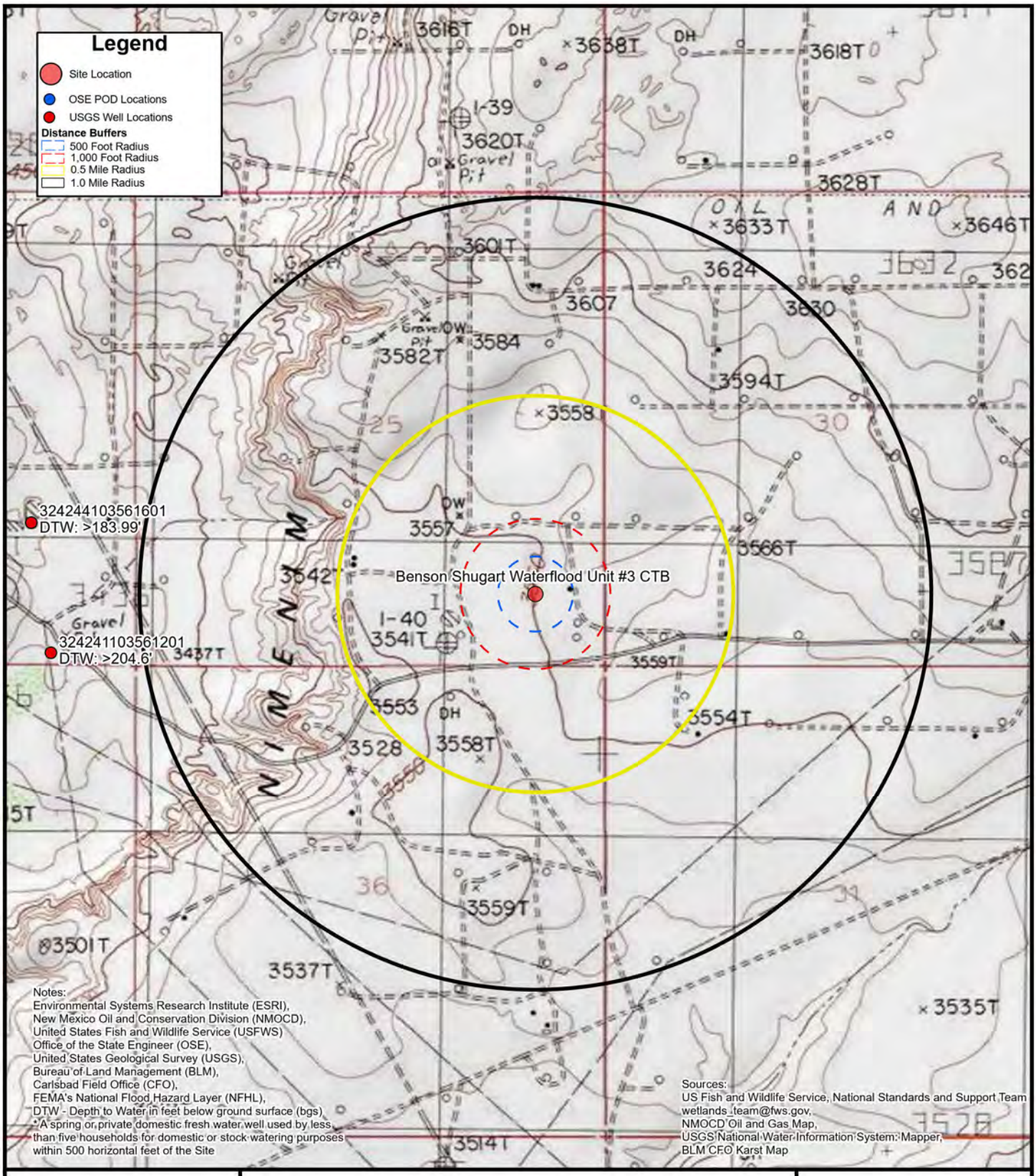
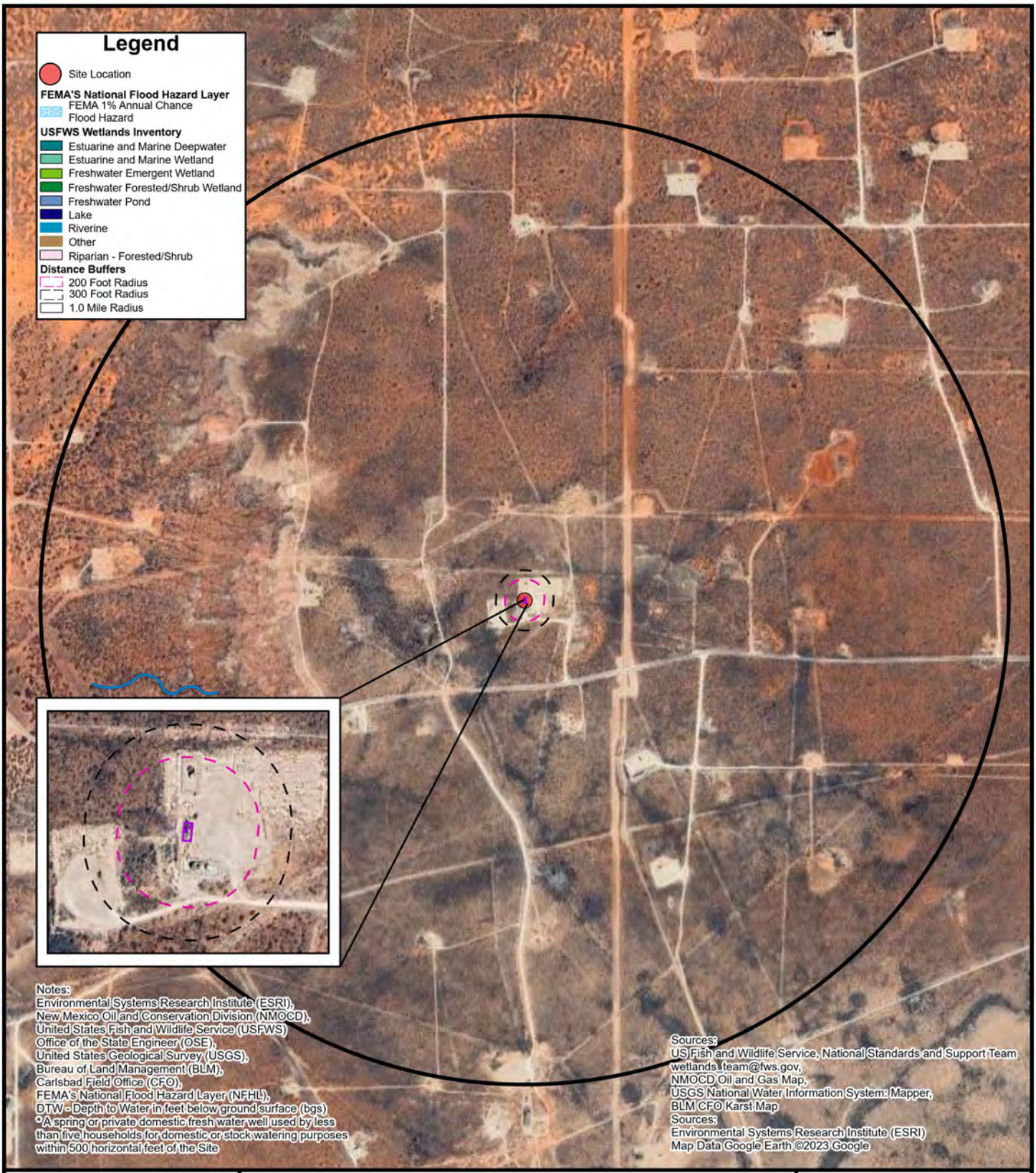


FIGURE 1A

Site Characterization Map

Ground Water

Chevron USA, Inc.
Benson Shugart Waterflood Unit #3 CTB
Unit J Sec 26 T18S R30E
Eddy County, New Mexico



eTECH

FIGURE 1B

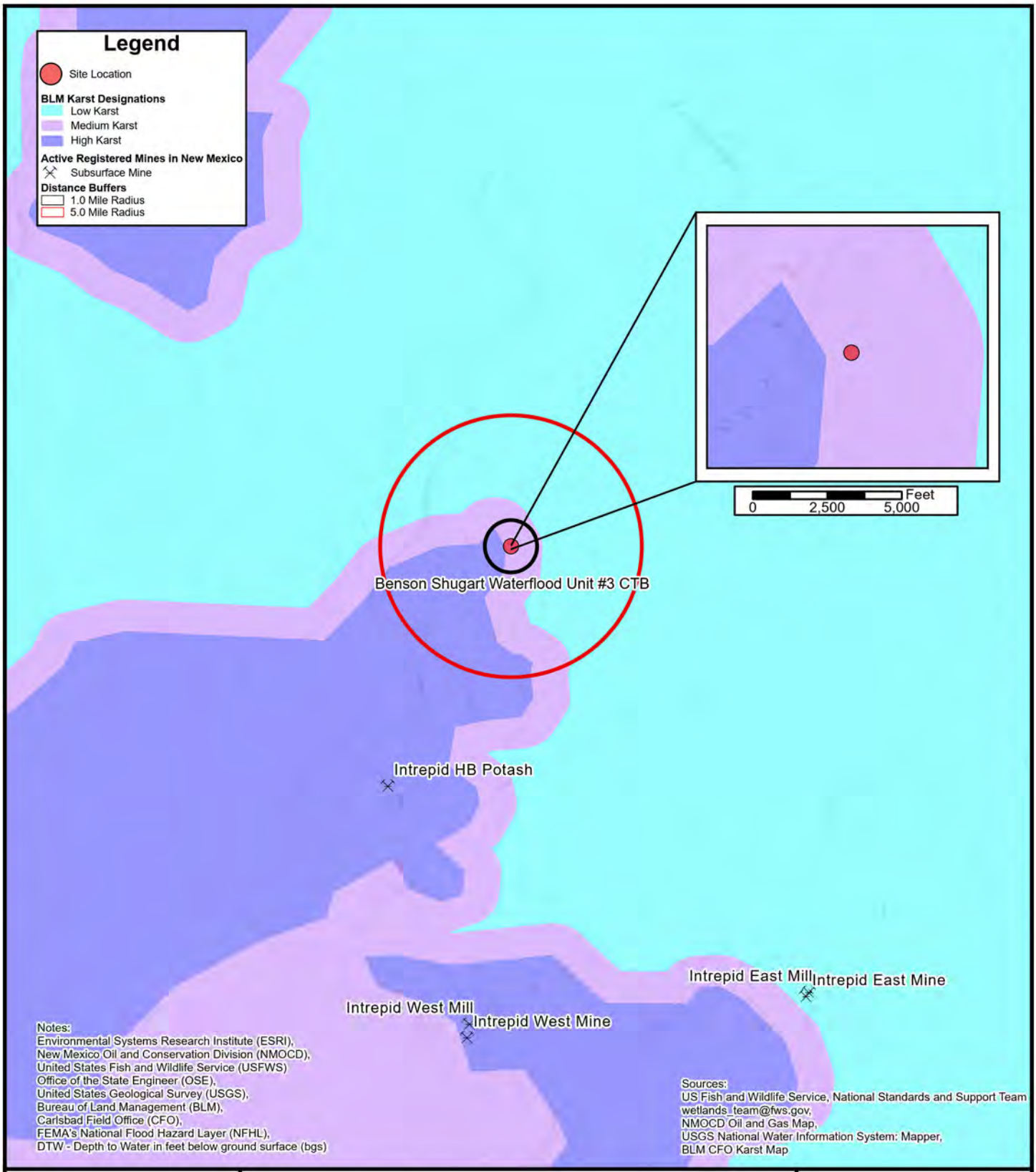
Site Characterization Map

Surficial Receptors

Chevron USA, Inc.
Benson Shugart Waterflood Unit #3
Unit J Sec 26 T18S R30E
Eddy County, New Mexico

N

0 500 1,000 Feet



eTECH

FIGURE 1C

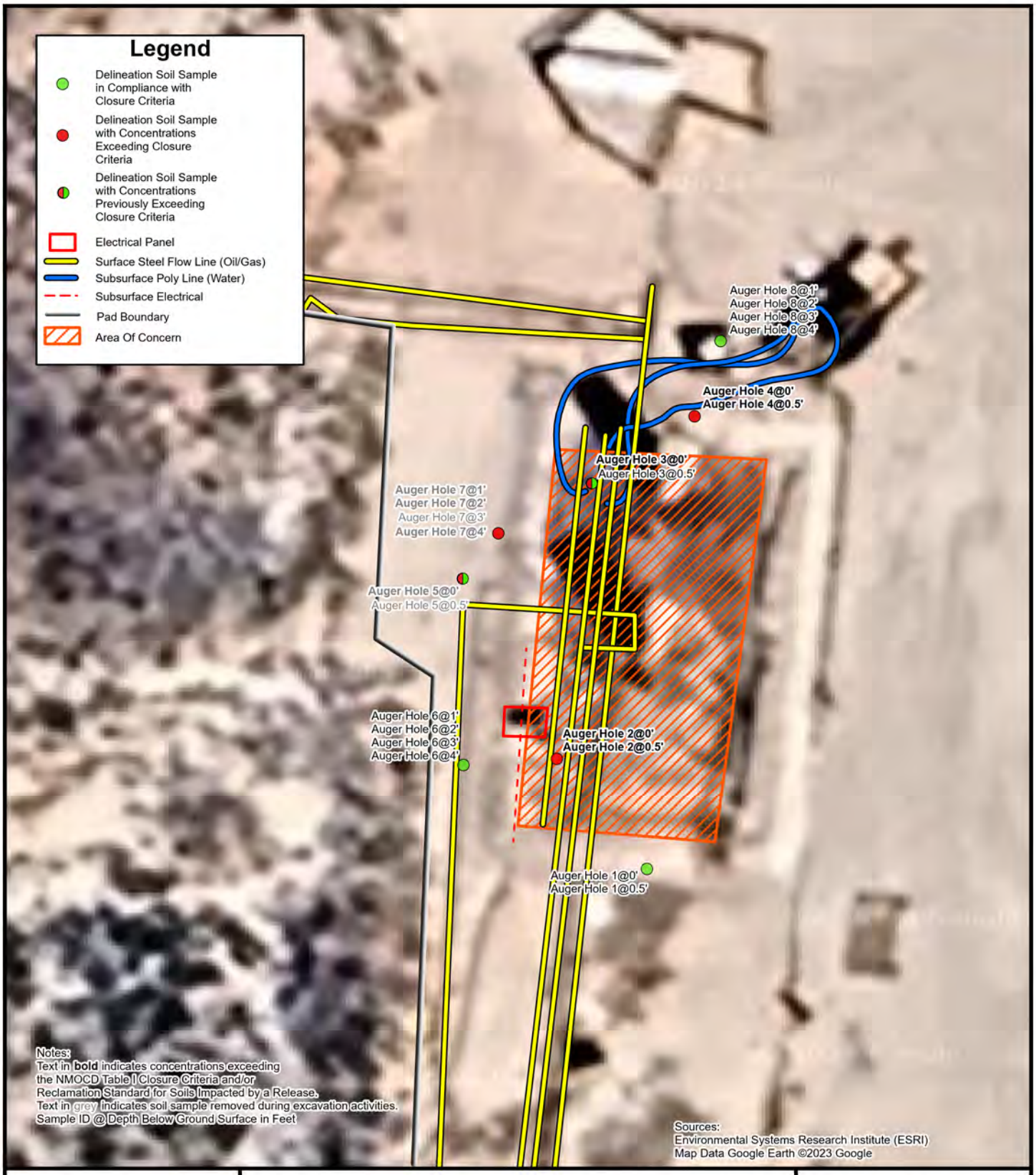
Site Characterization Map

Subsurface Receptors

Chevron USA, Inc.
Benson Shugart Waterflood Unit #3 CTB
Unit J Sec 26 T18S R30E
Eddy County, New Mexico

N

Feet
0
10,000
20,000



eTECH

FIGURE 2

Delineation Soil Sample Locations

Chevron USA, Inc.
Benson Shugart Waterflood Unit #3
Unit J Sec 226 T186S R30E
Eddy County, New Mexico

N

0 9 18 Feet

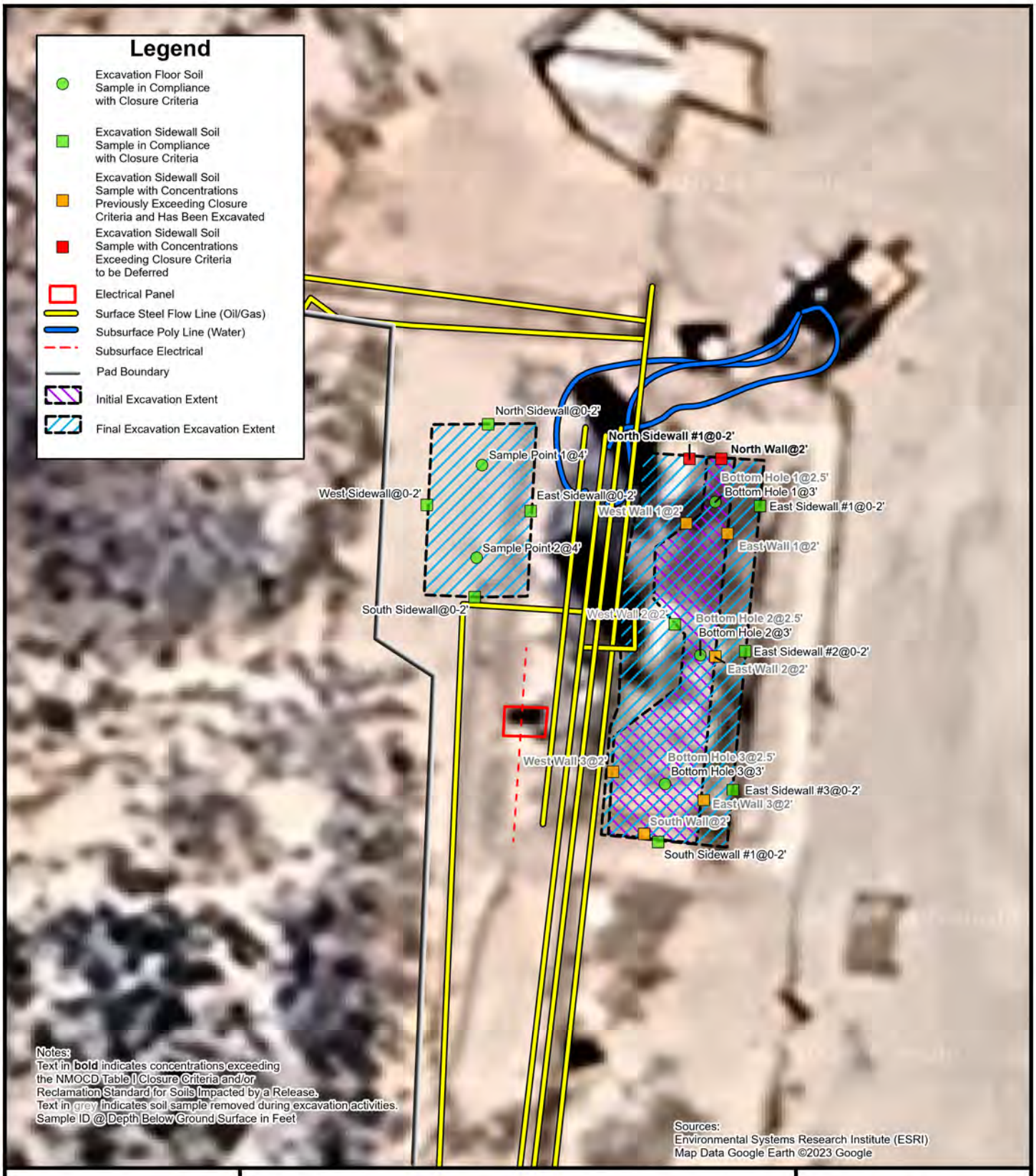


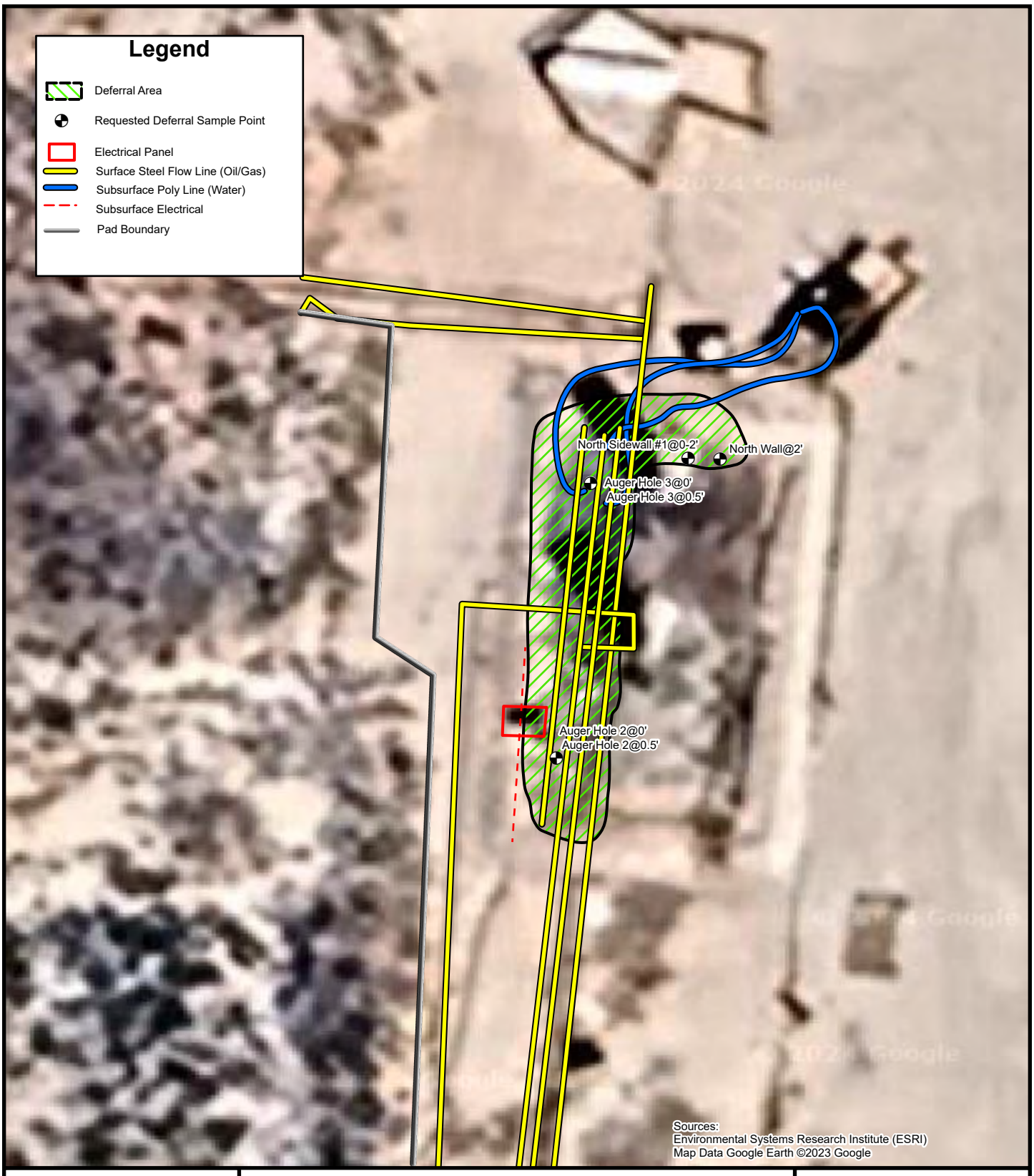
FIGURE 3

Excavation Soil Sample Locations

Chevron USA, Inc.
Benson Shugart Waterflood Unit #3
Unit J Sec 226 T186S R30E
Eddy County, New Mexico

N

0 9 18 Feet



eTECH

FIGURE 4

Deferral Area

Chevron USA, Inc.
Benson Shugart Waterflood Unit #3
Unit J Sec 226 T186S R30E
Eddy County, New Mexico

N

0 9 18 Feet

APPENDIX B

Referenced Well Records

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324241103561201

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

USGS 324241103561201 18S.30E.26.4140

Eddy County, New Mexico
Latitude 32°42'41", Longitude 103°56'12" NAD27
Land-surface elevation 3,432 feet above NAVD88
The depth of the well is 230 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1968-03-07		D	62610		3225.86	NGVD29	1	Z		
1968-03-07		D	62611		3227.40	NAVD88	1	Z		
1968-03-07		D	72019	204.60			1	Z		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined

Section	Code	Description
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions or Comments
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2024-06-10 12:15:41 EDT
0.31 0.27 nadww01

APPENDIX C

Photographic Log

PHOTOGRAPHIC LOG
Chevron USA, Inc.
Benson Shugart Waterflood Unit #3 CTB
Incident Number nAPP2216550022

Photograph 1 **Date:** 05/31/2023
Description: Southeast view of initial excavation activities.

Photograph 2 **Date:** 05/31/2023
Description: Southwest view of initial excavation activities.

Photograph 3 **Date:** 11/20/2023
Description: Northwest view of final excavation extent.

Photograph 4 **Date:** 11/20/2023
Description: Southwest view of final excavation extent.

PHOTOGRAPHIC LOG
Chevron USA, Inc.
Benson Shugart Waterflood Unit #3 CTB
Incident Number nAPP2216550022

Photograph 5 **Date:** 02/08/2024
Description: Northeastern view of areas within proximity of Auger Hole 5 and Auger Hole 7.

Photograph 6 **Date:** 02/08/2024
Description: Northwestern view of areas within proximity of Auger Hole 5 and Auger Hole 7.

Photograph 7 **Date:** 02/13/2024
Description: Southwestern view during excavation activities within proximity of Auger Hole 5 and Auger Hole 7.

Photograph 8 **Date:** 02/13/2024
Description: Southern view during excavation activities within proximity of Auger Hole 5 and Auger Hole 7.

APPENDIX D

Tables

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Chevron USA, Inc.
Benson Shugart Waterflood Unit #3 CTB
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Sample Depth (inches 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
Delineation Soil Samples - Incident Number nAPP2216550022										
Auger Hole 1	05/31/2023	0	0	<0.00101	<0.00202	<25.3	<25.3	<25.3	<25.3	13.4
Auger Hole 1	05/31/2023	0.5	6	<0.00103	<0.00206	<25.8	<25.8	<25.8	<25.8	3.67
Auger Hole 2	05/31/2023	0	0	<0.00105	<0.00211	36.8	5,360	2,390	**7,790**	38.7
Auger Hole 2	05/31/2023	0.5	6	<0.00108	0.00230	47.8	4,810	1,970	**6,830**	57.9
Auger Hole 3	05/31/2023	0	0	<0.00102	<0.00204	<25.5	82.2	63.8	**146**	496
Auger Hole 3	05/31/2023	0.5	6	<0.00104	<0.00208	<26.0	57.9	35.9	93.8	335
Auger Hole 4	05/31/2023	0	0	0.00458	0.5380	1,020	9,110	2,380	**12,500**	**790**
Auger Hole 4	05/31/2023	0.5	6	0.00262	0.2890	609	11,100	3,270	**15,000**	655
Auger Hole 5	05/31/2023	0	0	<0.00105	<0.00211	<26.3	134	84.5	**219**	16.9
Auger Hole 5	05/31/2023	0.5	6	<0.00111	<0.00222	<27.8	45.2	<27.8	45.2	1.9
Auger Hole 6	11/20/2023	1	12	<0.00109	<0.00217	<27.2	29.4	<27.2	29.4	88.0
Auger Hole 6	11/20/2023	2	24	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	189
Auger Hole 6	11/20/2023	3	36	<0.00105	<0.00211	<26.3	<26.3	<26.3	<26.3	155
Auger Hole 6	11/20/2023	4	48	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	160
Auger Hole 7	11/20/2023	1	12	<0.00106	<0.00213	<133	935	171	**1,110**	14.4
Auger Hole 7	11/20/2023	2	24	<0.00108	<0.00215	<26.9	352	76	**428**	37.9
Auger Hole 7	11/20/2023	3	36	<0.00104	<0.00208	<26.0	38.5	<26.0	38.5	53.3
Auger Hole 7	11/20/2023	4	18	<0.00104	<0.00208	<26.0	107	<26.0	**107**	43.5
Auger Hole 8	11/20/2023	1	12	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	39.2
Auger Hole 8	11/20/2023	2	24	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	42.0
Auger Hole 8	11/20/2023	3	36	<0.00110	<0.00220	<27.5	<27.5	<27.5	<27.5	38.5
Auger Hole 8	11/20/2023	4	18	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	29.6
Excavation Soil Samples - Incident Number nAPP2216550022										
Bottom Hole 1	05/31/2023	2.5	30	<0.00106	<0.00213	<26.6	400	244	**645**	199
Bottom Hole 1	11/20/2023	3	36	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	209
Bottom Hole 2	05/31/2023	2.5	30	<0.00106	<0.00213	<26.6	342	215	**557**	182
Bottom Hole 2	11/20/2023	3	36	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	210

Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Chevron USA, Inc.
Benson Shugart Waterflood Unit #3 CTB
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Sample Depth (inches 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**
Bottom Hole 3	05/31/2023	2.5	30	<0.00108	<0.00215	<26.9	367	227	**595**	171
Bottom Hole 3	11/20/2023	3	36	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	220
North Wall	05/31/2023	2	24	<0.00106	<0.00213	<26.6	350	224	**574**	176
South Wall	05/31/2023	2	24	<0.00106	<0.00213	<26.6	354	229	**583**	191
East Wall 1	05/31/2023	2	24	<0.00105	<0.00211	<26.3	306	196	**502**	179
East Wall 2	05/31/2023	2	24	<0.00105	<0.00211	<26.3	361	232	**593**	192
East Wall 3	05/31/2023	2	24	<0.00104	<0.00208	<26.0	388	250	**638**	191
West Wall 1	05/31/2023	2	24	<0.00106	<0.00213	<26.6	60.9	<26.6	60.9	**875**
West Wall 2	05/31/2023	2	24	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	561
West Wall 3	05/31/2023	2	24	<0.00109	<0.00217	<27.2	62.5	<27.2	62.5	**1,650**
North Sidewall # 1	11/20/2023	0-2	0-24	0.0176	8.96	1,340	6,020	604	**7,960**	134
South Sidewall # 1	11/20/2023	0-2	0-24	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	65.5
East Sidewall # 1	11/20/2023	0-2	0-24	<0.00106	<0.00213	<26.6	<26.6	<26.6	<26.6	62.5
East Sidewall # 2	11/20/2023	0-2	0-24	<0.00109	<0.00217	<27.2	<27.2	<27.2	<27.2	83.5
East Sidewall # 3	11/20/2023	0-2	0-24	<0.00108	<0.00215	<26.9	<26.9	<26.9	<26.9	74.4
Sample Point 1	02/13/2024	4	48	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	116
Sample Point 2	02/13/2024	4	48	<0.00202	0.0106	<50.1	<50.1	<50.1	<50.1	89.6
Northside Wall	02/13/2024	0-2	0-24	<0.00200	<0.00399	<50.4	<50.4	<50.4	<50.4	144
Eastside Wall	02/13/2024	0-2	0-24	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5	166
Southside Wall	02/13/2024	0-2	0-24	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	286
Westside Wall	02/13/2024	0-2	0-24	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	363

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 Rev. 1

Prepared for:

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

Project: BSWU #3C TB
Project Number: 16187
Location: None Given

Lab Order Number: 3F02005

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 06/06/24

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottom Hole 1 @ 30"	3F02005-01	Soil	05/31/23 13:00	06-02-2023 10:37
Bottom Hole 2 @ 30"	3F02005-02	Soil	05/31/23 13:05	06-02-2023 10:37
Bottom Hole 3 @ 30"	3F02005-03	Soil	05/31/23 13:10	06-02-2023 10:37
Northwall	3F02005-04	Soil	05/31/23 13:15	06-02-2023 10:37
Southwall	3F02005-05	Soil	05/31/23 13:13	06-02-2023 10:37
East Wall 1	3F02005-06	Soil	05/31/23 13:25	06-02-2023 10:37
East Wall 2	3F02005-07	Soil	05/31/23 13:27	06-02-2023 10:37
East Wall 3	3F02005-08	Soil	05/31/23 13:30	06-02-2023 10:37
West Wall 1	3F02005-09	Soil	05/31/23 13:17	06-02-2023 10:37
West Wall 2	3F02005-10	Soil	05/31/23 13:20	06-02-2023 10:37
West Wall 3	3F02005-11	Soil	05/31/23 13:22	06-02-2023 10:37
Auger Hole 1	3F02005-12	Soil	05/31/23 13:25	06-02-2023 10:37
Auger Hole 1	3F02005-13	Soil	05/31/23 13:28	06-02-2023 10:37
Auger Hole 2	3F02005-14	Soil	05/31/23 13:31	06-02-2023 10:37
Auger Hole 2	3F02005-15	Soil	05/31/23 13:34	06-02-2023 10:37
Auger Hole 3	3F02005-16	Soil	05/31/23 13:37	06-02-2023 10:37
Auger Hole 3	3F02005-17	Soil	05/31/23 13:40	06-02-2023 10:37
Auger Hole 4	3F02005-18	Soil	05/31/23 13:43	06-02-2023 10:37
Auger Hole 4	3F02005-19	Soil	05/31/23 13:46	06-02-2023 10:37
Auger Hole 5	3F02005-20	Soil	05/31/23 13:49	06-02-2023 10:37
Auger Hole 5	3F02005-21	Soil	05/31/23 13:52	06-02-2023 10:37

On 06/05/23 PBELAB Staff were advised to add Chloride and BTEX to this report. This revised report reflects that request.

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Bottom Hole 1 @ 30''

3F02005-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 20:06	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 20:06	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 20:06	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 20:06	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 20:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*98.0 %*		*80-120*		*P3F0609*	*06/06/23 11:53*	*06/06/23 20:06*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*100 %*		*80-120*		*P3F0609*	*06/06/23 11:53*	*06/06/23 20:06*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 18:06	TPH 8015M	
>C12-C28	**400**	26.6	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 18:06	TPH 8015M	
>C28-C35	**244**	26.6	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 18:06	TPH 8015M	
Surrogate: 1-Chlorooctane	*95.5 %*		*70-130*		*P3F0205*	*06/02/23 13:09*	*06/04/23 18:06*	*TPH 8015M*	
Surrogate: o-Terphenyl	*98.9 %*		*70-130*		*P3F0205*	*06/02/23 13:09*	*06/04/23 18:06*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**645**	26.6	mg/kg dry	1	[CALC]	06/02/23 13:09	06/04/23 18:06	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**199**	1.06	mg/kg dry	1	P3F0709	06/07/23 18:08	06/08/23 14:04	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Bottom Hole 2 @ 30"

3F02005-02 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 20:27	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 20:27	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 20:27	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 20:27	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 20:27	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*98.8 %*		*80-120*		*P3F0609*	*06/06/23 11:53*	*06/06/23 20:27*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*91.1 %*		*80-120*		*P3F0609*	*06/06/23 11:53*	*06/06/23 20:27*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 18:31	TPH 8015M	
>C12-C28	**342**	26.6	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 18:31	TPH 8015M	
>C28-C35	**215**	26.6	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 18:31	TPH 8015M	
Surrogate: 1-Chlorooctane	*93.1 %*		*70-130*		*P3F0205*	*06/02/23 13:09*	*06/04/23 18:31*	*TPH 8015M*	
Surrogate: o-Terphenyl	*96.6 %*		*70-130*		*P3F0205*	*06/02/23 13:09*	*06/04/23 18:31*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**557**	26.6	mg/kg dry	1	[CALC]	06/02/23 13:09	06/04/23 18:31	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**182**	1.06	mg/kg dry	1	P3F0709	06/07/23 18:08	06/08/23 14:18	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Bottom Hole 3 @ 30"

3F02005-03 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 20:48	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 20:48	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 20:48	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 20:48	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 20:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*91.8 %*		*80-120*		*P3F0609*	*06/06/23 11:53*	*06/06/23 20:48*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*98.5 %*		*80-120*		*P3F0609*	*06/06/23 11:53*	*06/06/23 20:48*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 18:56	TPH 8015M	
>C12-C28	**367**	26.9	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 18:56	TPH 8015M	
>C28-C35	**227**	26.9	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 18:56	TPH 8015M	
Surrogate: 1-Chlorooctane	*92.6 %*		*70-130*		*P3F0205*	*06/02/23 13:09*	*06/04/23 18:56*	*TPH 8015M*	
Surrogate: o-Terphenyl	*97.9 %*		*70-130*		*P3F0205*	*06/02/23 13:09*	*06/04/23 18:56*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**595**	26.9	mg/kg dry	1	[CALC]	06/02/23 13:09	06/04/23 18:56	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**171**	1.08	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 15:44	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Northwall

3F02005-04 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 21:08	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 21:08	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 21:08	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 21:08	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/06/23 21:08	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*95.0 %*		*80-120*		*P3F0609*	*06/06/23 11:53*	*06/06/23 21:08*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*98.3 %*		*80-120*		*P3F0609*	*06/06/23 11:53*	*06/06/23 21:08*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 19:22	TPH 8015M	
>C12-C28	**350**	26.6	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 19:22	TPH 8015M	
>C28-C35	**224**	26.6	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 19:22	TPH 8015M	
Surrogate: 1-Chlorooctane	*93.1 %*		*70-130*		*P3F0205*	*06/02/23 13:09*	*06/04/23 19:22*	*TPH 8015M*	
Surrogate: o-Terphenyl	*98.3 %*		*70-130*		*P3F0205*	*06/02/23 13:09*	*06/04/23 19:22*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**574**	26.6	mg/kg dry	1	[CALC]	06/02/23 13:09	06/04/23 19:22	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**176**	1.06	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 15:58	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Southwall

3F02005-05 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/07/23 09:08	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/07/23 09:08	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/07/23 09:08	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3F0609	06/06/23 11:53	06/07/23 09:08	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3F0609	06/06/23 11:53	06/07/23 09:08	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*84.9 %*		*80-120*		*P3F0609*	*06/06/23 11:53*	*06/07/23 09:08*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*93.6 %*		*80-120*		*P3F0609*	*06/06/23 11:53*	*06/07/23 09:08*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 19:47	TPH 8015M	
>C12-C28	**354**	26.6	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 19:47	TPH 8015M	
>C28-C35	**229**	26.6	mg/kg dry	1	P3F0205	06/02/23 13:09	06/04/23 19:47	TPH 8015M	
Surrogate: 1-Chlorooctane	*91.0 %*		*70-130*		*P3F0205*	*06/02/23 13:09*	*06/04/23 19:47*	*TPH 8015M*	
Surrogate: o-Terphenyl	*95.5 %*		*70-130*		*P3F0205*	*06/02/23 13:09*	*06/04/23 19:47*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**583**	26.6	mg/kg dry	1	[CALC]	06/02/23 13:09	06/04/23 19:47	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**191**	1.06	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 16:13	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

East Wall 1

3F02005-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3F0609	06/06/23 11:53	06/07/23 09:29	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3F0609	06/06/23 11:53	06/07/23 09:29	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3F0609	06/06/23 11:53	06/07/23 09:29	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3F0609	06/06/23 11:53	06/07/23 09:29	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3F0609	06/06/23 11:53	06/07/23 09:29	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*97.1 %*		*80-120*		*P3F0609*	*06/06/23 11:53*	*06/07/23 09:29*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*89.2 %*		*80-120*		*P3F0609*	*06/06/23 11:53*	*06/07/23 09:29*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3F0405	06/04/23 16:26	06/04/23 23:11	TPH 8015M	
>C12-C28	**306**	26.3	mg/kg dry	1	P3F0405	06/04/23 16:26	06/04/23 23:11	TPH 8015M	
>C28-C35	**196**	26.3	mg/kg dry	1	P3F0405	06/04/23 16:26	06/04/23 23:11	TPH 8015M	
Surrogate: 1-Chlorooctane	*97.3 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/04/23 23:11*	*TPH 8015M*	
Surrogate: o-Terphenyl	*103 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/04/23 23:11*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**502**	26.3	mg/kg dry	1	[CALC]	06/04/23 16:26	06/04/23 23:11	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**179**	1.05	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 16:27	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

East Wall 2

3F02005-07 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3F0609	06/06/23 11:53	06/07/23 09:50	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3F0609	06/06/23 11:53	06/07/23 09:50	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3F0609	06/06/23 11:53	06/07/23 09:50	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3F0609	06/06/23 11:53	06/07/23 09:50	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3F0609	06/06/23 11:53	06/07/23 09:50	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*87.0 %*		*80-120*		*P3F0609*	*06/06/23 11:53*	*06/07/23 09:50*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*101 %*		*80-120*		*P3F0609*	*06/06/23 11:53*	*06/07/23 09:50*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3F0405	06/04/23 16:26	06/04/23 23:37	TPH 8015M	
>C12-C28	**361**	26.3	mg/kg dry	1	P3F0405	06/04/23 16:26	06/04/23 23:37	TPH 8015M	
>C28-C35	**232**	26.3	mg/kg dry	1	P3F0405	06/04/23 16:26	06/04/23 23:37	TPH 8015M	
Surrogate: 1-Chlorooctane	*98.4 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/04/23 23:37*	*TPH 8015M*	
Surrogate: o-Terphenyl	*106 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/04/23 23:37*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**593**	26.3	mg/kg dry	1	[CALC]	06/04/23 16:26	06/04/23 23:37	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**192**	1.05	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 16:41	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

East Wall 3

3F02005-08 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 12:55	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 12:55	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 12:55	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 12:55	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 12:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*96.4 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 12:55*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*101 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 12:55*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 00:03	TPH 8015M	
>C12-C28	**388**	26.0	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 00:03	TPH 8015M	
>C28-C35	**250**	26.0	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 00:03	TPH 8015M	
Surrogate: 1-Chlorooctane	*105 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 00:03*	*TPH 8015M*	
Surrogate: o-Terphenyl	*115 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 00:03*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**638**	26.0	mg/kg dry	1	[CALC]	06/04/23 16:26	06/05/23 00:03	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**191**	1.04	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 16:56	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

West Wall 1

3F02005-09 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 13:16	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 13:16	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 13:16	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 13:16	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 13:16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*101 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 13:16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*105 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 13:16*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 00:29	TPH 8015M	
>C12-C28	**60.9**	26.6	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 00:29	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 00:29	TPH 8015M	
Surrogate: 1-Chlorooctane	*104 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 00:29*	*TPH 8015M*	
Surrogate: o-Terphenyl	*112 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 00:29*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**60.9**	26.6	mg/kg dry	1	[CALC]	06/04/23 16:26	06/05/23 00:29	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**875**	1.06	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 17:10	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

West Wall 2

3F02005-10 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 13:36	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 13:36	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 13:36	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 13:36	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 13:36	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*99.9 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 13:36*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*107 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 13:36*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 00:55	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 00:55	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 00:55	TPH 8015M	
Surrogate: 1-Chlorooctane	*89.7 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 00:55*	*TPH 8015M*	
Surrogate: o-Terphenyl	*97.4 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 00:55*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	06/04/23 16:26	06/05/23 00:55	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**561**	1.06	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 17:24	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

West Wall 3

3F02005-11 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 13:57	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 13:57	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 13:57	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 13:57	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 13:57	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*100 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 13:57*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*104 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 13:57*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 01:22	TPH 8015M	
>C12-C28	**62.5**	27.2	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 01:22	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 01:22	TPH 8015M	
Surrogate: 1-Chlorooctane	*86.5 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 01:22*	*TPH 8015M*	
Surrogate: o-Terphenyl	*94.6 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 01:22*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**62.5**	27.2	mg/kg dry	1	[CALC]	06/04/23 16:26	06/05/23 01:22	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1650**	5.43	mg/kg dry	5	P3F0710	06/07/23 18:12	06/08/23 17:53	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole 1

3F02005-12 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00101	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 14:17	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 14:17	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 14:17	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 14:17	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 14:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*98.7 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 14:17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*109 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 14:17*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.3	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 01:48	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 01:48	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 01:48	TPH 8015M	
Surrogate: 1-Chlorooctane	*96.0 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 01:48*	*TPH 8015M*	
Surrogate: o-Terphenyl	*98.4 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 01:48*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	06/04/23 16:26	06/05/23 01:48	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**13.4**	1.01	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 18:08	EPA 300.0	
% Moisture	**1.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole 1

3F02005-13 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00103	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 14:38	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 14:38	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 14:38	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 14:38	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 14:38	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*109 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 14:38*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*100 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 14:38*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.8	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 02:13	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 02:13	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 02:13	TPH 8015M	
Surrogate: 1-Chlorooctane	*94.2 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 02:13*	*TPH 8015M*	
Surrogate: o-Terphenyl	*98.3 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 02:13*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	06/04/23 16:26	06/05/23 02:13	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3.67**	1.03	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 18:50	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole 2

3F02005-14 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 14:59	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 14:59	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 14:59	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 14:59	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 14:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*105 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 14:59*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*104 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 14:59*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**36.8**	26.3	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 02:39	TPH 8015M	
>C12-C28	**5360**	26.3	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 02:39	TPH 8015M	
>C28-C35	**2390**	26.3	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 02:39	TPH 8015M	
Surrogate: 1-Chlorooctane	*89.6 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 02:39*	*TPH 8015M*	
Surrogate: o-Terphenyl	*84.7 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 02:39*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**7790**	26.3	mg/kg dry	1	[CALC]	06/04/23 16:26	06/05/23 02:39	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**38.7**	1.05	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 19:05	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole 2

3F02005-15 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 15:20	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 15:20	EPA 8021B	
Ethylbenzene	**0.00230**	0.00108	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 15:20	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 15:20	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 15:20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*101 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 15:20*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*106 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 15:20*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**47.8**	26.9	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 03:06	TPH 8015M	
>C12-C28	**4810**	26.9	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 03:06	TPH 8015M	
>C28-C35	**1970**	26.9	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 03:06	TPH 8015M	
Surrogate: 1-Chlorooctane	*90.8 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 03:06*	*TPH 8015M*	
Surrogate: o-Terphenyl	*87.4 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 03:06*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**6830**	26.9	mg/kg dry	1	[CALC]	06/04/23 16:26	06/05/23 03:06	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**57.9**	1.08	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 19:19	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole 3

3F02005-16 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00102	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 15:40	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 15:40	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 15:40	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 15:40	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 15:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*100 %*	*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 15:40*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*102 %*	*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 15:40*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	25.5	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 04:24	TPH 8015M	
>C12-C28	**82.2**	25.5	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 04:24	TPH 8015M	
>C28-C35	**63.8**	25.5	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 04:24	TPH 8015M	
Surrogate: 1-Chlorooctane		*122 %*	*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 04:24*	*TPH 8015M*	
Surrogate: o-Terphenyl		*130 %*	*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 04:24*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**146**	25.5	mg/kg dry	1	[CALC]	06/04/23 16:26	06/05/23 04:24	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**496**	1.02	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 19:33	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole 3

3F02005-17 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 16:01	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 16:01	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 16:01	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 16:01	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 16:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*101 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 16:01*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*99.3 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 16:01*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 04:51	TPH 8015M	
>C12-C28	**57.9**	26.0	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 04:51	TPH 8015M	
>C28-C35	**35.9**	26.0	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 04:51	TPH 8015M	
Surrogate: 1-Chlorooctane	*103 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 04:51*	*TPH 8015M*	
Surrogate: o-Terphenyl	*109 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 04:51*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**93.8**	26.0	mg/kg dry	1	[CALC]	06/04/23 16:26	06/05/23 04:51	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**335**	1.04	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 19:48	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole 4

3F02005-18 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.00458**	0.00108	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 17:03	EPA 8021B	
Toluene	**0.104**	0.00108	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 17:03	EPA 8021B	
Ethylbenzene	**0.174**	0.00108	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 17:03	EPA 8021B	
Xylene (p/m)	**0.156**	0.00215	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 17:03	EPA 8021B	
Xylene (o)	**0.0997**	0.00108	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 17:03	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.0 %*	*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 17:03*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*170 %*	*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 17:03*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**1020**	269	mg/kg dry	10	P3F0405	06/04/23 16:26	06/05/23 05:17	TPH 8015M	
>C12-C28	**9110**	269	mg/kg dry	10	P3F0405	06/04/23 16:26	06/05/23 05:17	TPH 8015M	
>C28-C35	**2380**	269	mg/kg dry	10	P3F0405	06/04/23 16:26	06/05/23 05:17	TPH 8015M	
Surrogate: 1-Chlorooctane		*112 %*	*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 05:17*	*TPH 8015M*	
Surrogate: o-Terphenyl		*95.6 %*	*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 05:17*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**12500**	269	mg/kg dry	10	[CALC]	06/04/23 16:26	06/05/23 05:17	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**790**	1.08	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 20:02	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole 4

3F02005-19 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.00262**	0.00105	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 17:23	EPA 8021B	
Toluene	**0.0538**	0.00105	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 17:23	EPA 8021B	
Ethylbenzene	**0.0784**	0.00105	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 17:23	EPA 8021B	
Xylene (p/m)	**0.0832**	0.00211	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 17:23	EPA 8021B	
Xylene (o)	**0.0713**	0.00105	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 17:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*98.9 %*	*80-120*			*P3F0610*	*06/06/23 12:44*	*06/07/23 17:23*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*125 %*	*80-120*			*P3F0610*	*06/06/23 12:44*	*06/07/23 17:23*	*EPA 8021B*	*S-GC*
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**609**	263	mg/kg dry	10	P3F0405	06/04/23 16:26	06/05/23 05:44	TPH 8015M	
>C12-C28	**11100**	263	mg/kg dry	10	P3F0405	06/04/23 16:26	06/05/23 05:44	TPH 8015M	
>C28-C35	**3270**	263	mg/kg dry	10	P3F0405	06/04/23 16:26	06/05/23 05:44	TPH 8015M	
Surrogate: 1-Chlorooctane	*104 %*	*70-130*			*P3F0405*	*06/04/23 16:26*	*06/05/23 05:44*	*TPH 8015M*	
Surrogate: o-Terphenyl	*91.4 %*	*70-130*			*P3F0405*	*06/04/23 16:26*	*06/05/23 05:44*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**15000**	263	mg/kg dry	10	[CALC]	06/04/23 16:26	06/05/23 05:44	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**655**	1.05	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 20:16	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole 5

3F02005-20 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 17:44	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 17:44	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 17:44	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 17:44	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 17:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*97.6 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 17:44*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*100 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 17:44*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 06:10	TPH 8015M	
>C12-C28	**134**	26.3	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 06:10	TPH 8015M	
>C28-C35	**84.5**	26.3	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 06:10	TPH 8015M	
Surrogate: 1-Chlorooctane	*107 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 06:10*	*TPH 8015M*	
Surrogate: o-Terphenyl	*110 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 06:10*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**219**	26.3	mg/kg dry	1	[CALC]	06/04/23 16:26	06/05/23 06:10	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**16.9**	1.05	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 20:30	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole 5

3F02005-21 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00111	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 18:05	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 18:05	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 18:05	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 18:05	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P3F0610	06/06/23 12:44	06/07/23 18:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*92.6 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 18:05*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*97.7 %*		*80-120*		*P3F0610*	*06/06/23 12:44*	*06/07/23 18:05*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 06:36	TPH 8015M	
>C12-C28	**45.2**	27.8	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 06:36	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P3F0405	06/04/23 16:26	06/05/23 06:36	TPH 8015M	
Surrogate: 1-Chlorooctane	*109 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 06:36*	*TPH 8015M*	
Surrogate: o-Terphenyl	*114 %*		*70-130*		*P3F0405*	*06/04/23 16:26*	*06/05/23 06:36*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**45.2**	27.8	mg/kg dry	1	[CALC]	06/04/23 16:26	06/05/23 06:36	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1.90**	1.11	mg/kg dry	1	P3F0710	06/07/23 18:12	06/08/23 20:59	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P3F0504	06/05/23 08:17	06/05/23 08:20	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
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 P3F0609 - * DEFAULT PREP *** **										
Blank (P3F0609-BLK1)				Prepared & Analyzed: 06/06/23						
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*		*95.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.116*		"	*0.120*		*96.8*	*80-120*			
LCS (P3F0609-BS1)				Prepared & Analyzed: 06/06/23						
Benzene	0.116	0.00100	mg/kg	0.100		116	80-120			
Toluene	0.111	0.00100	"	0.100		111	80-120			
Ethylbenzene	0.117	0.00100	"	0.100		117	80-120			
Xylene (p/m)	0.216	0.00200	"	0.200		108	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.127*		"	*0.120*		*106*	*80-120*			
LCS Dup (P3F0609-BSD1)				Prepared & Analyzed: 06/06/23						
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120	4.31	20	
Toluene	0.107	0.00100	"	0.100		107	80-120	3.35	20	
Ethylbenzene	0.114	0.00100	"	0.100		114	80-120	2.66	20	
Xylene (p/m)	0.211	0.00200	"	0.200		105	80-120	2.27	20	
Xylene (o)	0.0994	0.00100	"	0.100		99.4	80-120	2.41	20	
Surrogate: 4-Bromofluorobenzene	*0.129*		"	*0.120*		*107*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.120*		*98.2*	*80-120*			
Calibration Blank (P3F0609-CCB1)				Prepared & Analyzed: 06/06/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.190		"							
Xylene (p/m)	0.280		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.109*		"	*0.120*		*90.6*	*80-120*			

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
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 P3F0609 - * DEFAULT PREP *** **										
Calibration Blank (P3F0609-CCB2)				Prepared & Analyzed: 06/06/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.200		"							
Xylene (p/m)	0.200		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.114*		*"*	*0.120*		*94.7*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.108*		*"*	*0.120*		*90.1*	*80-120*			
Calibration Check (P3F0609-CCV1)				Prepared & Analyzed: 06/06/23						
Benzene	0.0992	0.00100	mg/kg	0.100		99.2	80-120			
Toluene	0.0974	0.00100	"	0.100		97.4	80-120			
Ethylbenzene	0.0985	0.00100	"	0.100		98.5	80-120			
Xylene (p/m)	0.192	0.00200	"	0.200		96.1	80-120			
Xylene (o)	0.0912	0.00100	"	0.100		91.2	80-120			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*104*	*75-125*			
Calibration Check (P3F0609-CCV2)				Prepared & Analyzed: 06/06/23						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.100	0.00100	"	0.100		100	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		97.1	80-120			
Xylene (o)	0.0972	0.00100	"	0.100		97.2	80-120			
Surrogate: 4-Bromofluorobenzene	*0.114*		*"*	*0.120*		*94.7*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*97.0*	*75-125*			
Calibration Check (P3F0609-CCV3)				Prepared: 06/06/23 Analyzed: 06/07/23						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0987	0.00100	"	0.100		98.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.125*		*"*	*0.120*		*104*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.1*	*75-125*			

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
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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 P3F0609 - * DEFAULT PREP *** **										
Matrix Spike (P3F0609-MS1)	**Source: 3F06007-01**			Prepared: 06/06/23 Analyzed: 06/07/23						
Benzene	0.0987	0.00102	mg/kg dry	0.102	ND	96.8	80-120			
Toluene	0.0848	0.00102	"	0.102	ND	83.1	80-120			
Ethylbenzene	0.0853	0.00102	"	0.102	ND	83.6	80-120			
Xylene (p/m)	0.150	0.00204	"	0.204	ND	73.5	80-120			QM-05
Xylene (o)	0.0781	0.00102	"	0.102	ND	76.5	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.123*		"	*0.122*		*101*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.121*		"	*0.122*		*99.2*	*80-120*			
Matrix Spike Dup (P3F0609-MSD1)	**Source: 3F06007-01**			Prepared: 06/06/23 Analyzed: 06/07/23						
Benzene	0.108	0.00102	mg/kg dry	0.102	ND	106	80-120	8.84	20	
Toluene	0.0983	0.00102	"	0.102	ND	96.3	80-120	14.7	20	
Ethylbenzene	0.0994	0.00102	"	0.102	ND	97.4	80-120	15.3	20	
Xylene (p/m)	0.180	0.00204	"	0.204	ND	88.1	80-120	18.1	20	
Xylene (o)	0.0871	0.00102	"	0.102	ND	85.4	80-120	10.9	20	
Surrogate: 4-Bromofluorobenzene	*0.129*		"	*0.122*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.122*		*97.9*	*80-120*			
Batch P3F0610 - * DEFAULT PREP *** **										
Blank (P3F0610-BLK1)				Prepared: 06/06/23 Analyzed: 06/07/23						
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	*0.117*		"	*0.120*		*97.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.115*		"	*0.120*		*95.5*	*80-120*			

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
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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 P3F0610 - * DEFAULT PREP *** **										
LCS (P3F0610-BS1)				Prepared: 06/06/23 Analyzed: 06/07/23						
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200		89.5	80-120			
Xylene (o)	0.0891	0.00100	"	0.100		89.1	80-120			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.120*		*"*	*0.120*		*99.8*	*80-120*			
LCS Dup (P3F0610-BSD1)				Prepared: 06/06/23 Analyzed: 06/07/23						
Benzene	0.0972	0.00100	mg/kg	0.100		97.2	80-120	13.4	20	
Toluene	0.0906	0.00100	"	0.100		90.6	80-120	11.2	20	
Ethylbenzene	0.0907	0.00100	"	0.100		90.7	80-120	11.4	20	
Xylene (p/m)	0.164	0.00200	"	0.200		82.0	80-120	8.79	20	
Xylene (o)	0.0813	0.00100	"	0.100		81.3	80-120	9.19	20	
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.5*	*80-120*			
Calibration Blank (P3F0610-CCB1)				Prepared: 06/06/23 Analyzed: 06/07/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.109*		*"*	*0.120*		*90.6*	*80-120*			
Calibration Blank (P3F0610-CCB2)				Prepared: 06/06/23 Analyzed: 06/07/23						
Benzene	0.00		ug/kg							
Toluene	0.00		"							
Ethylbenzene	0.190		"							
Xylene (p/m)	0.190		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.114*		*"*	*0.120*		*94.6*	*80-120*			

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
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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 P3F0610 - * DEFAULT PREP *** **										
Calibration Check (P3F0610-CCV1)				Prepared: 06/06/23 Analyzed: 06/07/23						
Benzene	0.114	0.00100	mg/kg	0.100		114	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0987	0.00100	"	0.100		98.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.125*		"	*0.120*		*104*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.1*	*75-125*			
Calibration Check (P3F0610-CCV2)				Prepared: 06/06/23 Analyzed: 06/07/23						
Benzene	0.107	0.00100	mg/kg	0.100		107	80-120			
Toluene	0.0988	0.00100	"	0.100		98.8	80-120			
Ethylbenzene	0.0934	0.00100	"	0.100		93.4	80-120			
Xylene (p/m)	0.172	0.00200	"	0.200		85.9	80-120			
Xylene (o)	0.0865	0.00100	"	0.100		86.5	80-120			
Surrogate: 4-Bromofluorobenzene	*0.117*		"	*0.120*		*97.5*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*99.9*	*75-125*			
Calibration Check (P3F0610-CCV3)				Prepared: 06/06/23 Analyzed: 06/07/23						
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.103	0.00100	"	0.100		103	80-120			
Ethylbenzene	0.0996	0.00100	"	0.100		99.6	80-120			
Xylene (p/m)	0.185	0.00200	"	0.200		92.5	80-120			
Xylene (o)	0.0939	0.00100	"	0.100		93.9	80-120			
Surrogate: 4-Bromofluorobenzene	*0.119*		"	*0.120*		*99.6*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.116*		"	*0.120*		*97.1*	*75-125*			
Matrix Spike (P3F0610-MS1)		**Source: 3F02005-08**		Prepared: 06/06/23 Analyzed: 06/07/23						
Benzene	0.0161	0.00104	mg/kg dry	0.104	ND	15.5	80-120			QM-05
Toluene	0.00200	0.00104	"	0.104	ND	1.92	80-120			QM-05
Ethylbenzene	0.00166	0.00104	"	0.104	ND	1.59	80-120			QM-05
Xylene (p/m)	0.0221	0.00208	"	0.208	ND	10.6	80-120			QM-05
Xylene (o)	0.0218	0.00104	"	0.104	ND	20.9	80-120			QM-05
Surrogate: 1,4-Difluorobenzene	*0.118*		"	*0.125*		*94.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.107*		"	*0.125*		*85.4*	*80-120*			

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
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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 P3F0610 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3F0610-MSD1)	**Source: 3F02005-08**			Prepared: 06/06/23 Analyzed: 06/07/23						
Benzene	0.0165	0.00104	mg/kg dry	0.104	ND	15.8	80-120	2.17	20	QM-05
Toluene	0.00297	0.00104	"	0.104	ND	2.85	80-120	39.0	20	QM-05
Ethylbenzene	0.00253	0.00104	"	0.104	ND	2.43	80-120	41.8	20	QM-05
Xylene (p/m)	0.0219	0.00208	"	0.208	ND	10.5	80-120	0.995	20	QM-05
Xylene (o)	0.0238	0.00104	"	0.104	ND	22.9	80-120	8.95	20	QM-05
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.125*		*97.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.109*		*"*	*0.125*		*87.0*	*80-120*			

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
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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 P3F0205 - TX 1005										
Blank (P3F0205-BLK1)				Prepared & Analyzed: 06/02/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*91.4*		*"*	*100*		*91.4*	*70-130*			
Surrogate: o-Terphenyl	*47.7*		*"*	*50.0*		*95.4*	*70-130*			
LCS (P3F0205-BS1)				Prepared & Analyzed: 06/02/23						
C6-C12	1170	25.0	mg/kg	1000		117	75-125			
>C12-C28	1160	25.0	"	1000		116	75-125			
Surrogate: 1-Chlorooctane	*107*		*"*	*100*		*107*	*70-130*			
Surrogate: o-Terphenyl	*49.2*		*"*	*50.0*		*98.4*	*70-130*			
LCS Dup (P3F0205-BSD1)				Prepared & Analyzed: 06/02/23						
C6-C12	1140	25.0	mg/kg	1000		114	75-125	2.59	20	
>C12-C28	1160	25.0	"	1000		116	75-125	0.0674	20	
Surrogate: 1-Chlorooctane	*108*		*"*	*100*		*108*	*70-130*			
Surrogate: o-Terphenyl	*50.2*		*"*	*50.0*		*100*	*70-130*			
Calibration Check (P3F0205-CCV1)				Prepared & Analyzed: 06/02/23						
C6-C12	462	25.0	mg/kg	500		92.3	85-115			
>C12-C28	454	25.0	"	500		90.9	85-115			
Surrogate: 1-Chlorooctane	*105*		*"*	*100*		*105*	*70-130*			
Surrogate: o-Terphenyl	*47.3*		*"*	*50.0*		*94.5*	*70-130*			
Calibration Check (P3F0205-CCV2)				Prepared & Analyzed: 06/02/23						
C6-C12	464	25.0	mg/kg	500		92.7	85-115			
>C12-C28	436	25.0	"	500		87.2	85-115			
Surrogate: 1-Chlorooctane	*105*		*"*	*100*		*105*	*70-130*			
Surrogate: o-Terphenyl	*47.7*		*"*	*50.0*		*95.4*	*70-130*			

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
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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 P3F0205 - TX 1005										
Calibration Check (P3F0205-CCV3)				Prepared: 06/02/23 Analyzed: 06/03/23						
C6-C12	471	25.0	mg/kg	500		94.1	85-115			
>C12-C28	465	25.0	"	500		93.0	85-115			
Surrogate: 1-Chlorooctane	*106*		*"*	*100*		*106*	*70-130*			
Surrogate: o-Terphenyl	*48.8*		*"*	*50.0*		*97.7*	*70-130*			
Batch P3F0405 - TX 1005										
Blank (P3F0405-BLK1)				Prepared & Analyzed: 06/04/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*100*		*"*	*100*		*100*	*70-130*			
Surrogate: o-Terphenyl	*51.3*		*"*	*50.0*		*103*	*70-130*			
LCS (P3F0405-BS1)				Prepared & Analyzed: 06/04/23						
C6-C12	1160	25.0	mg/kg	1000		116	75-125			
>C12-C28	1190	25.0	"	1000		119	75-125			
Surrogate: 1-Chlorooctane	*115*		*"*	*100*		*115*	*70-130*			
Surrogate: o-Terphenyl	*56.4*		*"*	*50.0*		*113*	*70-130*			
LCS Dup (P3F0405-BSD1)				Prepared & Analyzed: 06/04/23						
C6-C12	1210	25.0	mg/kg	1000		121	75-125	4.00	20	
>C12-C28	1140	25.0	"	1000		114	75-125	3.69	20	
Surrogate: 1-Chlorooctane	*116*		*"*	*100*		*116*	*70-130*			
Surrogate: o-Terphenyl	*62.2*		*"*	*50.0*		*124*	*70-130*			
Calibration Check (P3F0405-CCV1)				Prepared & Analyzed: 06/04/23						
C6-C12	481	25.0	mg/kg	500		96.3	85-115			
>C12-C28	456	25.0	"	500		91.2	85-115			
Surrogate: 1-Chlorooctane	*110*		*"*	*100*		*110*	*70-130*			
Surrogate: o-Terphenyl	*49.4*		*"*	*50.0*		*98.7*	*70-130*			

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
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 P3F0405 - TX 1005										
Calibration Check (P3F0405-CCV2)				Prepared: 06/04/23 Analyzed: 06/05/23						
C6-C12	490	25.0	mg/kg	500		98.0	85-115			
>C12-C28	499	25.0	"	500		99.8	85-115			
Surrogate: 1-Chlorooctane	*109*		*"*	*100*		*109*	*70-130*			
Surrogate: o-Terphenyl	*49.5*		*"*	*50.0*		*99.1*	*70-130*			
Calibration Check (P3F0405-CCV3)				Prepared: 06/04/23 Analyzed: 06/05/23						
C6-C12	511	25.0	mg/kg	500		102	85-115			
>C12-C28	494	25.0	"	500		98.8	85-115			
Surrogate: 1-Chlorooctane	*118*		*"*	*100*		*118*	*70-130*			
Surrogate: o-Terphenyl	*53.6*		*"*	*50.0*		*107*	*70-130*			
Duplicate (P3F0405-DUP1)	**Source: 3F02005-21**			Prepared: 06/04/23 Analyzed: 06/05/23						
C6-C12	15.6	27.8	mg/kg dry		11.3			32.1	20	QR-03
>C12-C28	36.3	27.8	"		45.2			21.6	20	QR-03
Surrogate: 1-Chlorooctane	*125*		*"*	*111*		*112*	*70-130*			
Surrogate: o-Terphenyl	*65.7*		*"*	*55.6*		*118*	*70-130*			

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
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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 P3F0504 - * DEFAULT PREP *** **										
Blank (P3F0504-BLK1)				Prepared & Analyzed: 06/05/23						
% Moisture	ND	0.1	%							
Blank (P3F0504-BLK2)				Prepared & Analyzed: 06/05/23						
% Moisture	1.0	0.1	%							
Duplicate (P3F0504-DUP1)		**Source: 3F02002-02**		Prepared & Analyzed: 06/05/23						
% Moisture	10.0	0.1	%		10.0			0.00	20	
Duplicate (P3F0504-DUP2)		**Source: 3F02005-04**		Prepared & Analyzed: 06/05/23						
% Moisture	5.0	0.1	%		6.0			18.2	20	
Duplicate (P3F0504-DUP3)		**Source: 3F02005-19**		Prepared & Analyzed: 06/05/23						
% Moisture	5.0	0.1	%		5.0			0.00	20	
Duplicate (P3F0504-DUP4)		**Source: 3F02006-08**		Prepared & Analyzed: 06/05/23						
% Moisture	4.0	0.1	%		3.0			28.6	20	R3
Batch P3F0709 - * DEFAULT PREP *** **										
Blank (P3F0709-BLK1)				Prepared: 06/07/23 Analyzed: 06/08/23						
Chloride	ND	1.00	mg/kg							
LCS (P3F0709-BS1)				Prepared: 06/07/23 Analyzed: 06/08/23						
Chloride	20.0		mg/kg	20.0		99.8	90-110			
LCS Dup (P3F0709-BSD1)				Prepared: 06/07/23 Analyzed: 06/08/23						
Chloride	19.8		mg/kg	20.0		98.8	90-110	1.06	10	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
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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 P3F0709 - * DEFAULT PREP *** **										
Calibration Check (P3F0709-CCV1)				Prepared: 06/07/23 Analyzed: 06/08/23						
Chloride	20.2		mg/kg	20.0		101	90-110			
Calibration Check (P3F0709-CCV2)				Prepared: 06/07/23 Analyzed: 06/08/23						
Chloride	19.7		mg/kg	20.0		98.3	90-110			
Matrix Spike (P3F0709-MS1)		**Source: 3F06010-03**		Prepared: 06/07/23 Analyzed: 06/08/23						
Chloride	145		mg/kg	100	32.6	112	80-120			
Matrix Spike (P3F0709-MS2)		**Source: 3F07004-05**		Prepared: 06/07/23 Analyzed: 06/08/23						
Chloride	160		mg/kg	100	51.9	108	80-120			
Matrix Spike Dup (P3F0709-MSD1)		**Source: 3F06010-03**		Prepared: 06/07/23 Analyzed: 06/08/23						
Chloride	144		mg/kg	100	32.6	111	80-120	0.734	20	
Matrix Spike Dup (P3F0709-MSD2)		**Source: 3F07004-05**		Prepared: 06/07/23 Analyzed: 06/08/23						
Chloride	159		mg/kg	100	51.9	107	80-120	0.543	20	
Batch P3F0710 - * DEFAULT PREP *** **										
Blank (P3F0710-BLK1)				Prepared: 06/07/23 Analyzed: 06/08/23						
Chloride	ND	1.00	mg/kg							
LCS (P3F0710-BS1)				Prepared: 06/07/23 Analyzed: 06/09/23						
Chloride	18.6		mg/kg	20.0		92.9	90-110			
LCS Dup (P3F0710-BSD1)				Prepared: 06/07/23 Analyzed: 06/09/23						
Chloride	18.7		mg/kg	20.0		93.5	90-110	0.622	10	

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
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 P3F0710 - * DEFAULT PREP *** **										
Calibration Check (P3F0710-CCV1)				Prepared: 06/07/23 Analyzed: 06/08/23						
Chloride	20.4		mg/kg	20.0		102	90-110			
Calibration Check (P3F0710-CCV2)				Prepared: 06/07/23 Analyzed: 06/09/23						
Chloride	19.2		mg/kg	20.0		95.8	90-110			
Calibration Check (P3F0710-CCV3)				Prepared: 06/07/23 Analyzed: 06/08/23						
Chloride	18.4		mg/kg	20.0		91.8	90-110			

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
NPBEL C(	Chain of Custody was not generated at PBELAB
BULK	Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 6/6/2024

Brent Barron, Laboratory Director/Technical Director

E Tech Environmental & Safety Solutions, Inc.	Project: BSWU #3C TB
13000 West County Road 100	Project Number: 16187
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 2 (Chevron)

Project Name: BSWU HBC TB

Project #: 16187 Project Loc:

Area: PO#:

☐ Bill Etech

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

Project Manager: Blake Estep

Company Name: Etech Environmental & Safety Solutions, Inc.

Company Address: P.O. Box 62228

City/State/Zip: Midland, Texas 7911

Sampler Signature: Maribella James email: Brandon@etechenv.com

(lab use only) ORDER #: 3F02005

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-Potable Specify 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		3½'	5.31-23	1300	1	☐	☐	☐	☐	☐☐	☐	☐	☐				☒	☐	☐	☐	☐	☐	☐	☐	☐☐	☐☐	☐	☐	☐	☐
2	Bottom Hole 2		3½'		1305	1	☐	☐	☐	☐	☐☐	☐	☐	☐				☒	☐	☐	☐	☐	☐	☐	☐	☐☐	☐☐	☐	☐	☐	☐
3	Bottom Hole 3		3½'		1310	1	☐	☐	☐	☐	☐☐	☐	☐	☐				☒	☐	☐	☐	☐	☐	☐	☐	☐☐	☐☐	☐	☐	☐	☐
4	Northwall		2'		1315	1	☐	☐	☐	☐	☐☐	☐	☐	☐				☒	☐	☐	☐	☐	☐	☐	☐	☐☐	☐☐	☐	☐	☐	☐
5	South Wall		2'		1313	1	☐	☐	☐	☐	☐☐	☐	☐	☐				☒	☐	☐	☐	☐	☐	☐	☐	☐☐	☐☐	☐	☐	☐	☐
6	East Wall 1		2'		1325	1	☐	☐	☐	☐	☐☐	☐	☐	☐				☒	☐	☐	☐	☐	☐	☐	☐	☐☐	☐☐	☐	☐	☐	☐
7	East Wall 2		2'		1327	1	☐	☐	☐	☐	☐☐	☐	☐	☐				☒	☐	☐	☐	☐	☐	☐	☐	☐☐	☐☐	☐	☐	☐	☐
8	East Wall 3		2'		1330	1	☐	☐	☐	☐	☐☐	☐	☐	☐				☒	☐	☐	☐	☐	☐	☐	☐	☐☐	☐☐	☐	☐	☐	☐
9	West Wall 1		2'		1317	1	☐	☐	☐	☐	☐☐	☐	☐	☐				☒	☐	☐	☐	☐	☐	☐	☐	☐☐	☐☐	☐	☐	☐	☐
10	West Wall 2		2'		1320	1	☐	☐	☐	☐	☐☐	☐	☐	☐				☒	☐	☐	☐	☐	☐	☐	☐	☐☐	☐☐	☐	☐	☐	☐
11	West Wall 3		2'		1322	1	☐	☐	☐	☐	☐☐	☐	☐	☐				☒	☐	☐	☐	☐	☐	☐	☐	☐☐	☐☐	☐	☐	☐	☐
12	Auger hole 1		0"		1325	1	☐	☐	☐	☐	☐☐	☐	☐	☐				☒	☐	☐	☐	☐	☐	☐	☐	☐☐	☐☐	☐	☐	☐	☐
13	Auger hole 1		6"		1328	1	☐	☐	☐	☐	☐☐	☐	☐	☐				☒	☐	☐	☐	☐	☐	☐	☐	☐☐	☐☐	☐	☐	☐	☐
14	Auger hole 2		0"		1331	1	☐	☐	☐	☐	☐☐	☐	☐	☐				☒	☐	☐	☐	☐	☐	☐	☐	☐☐	☐☐	☐	☐	☐	☐

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	6/1/23	1605		6/1/23	16:06
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
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: 12.1 °C CFO

PBELAB Permian Basin Environmental Lab, LP

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

2 of 2

Project Name: BSWU #3C TB

Project #: 16187 Project Loc:

Area: PO#:

☐ Bill Etech

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

Project Manager: Blake Estep

Company Name: Etech Environmental & Safety Solutions, Inc.

Company Address: P.O. Box 62228

City/State/Zip: Midland, Texas 7911

Sampler Signature: email: Brandon@etechenv.com

(lab use only)
ORDER #:

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-Potable Specify 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
15	Auger hole 2		6"	5-31-23	1334	1	☐	☐	☐	☐	☐	☐	☐	☐		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
16	Auger hole 3		0"		1337	1	☐	☐	☐	☐	☐	☐	☐	☐		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
17	Auger hole 3		6"		1340	1	☐	☐	☐	☐	☐	☐	☐	☐		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
18	Auger hole 4		0"		1343	1	☐	☐	☐	☐	☐	☐	☐	☐		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
19	Auger hole 4		6"		1346	1	☐	☐	☐	☐	☐	☐	☐	☐		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
20	Auger hole 5		0"		1349	1	☐	☐	☐	☐	☐	☐	☐	☐		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
21	Auger hole 5		6"		1352	1	☐	☐	☐	☐	☐	☐	☐	☐		☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
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							☐	☐	☐	☐	☐	☐	☐	☐		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	6/1/23	1605		6/1/23	16:06
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
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: 12.1 °C CF0

Brent Barron <brentbarron@pbelab.com>

RE: Report for BSWU #3C TB

Blake Estep <blake@etechenv.com> Mon, Jun 5, 2023 at 4:02 PM
To: Brent Barron <BrentBarron@pbelab.com>, Sara Gotcher <sara@pbelab.com>, Tressa bledsoe <tressa@pbelab.com>, Brandon Wilson <brandon@etechenv.com>, Timothy McMinn <tim@etechenv.com>

Hey Brent,

Can we go ahead and get these sampled for BTEX (8021B) & chlorides as well?

Sorry about that they should have been on the COC.

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

PBELAB

DOC #: PBEL_REV_SUBMISSION
REVISION #: PBEL_2021_1
REVISION Date: 10/29/2021
EFFECTIVE DATE: 10/29/2021

REVISION/SUBMISSION FORM

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

Client: eTech Environmental

Project: 3F02005

Revision Request:

Please revise the depths of Bottom Holes 1-3 to indicate 30".

Submitted by (Name and Date): Blake Estep 06/06/2024

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

PBELAB

Analytical Report Rev. 1

Prepared for:

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

Project: BSWU #3 CTB
Project Number: 16187
Location:

Lab Order Number: 3K21010

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 06/06/24

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Auger Hole - 6 @ 1'	3K21010-01	Soil	11/20/23 12:00	11-21-2023 11:19
Auger Hole - 6 @ 2'	3K21010-02	Soil	11/20/23 12:02	11-21-2023 11:19
Auger Hole - 6 @ 3'	3K21010-03	Soil	11/20/23 12:04	11-21-2023 11:19
Auger Hole - 6 @ 4'	3K21010-04	Soil	11/20/23 12:06	11-21-2023 11:19
Auger Hole - 7 @ 1'	3K21010-05	Soil	11/20/23 12:08	11-21-2023 11:19
Auger Hole - 7 @ 2'	3K21010-06	Soil	11/20/23 12:10	11-21-2023 11:19
Auger Hole - 7 @ 3'	3K21010-07	Soil	11/20/23 12:12	11-21-2023 11:19
Auger Hole - 7 @ 4'	3K21010-08	Soil	11/20/23 12:14	11-21-2023 11:19
Auger Hole - 8 @ 1'	3K21010-09	Soil	11/20/23 12:16	11-21-2023 11:19
Auger Hole - 8 @ 2'	3K21010-10	Soil	11/20/23 12:18	11-21-2023 11:19
Auger Hole - 8 @ 3'	3K21010-11	Soil	11/20/23 12:20	11-21-2023 11:19
Auger Hole - 8 @ 4'	3K21010-12	Soil	11/20/23 12:22	11-21-2023 11:19
Bottom Hole - 1 @ 3'	3K21010-13	Soil	11/20/23 12:24	11-21-2023 11:19
Bottom Hole - 2 @ 3'	3K21010-14	Soil	11/20/23 12:26	11-21-2023 11:19
Bottom Hole - 3 @ 3'	3K21010-15	Soil	11/20/23 12:28	11-21-2023 11:19
North Sidewall # 1 @ 0-2'	3K21010-16	Soil	11/20/23 12:30	11-21-2023 11:19
South Sidewall # 1 @ 0-2'	3K21010-17	Soil	11/20/23 12:32	11-21-2023 11:19
East Sidewall # 1 @ 0-2'	3K21010-18	Soil	11/20/23 12:34	11-21-2023 11:19
East Sidewall # 2 @ 0-2'	3K21010-19	Soil	11/20/23 12:36	11-21-2023 11:19
East Sidewall # 3 @ 0-2'	3K21010-20	Soil	11/20/23 12:38	11-21-2023 11:19

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole - 6 @ 1'

3K21010-01 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3K2109	11/21/23 14:20	11/21/23 23:06	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3K2109	11/21/23 14:20	11/21/23 23:06	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3K2109	11/21/23 14:20	11/21/23 23:06	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3K2109	11/21/23 14:20	11/21/23 23:06	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3K2109	11/21/23 14:20	11/21/23 23:06	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*112 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/21/23 23:06*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*98.2 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/21/23 23:06*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	**29.4**	27.2	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*77.2 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*89.9 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**29.4**	27.2	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**88.0**	1.09	mg/kg dry	1	P3K2211	11/24/23 14:10	11/29/23 21:14	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole - 6 @ 2'

3K21010-02 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3K2109	11/21/23 14:20	11/21/23 23:31	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3K2109	11/21/23 14:20	11/21/23 23:31	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3K2109	11/21/23 14:20	11/21/23 23:31	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3K2109	11/21/23 14:20	11/21/23 23:31	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3K2109	11/21/23 14:20	11/21/23 23:31	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*98.5 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/21/23 23:31*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*113 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/21/23 23:31*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*89.2 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*104 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**189**	1.06	mg/kg dry	1	P3K2211	11/24/23 14:10	11/29/23 21:29	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole - 6 @ 3'

3K21010-03 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00105	mg/kg dry	1	P3K2109	11/21/23 14:20	11/21/23 23:55	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P3K2109	11/21/23 14:20	11/21/23 23:55	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P3K2109	11/21/23 14:20	11/21/23 23:55	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P3K2109	11/21/23 14:20	11/21/23 23:55	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P3K2109	11/21/23 14:20	11/21/23 23:55	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*98.6 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/21/23 23:55*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*112 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/21/23 23:55*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.3	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*91.1 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*105 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**155**	1.05	mg/kg dry	1	P3K2211	11/24/23 14:10	11/29/23 21:43	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole - 6 @ 4'

3K21010-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 00:19	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 00:19	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 00:19	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 00:19	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 00:19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*98.5 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/22/23 00:19*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*112 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/22/23 00:19*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*88.2 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*103 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**160**	1.08	mg/kg dry	1	P3K2211	11/24/23 14:10	11/29/23 21:57	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole - 7 @ 1'

3K21010-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 00:44	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 00:44	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 00:44	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 00:44	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 00:44	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*101 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/22/23 00:44*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*109 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/22/23 00:44*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	133	mg/kg dry	5	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	**935**	133	mg/kg dry	5	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	**171**	133	mg/kg dry	5	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*78.1 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*94.6 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**1110**	133	mg/kg dry	5	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**14.4**	1.06	mg/kg dry	1	P3K2211	11/24/23 14:10	11/29/23 22:12	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole - 7 @ 2'

3K21010-06 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 01:08	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 01:08	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 01:08	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 01:08	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 01:08	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*112 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/22/23 01:08*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*99.3 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/22/23 01:08*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	**352**	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	**75.6**	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*75.9 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*95.5 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**428**	26.9	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**37.9**	1.08	mg/kg dry	1	P3K2211	11/24/23 14:10	11/29/23 22:26	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole - 7 @ 3'

3K21010-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 01:32	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 01:32	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 01:32	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 01:32	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 01:32	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*98.9 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/22/23 01:32*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*114 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/22/23 01:32*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	**38.5**	26.0	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*77.2 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*98.0 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**38.5**	26.0	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**53.3**	1.04	mg/kg dry	1	P3K2211	11/24/23 14:10	11/29/23 22:40	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole - 7 @ 4'

3K21010-08 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00104	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 01:57	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 01:57	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 01:57	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 01:57	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 01:57	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*113 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/22/23 01:57*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*98.8 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/22/23 01:57*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.0	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	**107**	26.0	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*78.6 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*98.5 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**107**	26.0	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**43.5**	1.04	mg/kg dry	1	P3K2211	11/24/23 14:10	11/29/23 23:23	EPA 300.0	
% Moisture	**4.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole - 8 @ 1'

3K21010-09 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 02:21	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 02:21	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 02:21	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 02:21	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 02:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*98.8 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/22/23 02:21*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*114 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/22/23 02:21*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*62.3 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	*S-GC*
Surrogate: o-Terphenyl	*75.5 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**39.2**	1.08	mg/kg dry	1	P3K2211	11/24/23 14:10	11/29/23 23:37	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole - 8 @ 2'

3K21010-10 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 02:45	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 02:45	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 02:45	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 02:45	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3K2109	11/21/23 14:20	11/22/23 02:45	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*98.6 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/22/23 02:45*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*113 %*		*80-120*		*P3K2109*	*11/21/23 14:20*	*11/22/23 02:45*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*86.0 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*106 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**42.0**	1.09	mg/kg dry	1	P3K2211	11/24/23 14:10	11/29/23 23:51	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole - 8 @ 3'

3K21010-11 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00110	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 16:00	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 16:00	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 16:00	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 16:00	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 16:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*112 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 16:00*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*96.7 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 16:00*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.5	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*85.0 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*103 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**38.5**	1.10	mg/kg dry	1	P3K2211	11/24/23 14:10	11/30/23 00:06	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Auger Hole - 8 @ 4'

3K21010-12 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 16:25	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 16:25	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 16:25	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 16:25	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 16:25	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*97.2 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 16:25*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*109 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 16:25*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*89.5 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*106 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**29.6**	1.09	mg/kg dry	1	P3K2211	11/24/23 14:10	11/30/23 00:49	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Bottom Hole - 1 @ 3'

3K21010-13 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 17:38	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 17:38	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 17:38	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 17:38	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 17:38	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*111 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 17:38*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*97.7 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 17:38*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*89.6 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*108 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**209**	1.08	mg/kg dry	1	P3K2211	11/24/23 14:10	11/30/23 01:03	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Bottom Hole - 2 @ 3'

3K21010-14 (Soil)

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 18:02	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 18:02	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 18:02	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 18:02	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 18:02	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*97.6 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 18:02*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*112 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 18:02*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*91.6 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*108 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**210**	1.08	mg/kg dry	1	P3K2211	11/24/23 14:10	11/30/23 01:17	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Bottom Hole - 3 @ 3'

3K21010-15 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 18:26	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 18:26	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 18:26	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 18:26	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 18:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*97.1 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 18:26*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*112 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 18:26*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*95.6 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*111 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**220**	1.08	mg/kg dry	1	P3K2211	11/24/23 14:10	11/30/23 01:32	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

North Sidewall # 1 @ 0-2'

3K21010-16 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	**0.0176**	0.00106	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 18:50	EPA 8021B	
Toluene	**0.951**	0.0213	mg/kg dry	20	P3K2209	11/22/23 09:21	11/27/23 11:40	EPA 8021B	
Ethylbenzene	**2.50**	0.0213	mg/kg dry	20	P3K2209	11/22/23 09:21	11/27/23 11:40	EPA 8021B	
Xylene (p/m)	**4.67**	0.0426	mg/kg dry	20	P3K2209	11/22/23 09:21	11/27/23 11:40	EPA 8021B	
Xylene (o)	**0.823**	0.0213	mg/kg dry	20	P3K2209	11/22/23 09:21	11/27/23 11:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*151 %*	*80-120*			*P3K2209*	*11/22/23 09:21*	*11/27/23 11:40*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*96.9 %*	*80-120*			*P3K2209*	*11/22/23 09:21*	*11/27/23 11:40*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**1340**	266	mg/kg dry	10	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	**6020**	266	mg/kg dry	10	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	**604**	266	mg/kg dry	10	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*73.4 %*	*70-130*			*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*118 %*	*70-130*			*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**7960**	266	mg/kg dry	10	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**134**	1.06	mg/kg dry	1	P3K2708	11/27/23 16:17	11/30/23 22:07	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

South Sidewall # 1 @ 0-2'

3K21010-17 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 19:15	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 19:15	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 19:15	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 19:15	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 19:15	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*95.6 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 19:15*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*108 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 19:15*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*93.2 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*109 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**65.5**	1.08	mg/kg dry	1	P3K2708	11/27/23 16:17	11/30/23 22:49	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

East Sidewall # 1 @ 0-2'

3K21010-18 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00106	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 19:39	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 19:39	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 19:39	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 19:39	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 19:39	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*96.0 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 19:39*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*111 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 19:39*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.6	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*72.7 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*85.7 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**62.5**	1.06	mg/kg dry	1	P3K2708	11/27/23 16:17	11/30/23 23:04	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

East Sidewall # 2 @ 0-2'

3K21010-19 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00109	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 20:03	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 20:03	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 20:03	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 20:03	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 20:03	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*95.6 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 20:03*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*110 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 20:03*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.2	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*91.8 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*106 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**83.5**	1.09	mg/kg dry	1	P3K2708	11/27/23 16:17	11/30/23 23:18	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

East Sidewall # 3 @ 0-2'

3K21010-20 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Benzene	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 20:28	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 20:28	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 20:28	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 20:28	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P3K2209	11/22/23 09:21	11/22/23 20:28	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	*96.3 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 20:28*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene	*111 %*		*80-120*		*P3K2209*	*11/22/23 09:21*	*11/22/23 20:28*	*EPA 8021B*	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P3K2110	11/21/23 15:35	11/22/23 17:00	TPH 8015M	
Surrogate: 1-Chlorooctane	*85.2 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Surrogate: o-Terphenyl	*99.7 %*		*70-130*		*P3K2110*	*11/21/23 15:35*	*11/22/23 17:00*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	11/21/23 15:35	11/22/23 17:00	calc	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**74.4**	1.08	mg/kg dry	1	P3K2708	11/27/23 16:17	11/30/23 23:32	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P3K2210	11/22/23 10:02	11/22/23 10:08	ASTM D2216	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
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 P3K2109 - * DEFAULT PREP *** **										
Blank (P3K2109-BLK1)				Prepared & Analyzed: 11/21/23						
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	*0.117*		*"*	*0.120*		*97.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.133*		*"*	*0.120*		*111*	*80-120*			
LCS (P3K2109-BS1)				Prepared & Analyzed: 11/21/23						
Benzene	0.102	0.00100	mg/kg	0.100		102	80-120			
Toluene	0.0930	0.00100	"	0.100		93.0	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.5	80-120			
Xylene (o)	0.0895	0.00100	"	0.100		89.5	80-120			
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.3*	*80-120*			
LCS Dup (P3K2109-BSD1)				Prepared & Analyzed: 11/21/23						
Benzene	0.113	0.00100	mg/kg	0.100		113	80-120	9.67	20	
Toluene	0.104	0.00100	"	0.100		104	80-120	10.9	20	
Ethylbenzene	0.113	0.00100	"	0.100		113	80-120	11.3	20	
Xylene (p/m)	0.220	0.00200	"	0.200		110	80-120	9.85	20	
Xylene (o)	0.100	0.00100	"	0.100		100	80-120	11.0	20	
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*106*	*80-120*			
Calibration Blank (P3K2109-CCB1)				Prepared & Analyzed: 11/21/23						
Benzene	0.160		ug/kg							
Toluene	0.380		"							
Ethylbenzene	0.200		"							
Xylene (p/m)	0.390		"							
Xylene (o)	0.160		"							
Surrogate: 4-Bromofluorobenzene	*0.131*		*"*	*0.120*		*109*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*96.1*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
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 P3K2109 - * DEFAULT PREP *** **										
Calibration Blank (P3K2109-CCB2)				Prepared & Analyzed: 11/21/23						
Benzene	0.130		ug/kg							
Toluene	0.300		"							
Ethylbenzene	0.190		"							
Xylene (p/m)	0.280		"							
Xylene (o)	0.130		"							
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.134*		*"*	*0.120*		*112*	*80-120*			
Calibration Check (P3K2109-CCV1)				Prepared & Analyzed: 11/21/23						
Benzene	0.106	0.00100	mg/kg	0.100		106	80-120			
Toluene	0.0971	0.00100	"	0.100		97.1	80-120			
Ethylbenzene	0.100	0.00100	"	0.100		100	80-120			
Xylene (p/m)	0.207	0.00200	"	0.200		104	80-120			
Xylene (o)	0.0946	0.00100	"	0.100		94.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.127*		*"*	*0.120*		*106*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.4*	*75-125*			
Calibration Check (P3K2109-CCV2)				Prepared & Analyzed: 11/21/23						
Benzene	0.118	0.00100	mg/kg	0.100		118	80-120			
Toluene	0.108	0.00100	"	0.100		108	80-120			
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120			
Xylene (p/m)	0.224	0.00200	"	0.200		112	80-120			
Xylene (o)	0.105	0.00100	"	0.100		105	80-120			
Surrogate: 4-Bromofluorobenzene	*0.133*		*"*	*0.120*		*110*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*100*	*75-125*			
Calibration Check (P3K2109-CCV3)				Prepared: 11/21/23 Analyzed: 11/22/23						
Benzene	0.106	0.00100	mg/kg	0.100		106	80-120			
Toluene	0.0930	0.00100	"	0.100		93.0	80-120			
Ethylbenzene	0.0945	0.00100	"	0.100		94.5	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.6	80-120			
Xylene (o)	0.0914	0.00100	"	0.100		91.4	80-120			
Surrogate: 1,4-Difluorobenzene	*0.121*		*"*	*0.120*		*101*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.130*		*"*	*0.120*		*108*	*75-125*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
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 P3K2109 - * DEFAULT PREP *** **										
Matrix Spike (P3K2109-MS1)	**Source: 3K21007-01**			Prepared: 11/21/23 Analyzed: 11/22/23						
Benzene	0.0842	0.00105	mg/kg dry	0.105	ND	80.0	80-120			
Toluene	0.0508	0.00105	"	0.105	ND	48.3	80-120			QM-05
Ethylbenzene	0.0367	0.00105	"	0.105	ND	34.9	80-120			QM-05
Xylene (p/m)	0.0739	0.00211	"	0.211	ND	35.1	80-120			QM-05
Xylene (o)	0.0329	0.00105	"	0.105	ND	31.3	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.134*		"	*0.126*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.128*		"	*0.126*		*101*	*80-120*			
Matrix Spike Dup (P3K2109-MSD1)	**Source: 3K21007-01**			Prepared: 11/21/23 Analyzed: 11/22/23						
Benzene	0.0727	0.00105	mg/kg dry	0.105	ND	69.1	80-120	14.7	20	QM-05
Toluene	0.0409	0.00105	"	0.105	ND	38.8	80-120	21.7	20	QM-05
Ethylbenzene	0.0296	0.00105	"	0.105	ND	28.2	80-120	21.3	20	QM-05
Xylene (p/m)	0.0589	0.00211	"	0.211	ND	28.0	80-120	22.5	20	QM-05
Xylene (o)	0.0276	0.00105	"	0.105	ND	26.2	80-120	17.6	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.136*		"	*0.126*		*108*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.127*		"	*0.126*		*101*	*80-120*			
Batch P3K2209 - * DEFAULT PREP *** **										
Blank (P3K2209-BLK1)				Prepared & Analyzed: 11/22/23						
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: 4-Bromofluorobenzene	*0.136*		"	*0.120*		*113*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.6*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
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 P3K2209 - * DEFAULT PREP *** **										
LCS (P3K2209-BS1)				Prepared & Analyzed: 11/22/23						
Benzene	0.101	0.00100	mg/kg	0.100		101	80-120			
Toluene	0.0933	0.00100	"	0.100		93.3	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.200	0.00200	"	0.200		100	80-120			
Xylene (o)	0.0896	0.00100	"	0.100		89.6	80-120			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.128*		*"*	*0.120*		*107*	*80-120*			
LCS Dup (P3K2209-BSD1)				Prepared & Analyzed: 11/22/23						
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120	9.21	20	
Toluene	0.104	0.00100	"	0.100		104	80-120	11.1	20	
Ethylbenzene	0.111	0.00100	"	0.100		111	80-120	10.0	20	
Xylene (p/m)	0.220	0.00200	"	0.200		110	80-120	9.33	20	
Xylene (o)	0.0996	0.00100	"	0.100		99.6	80-120	10.5	20	
Surrogate: 4-Bromofluorobenzene	*0.128*		*"*	*0.120*		*107*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.3*	*80-120*			
Calibration Blank (P3K2209-CCB1)				Prepared & Analyzed: 11/22/23						
Benzene	0.140		ug/kg							
Toluene	0.270		"							
Ethylbenzene	0.170		"							
Xylene (p/m)	0.300		"							
Xylene (o)	0.150		"							
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*0.132*		*"*	*0.120*		*110*	*80-120*			
Calibration Blank (P3K2209-CCB2)				Prepared & Analyzed: 11/22/23						
Benzene	0.160		ug/kg							
Toluene	0.270		"							
Ethylbenzene	0.170		"							
Xylene (p/m)	0.320		"							
Xylene (o)	0.130		"							
Surrogate: 4-Bromofluorobenzene	*0.132*		*"*	*0.120*		*110*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.9*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
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 P3K2209 - * DEFAULT PREP *** **										
Calibration Check (P3K2209-CCV1)				Prepared & Analyzed: 11/22/23						
Benzene	0.111	0.00100	mg/kg	0.100		111	80-120			
Toluene	0.102	0.00100	"	0.100		102	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.217	0.00200	"	0.200		109	80-120			
Xylene (o)	0.0982	0.00100	"	0.100		98.2	80-120			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.128*		*"*	*0.120*		*107*	*75-125*			
Calibration Check (P3K2209-CCV2)				Prepared & Analyzed: 11/22/23						
Benzene	0.116	0.00100	mg/kg	0.100		116	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120			
Xylene (o)	0.102	0.00100	"	0.100		102	80-120			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*75-125*			
Calibration Check (P3K2209-CCV3)				Prepared & Analyzed: 11/22/23						
Benzene	0.118	0.00100	mg/kg	0.100		118	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)	0.222	0.00200	"	0.200		111	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	*0.129*		*"*	*0.120*		*107*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*98.8*	*75-125*			
Matrix Spike (P3K2209-MS1)		**Source: 3K21014-01**		Prepared & Analyzed: 11/22/23						
Benzene	0.0760	0.00120	mg/kg dry	0.120	0.00218	61.3	80-120			QM-05
Toluene	0.0629	0.00120	"	0.120	0.0108	43.2	80-120			QM-05
Ethylbenzene	0.0620	0.00120	"	0.120	0.00680	45.8	80-120			QM-05
Xylene (p/m)	0.133	0.00241	"	0.241	0.0267	44.2	80-120			QM-05
Xylene (o)	0.0550	0.00120	"	0.120	0.00898	38.2	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.156*		*"*	*0.145*		*108*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.141*		*"*	*0.145*		*97.8*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
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 P3K2209 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3K2209-MSD1)	**Source: 3K21014-01**			Prepared & Analyzed: 11/22/23						
Benzene	0.0768	0.00120	mg/kg dry	0.120	0.00218	62.0	80-120	1.12	20	QM-05
Toluene	0.0617	0.00120	"	0.120	0.0108	42.3	80-120	2.22	20	QM-05
Ethylbenzene	0.0624	0.00120	"	0.120	0.00680	46.2	80-120	0.674	20	QM-05
Xylene (p/m)	0.134	0.00241	"	0.241	0.0267	44.4	80-120	0.576	20	QM-05
Xylene (o)	0.0554	0.00120	"	0.120	0.00898	38.5	80-120	0.730	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.154*		*"*	*0.145*		*107*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.141*		*"*	*0.145*		*97.4*	*80-120*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
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 P3K2110 - TX 1005										
Blank (P3K2110-BLK1)				Prepared: 11/21/23 Analyzed: 11/22/23						
C6-C12	ND	25.0	mg/kg							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*92.3*		*"*	*100*		*92.3*	*70-130*			
Surrogate: o-Terphenyl	*56.0*		*"*	*50.0*		*112*	*70-130*			
LCS (P3K2110-BS1)				Prepared: 11/21/23 Analyzed: 11/22/23						
C6-C12	863	25.0	mg/kg	1000		86.3	75-125			
>C12-C28	826	25.0	"	1000		82.6	75-125			
Surrogate: 1-Chlorooctane	*91.5*		*"*	*100*		*91.5*	*70-130*			
Surrogate: o-Terphenyl	*54.9*		*"*	*50.0*		*110*	*70-130*			
LCS Dup (P3K2110-BSD1)				Prepared: 11/21/23 Analyzed: 11/22/23						
C6-C12	820	25.0	mg/kg	1000		82.0	75-125	5.14	20	
>C12-C28	809	25.0	"	1000		80.9	75-125	2.08	20	
Surrogate: 1-Chlorooctane	*90.9*		*"*	*100*		*90.9*	*70-130*			
Surrogate: o-Terphenyl	*52.4*		*"*	*50.0*		*105*	*70-130*			
Calibration Check (P3K2110-CCV1)				Prepared: 11/21/23 Analyzed: 11/22/23						
C6-C12	444	25.0	mg/kg	500		88.7	85-115			
>C12-C28	493	25.0	"	500		98.5	85-115			
Surrogate: 1-Chlorooctane	*97.5*		*"*	*100*		*97.5*	*70-130*			
Surrogate: o-Terphenyl	*59.3*		*"*	*50.0*		*119*	*70-130*			
Calibration Check (P3K2110-CCV2)				Prepared: 11/21/23 Analyzed: 11/22/23						
C6-C12	515	25.0	mg/kg	500		103	85-115			
>C12-C28	459	25.0	"	500		91.7	85-115			
Surrogate: 1-Chlorooctane	*97.9*		*"*	*100*		*97.9*	*70-130*			
Surrogate: o-Terphenyl	*56.2*		*"*	*50.0*		*112*	*70-130*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
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 P3K2110 - TX 1005										
Calibration Check (P3K2110-CCV3)				Prepared: 11/21/23 Analyzed: 11/22/23						
C6-C12	427	25.0	mg/kg	500		85.4	85-115			
>C12-C28	472	25.0	"	500		94.4	85-115			
Surrogate: 1-Chlorooctane	*101*		*"*	*100*		*101*	*70-130*			
Surrogate: o-Terphenyl	*56.2*		*"*	*50.0*		*112*	*70-130*			
Duplicate (P3K2110-DUP1)		**Source: 3K21010-20**		Prepared: 11/21/23 Analyzed: 11/22/23						
C6-C12	26.4	26.9	mg/kg dry		15.9			49.8	20	
>C12-C28	ND	26.9	"		ND				20	
Surrogate: 1-Chlorooctane	*92.1*		*"*	*108*		*85.7*	*70-130*			
Surrogate: o-Terphenyl	*54.5*		*"*	*53.8*		*101*	*70-130*			

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
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 P3K2210 - * DEFAULT PREP *** **										
Blank (P3K2210-BLK1)				Prepared & Analyzed: 11/22/23						
% Moisture	ND	0.1	%							
Blank (P3K2210-BLK2)				Prepared & Analyzed: 11/22/23						
% Moisture	ND	0.1	%							
Blank (P3K2210-BLK3)				Prepared & Analyzed: 11/22/23						
% Moisture	ND	0.1	%							
Duplicate (P3K2210-DUP1)		**Source: 3K21010-05**		Prepared & Analyzed: 11/22/23						
% Moisture	7.0	0.1	%		6.0			15.4	20	
Duplicate (P3K2210-DUP2)		**Source: 3K21010-15**		Prepared & Analyzed: 11/22/23						
% Moisture	7.0	0.1	%		7.0			0.00	20	
Duplicate (P3K2210-DUP3)		**Source: 3K21011-10**		Prepared & Analyzed: 11/22/23						
% Moisture	14.0	0.1	%		15.0			6.90	20	
Duplicate (P3K2210-DUP4)		**Source: 3K21011-20**		Prepared & Analyzed: 11/22/23						
% Moisture	9.0	0.1	%		9.0			0.00	20	
Duplicate (P3K2210-DUP5)		**Source: 3K21015-03**		Prepared & Analyzed: 11/22/23						
% Moisture	3.0	0.1	%		4.0			28.6	20	R3
Batch P3K2211 - * DEFAULT PREP *** **										
Blank (P3K2211-BLK1)				Prepared: 11/22/23 Analyzed: 11/29/23						
Chloride	ND	1.00	mg/kg							

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
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 P3K2211 - * DEFAULT PREP *** **										
LCS (P3K2211-BS1)				Prepared: 11/22/23 Analyzed: 11/29/23						
Chloride	19.2		mg/kg	18.0		107	90-110			
LCS Dup (P3K2211-BSD1)				Prepared: 11/22/23 Analyzed: 11/29/23						
Chloride	17.4		mg/kg	18.0		96.9	90-110	9.82	10	
Calibration Check (P3K2211-CCV1)				Prepared: 11/22/23 Analyzed: 11/29/23						
Chloride	18.4		mg/kg	20.0		92.2	90-110			
Calibration Check (P3K2211-CCV2)				Prepared: 11/22/23 Analyzed: 11/29/23						
Chloride	18.8		mg/kg	20.0		93.9	90-110			
Matrix Spike (P3K2211-MS1)		**Source: 3K21008-01**		Prepared: 11/22/23 Analyzed: 11/29/23						
Chloride	118		mg/kg	100	11.1	107	80-120			
Matrix Spike (P3K2211-MS2)		**Source: 3K21010-11**		Prepared: 11/22/23 Analyzed: 11/30/23						
Chloride	98.5		mg/kg	100	0.701	97.8	80-120			
Matrix Spike Dup (P3K2211-MSD1)		**Source: 3K21008-01**		Prepared: 11/22/23 Analyzed: 11/29/23						
Chloride	116		mg/kg	100	11.1	105	80-120	1.56	20	
Matrix Spike Dup (P3K2211-MSD2)		**Source: 3K21010-11**		Prepared: 11/22/23 Analyzed: 11/30/23						
Chloride	94.3		mg/kg	100	0.701	93.6	80-120	4.38	20	
Batch P3K2708 - * DEFAULT PREP *** **										
Blank (P3K2708-BLK1)				Prepared: 11/27/23 Analyzed: 11/30/23						
Chloride	ND	1.00	mg/kg							

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
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 P3K2708 - * DEFAULT PREP *** **										
LCS (P3K2708-BS1)				Prepared: 11/27/23 Analyzed: 11/30/23						
Chloride	17.0		mg/kg	16.0		106	90-110			
LCS Dup (P3K2708-BSD1)				Prepared: 11/27/23 Analyzed: 11/30/23						
Chloride	15.7		mg/kg	16.0		98.1	90-110	8.07	10	
Calibration Check (P3K2708-CCV1)				Prepared: 11/27/23 Analyzed: 11/30/23						
Chloride	17.2		mg/kg	16.0		108	90-110			
Calibration Check (P3K2708-CCV2)				Prepared: 11/27/23 Analyzed: 12/01/23						
Chloride	18.5		mg/kg	20.0		92.3	90-110			
Matrix Spike (P3K2708-MS1)		**Source: 3K21010-16**		Prepared: 11/27/23 Analyzed: 11/30/23						
Chloride	97.8		mg/kg	100	2.52	95.2	80-120			
Matrix Spike (P3K2708-MS2)		**Source: 3K21011-06**		Prepared: 11/27/23 Analyzed: 12/01/23						
Chloride	98.8		mg/kg	100	0.252	98.6	80-120			
Matrix Spike Dup (P3K2708-MSD1)		**Source: 3K21010-16**		Prepared: 11/27/23 Analyzed: 11/30/23						
Chloride	94.1		mg/kg	100	2.52	91.5	80-120	3.87	20	
Matrix Spike Dup (P3K2708-MSD2)		**Source: 3K21011-06**		Prepared: 11/27/23 Analyzed: 12/01/23						
Chloride	96.9		mg/kg	100	0.252	96.6	80-120	1.99	20	

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
NPBEL C(	Chain of Custody was not generated at PBELAB
BULK	Samples received in Bulk soil containers may be biased low in the nC6-C12 TPH Range
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 6/6/2024

Brent Barron, Laboratory Director/Technical Director

E Tech Environmental & Safety Solutions, Inc. [1]	Project: BSWU #3 CTB
13000 West County Road 100	Project Number: 16187
Odessa TX, 79765	Project Manager: Blake Estep

PBELAB Permian Basin Environmental Lab, LP

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

Chevron

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

1 of 2

Project Name: BSWU #3 CTB

Project #: 16187 Project Loc:

Area: PO#: 16187

☑Bill Etech

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

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

(lab use only)
ORDER #: 3K21010

LAB # (lab use only)	FIELD CODE	Start Depth	End Depth	Date Sampled	Time Sampled	Preservation & # of Containers: No. 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-Potable Specify Other	Analyze For: TCLP: 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	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	RUSH TAT(Pre-Schedule) 24, 48, 72 hrs	STANDARD TAT
1	Auger Hole - 1	-	1'	11-20-23	1200	1	X								S	X							X			X		X
2	Auger Hole - 1	-	2'		1202	1																						
3	Auger Hole - 1	-	3'		1204	1																						
4	Auger Hole - 1	-	4'		1206	1																						
5	Auger Hole - 2	-	1'		1208	1																						
6	Auger Hole - 2	-	2'		1210	1																						
7	Auger Hole - 2	-	3'		1212	1																						
8	Auger Hole - 2	-	4'		1214	1																						
9	Auger Hole - 3	-	1'		1216	1																						
10	Auger Hole - 3	-	2'		1218	1																						
11	Auger Hole - 3	-	3'		1220	1																						
12	Auger Hole - 3	-	4'		1222	1																						
13	Bottom Hole - 1	-	3'		1224	1																						
14	Bottom Hole - 2	-	3'		1226	1																						

Special Instructions:

Relinquished by:	Date	Time	Received by:	Date	Time
	11-21-23	11:19			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
				11/21/23	11:19

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: 5.7 °C NCF

PBELAB Permian Basin Environmental Lab, LP

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

Chevron

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 2 of 2

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: BSWU #3 CTB
Project #: 16187 Project Loc:
Area: PO#: 16187
☑ Bill Etech

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

(lab use only)
ORDER #: 3K21010

LAB # (lab use only)	FIELD CODE	Start Depth	End Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 / 8015M / 1005 / 1006	TOTAL: 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
15	Bottom Hole - 3	1	3'	11-2023	1228	1	☑	☐	☐	☐	☐	☐	☐	☐	S			☑	☐	☐	☐	☐	☐	☐	☑	☐	☐	☑	☐	☐	☑
16	North Sidewall #1	0	2'		1230	1	☐	☐	☐	☐	☐	☐	☐	☐				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
17	South Sidewall #1	0	2'		1232	1	☐	☐	☐	☐	☐	☐	☐	☐				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
18	East Side wall #1	0	2'		1234	1	☐	☐	☐	☐	☐	☐	☐	☐				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
19	East Side wall #2	0	2'		1236	1	☐	☐	☐	☐	☐	☐	☐	☐				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
20	East Side wall #3	0	2'		1238	1	☐	☐	☐	☐	☐	☐	☐	☐				☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
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Special Instructions:

	Date	Time		Date	Time
Relinquished by:	11-21-23	11:19	Received by:		
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: Trisha Bledsoe	11/21/23	11:19

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: 5.7 °C NCF

PBELAB

DOC #: PBEL_REV_SUBMISSION
REVISION #: PBEL_2021_1
REVISION Date: 10/29/2021
EFFECTIVE DATE: 10/29/2021

REVISION/SUBMISSION FORM

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

Client: eTech Environmental

Project: 3K21010

Revision Request:

Please rename Auger Hole 1 through Auger Hole 3 to

Auger Hole 6 through Auger Hole 8

Submitted by (Name and Date): Blake Estep 6/6/24

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/26/2024 3:52:22 PM

JOB DESCRIPTION

BSWU #3 CTB
16187

JOB NUMBER

880-39519-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

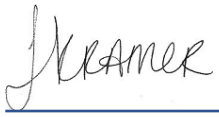
Eurofins Midland

Job Notes

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

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

Authorization



Generated
2/26/2024 3:52:22 PM

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

Table of Contents

Definitions/Glossary

Client: Etech Environmental & Safety Solutions Job ID: 880-39519-1
Project/Site: BSWU #3 CTB SDG: 16187

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Etech Environmental & Safety Solutions Job ID: 880-39519-1
Project: BSWU #3 CTB

Job ID: 880-39519-1 Eurofins Midland

Job Narrative
880-39519-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/16/2024 1:29 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: Sample Point 1 (880-39519-1), Sample Point 2 (880-39519-2), Northside wall (880-39519-3), EastSide Wall (880-39519-4), Southside Wall (880-39519-5) and Westside Wall (880-39519-6).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-73889 and analytical batch 880-73976 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: EastSide Wall (880-39519-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: Sample Point 2 (880-39519-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-73889 and analytical batch 880-73976 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-73976 recovered above the upper control limit for Ethylbenzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-73976/64).

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-73439 and analytical batch 880-73600 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: Sample Point 1 (880-39519-1), Sample Point 2 (880-39519-2), Northside wall (880-39519-3), EastSide Wall (880-39519-4), Southside Wall (880-39519-5), Westside Wall (880-39519-6) and (880-39505-A-2-B MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-73439 and analytical batch 880-73600 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-73439 and analytical batch 880-73600 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within

Case Narrative

Client: Etech Environmental & Safety Solutions Job ID: 880-39519-1
Project: BSWU #3 CTB

Job ID: 880-39519-1 (Continued) Eurofins Midland

acceptance limits.

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

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

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-39519-1
SDG: 16187

Client Sample ID: Sample Point 1

Lab Sample ID: 880-39519-1
Matrix: Solid
Date Collected: 02/13/24 10:15
Date Received: 02/16/24 13:29
Sample Depth: 48"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/22/24 16:19	02/25/24 15:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/22/24 16:19	02/25/24 15:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/22/24 16:19	02/25/24 15:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/22/24 16:19	02/25/24 15:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/22/24 16:19	02/25/24 15:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/22/24 16:19	02/25/24 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*02/22/24 16:19*	*02/25/24 15:45*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*02/22/24 16:19*	*02/25/24 15:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/25/24 15:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/21/24 05:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/19/24 09:07	02/21/24 05:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/19/24 09:07	02/21/24 05:39	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/19/24 09:07	02/21/24 05:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*23*	*S1-*	*70 - 130*	*02/19/24 09:07*	*02/21/24 05:39*	*1*
o-Terphenyl	*16*	*S1-*	*70 - 130*	*02/19/24 09:07*	*02/21/24 05:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**		5.05		mg/Kg			02/20/24 16:20	1

Client Sample ID: Sample Point 2

Lab Sample ID: 880-39519-2
Matrix: Solid
Date Collected: 02/13/24 10:18
Date Received: 02/16/24 13:29
Sample Depth: 48"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/22/24 16:19	02/25/24 16:06	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/22/24 16:19	02/25/24 16:06	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/22/24 16:19	02/25/24 16:06	1
m-Xylene & p-Xylene	**0.00512**		0.00404		mg/Kg		02/22/24 16:19	02/25/24 16:06	1
o-Xylene	**0.00550**		0.00202		mg/Kg		02/22/24 16:19	02/25/24 16:06	1
Xylenes, Total	**0.0106**		0.00404		mg/Kg		02/22/24 16:19	02/25/24 16:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*372*	*S1+*	*70 - 130*	*02/22/24 16:19*	*02/25/24 16:06*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-39519-1
SDG: 16187

Client Sample ID: Sample Point 2

Lab Sample ID: 880-39519-2
Matrix: Solid
Date Collected: 02/13/24 10:18
Date Received: 02/16/24 13:29
Sample Depth: 48"

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*02/22/24 16:19*	*02/25/24 16:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0106**		0.00404		mg/Kg			02/25/24 16:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/21/24 06:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		02/19/24 09:07	02/21/24 06:02	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		02/19/24 09:07	02/21/24 06:02	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		02/19/24 09:07	02/21/24 06:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*19*	*S1-*	*70 - 130*	*02/19/24 09:07*	*02/21/24 06:02*	*1*
o-Terphenyl	*10*	*S1-*	*70 - 130*	*02/19/24 09:07*	*02/21/24 06:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**89.6**		5.05		mg/Kg			02/20/24 16:41	1

Client Sample ID: Northside wall

Lab Sample ID: 880-39519-3
Matrix: Solid
Date Collected: 02/13/24 10:20
Date Received: 02/16/24 13:29
Sample Depth: 0-24"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:19	02/25/24 16:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:19	02/25/24 16:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:19	02/25/24 16:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/22/24 16:19	02/25/24 16:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:19	02/25/24 16:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/22/24 16:19	02/25/24 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*02/22/24 16:19*	*02/25/24 16:26*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*02/22/24 16:19*	*02/25/24 16:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/25/24 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			02/21/24 04:08	1

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Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-39519-1
SDG: 16187

Client Sample ID: Northside wall

Lab Sample ID: 880-39519-3
Matrix: Solid
Date Collected: 02/13/24 10:20
Date Received: 02/16/24 13:29
Sample Depth: 0-24"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		02/19/24 09:07	02/21/24 04:08	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		02/19/24 09:07	02/21/24 04:08	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		02/19/24 09:07	02/21/24 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*31*	*S1-*	*70 - 130*	*02/19/24 09:07*	*02/21/24 04:08*	*1*
o-Terphenyl	*23*	*S1-*	*70 - 130*	*02/19/24 09:07*	*02/21/24 04:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**144**		4.97		mg/Kg			02/20/24 16:48	1

Client Sample ID: EastSide Wall

Lab Sample ID: 880-39519-4
Matrix: Solid
Date Collected: 02/13/24 10:22
Date Received: 02/16/24 13:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/22/24 16:19	02/25/24 16:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/22/24 16:19	02/25/24 16:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/22/24 16:19	02/25/24 16:47	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/22/24 16:19	02/25/24 16:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/22/24 16:19	02/25/24 16:47	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/22/24 16:19	02/25/24 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*02/22/24 16:19*	*02/25/24 16:47*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*02/22/24 16:19*	*02/25/24 16:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/25/24 16:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/21/24 04:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		02/19/24 09:07	02/21/24 04:31	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		02/19/24 09:07	02/21/24 04:31	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		02/19/24 09:07	02/21/24 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*38*	*S1-*	*70 - 130*	*02/19/24 09:07*	*02/21/24 04:31*	*1*
o-Terphenyl	*30*	*S1-*	*70 - 130*	*02/19/24 09:07*	*02/21/24 04:31*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-39519-1
SDG: 16187

Client Sample ID: EastSide Wall

Lab Sample ID: 880-39519-4
Matrix: Solid
Date Collected: 02/13/24 10:22
Date Received: 02/16/24 13:29

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		4.96		mg/Kg			02/20/24 16:54	1

Client Sample ID: Southside Wall

Lab Sample ID: 880-39519-5
Matrix: Solid
Date Collected: 02/13/24 10:24
Date Received: 02/16/24 13:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:19	02/25/24 18:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:19	02/25/24 18:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:19	02/25/24 18:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/22/24 16:19	02/25/24 18:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:19	02/25/24 18:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/22/24 16:19	02/25/24 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*02/22/24 16:19*	*02/25/24 18:37*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*02/22/24 16:19*	*02/25/24 18:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/25/24 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/21/24 04:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/19/24 09:07	02/21/24 04:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/19/24 09:07	02/21/24 04:54	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/19/24 09:07	02/21/24 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*21*	*S1-*	*70 - 130*	*02/19/24 09:07*	*02/21/24 04:54*	*1*
o-Terphenyl	*11*	*S1-*	*70 - 130*	*02/19/24 09:07*	*02/21/24 04:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	286		4.99		mg/Kg			02/20/24 17:01	1

Client Sample ID: Westside Wall

Lab Sample ID: 880-39519-6
Matrix: Solid
Date Collected: 02/13/24 10:26
Date Received: 02/16/24 13:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/22/24 16:19	02/25/24 18:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/22/24 16:19	02/25/24 18:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/22/24 16:19	02/25/24 18:58	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-39519-1
SDG: 16187

Client Sample ID: Westside Wall

Date Collected: 02/13/24 10:26
Date Received: 02/16/24 13:29

Lab Sample ID: 880-39519-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/22/24 16:19	02/25/24 18:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/22/24 16:19	02/25/24 18:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/22/24 16:19	02/25/24 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*02/22/24 16:19*	*02/25/24 18:58*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*02/22/24 16:19*	*02/25/24 18:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/25/24 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/21/24 05:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/19/24 09:07	02/21/24 05:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/19/24 09:07	02/21/24 05:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/24 09:07	02/21/24 05:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*02/19/24 09:07*	*02/21/24 05:17*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*02/19/24 09:07*	*02/21/24 05:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**363**		5.04		mg/Kg			02/20/24 17:21	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-39519-1
SDG: 16187

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-39506-A-2-E MS	Matrix Spike	115	97
880-39506-A-2-F MSD	Matrix Spike Duplicate	106	96
880-39519-1	Sample Point 1	117	103
880-39519-2	Sample Point 2	372 S1+	104
880-39519-3	Northside wall	124	104
880-39519-4	EastSide Wall	135 S1+	100
880-39519-5	Southside Wall	100	101
880-39519-6	Westside Wall	122	108
LCS 880-73889/1-A	Lab Control Sample	117	96
LCSD 880-73889/2-A	Lab Control Sample Dup	106	97
MB 880-73889/5-A	Method Blank	131 S1+	111
MB 880-73892/5-A	Method Blank	129	111

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-39505-A-2-B MS	Matrix Spike	67 S1-	66 S1-
880-39505-A-2-C MSD	Matrix Spike Duplicate	79	75
880-39519-1	Sample Point 1	23 S1-	16 S1-
880-39519-2	Sample Point 2	19 S1-	10 S1-
880-39519-3	Northside wall	31 S1-	23 S1-
880-39519-4	EastSide Wall	38 S1-	30 S1-
880-39519-5	Southside Wall	21 S1-	11 S1-
880-39519-6	Westside Wall	66 S1-	65 S1-
LCS 880-73439/2-A	Lab Control Sample	97	99
LCSD 880-73439/3-A	Lab Control Sample Dup	86	86
MB 880-73439/1-A	Method Blank	133 S1+	152 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-39519-1
SDG: 16187

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73889/5-A
Matrix: Solid
Analysis Batch: 73976

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73889

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:19	02/25/24 13:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:19	02/25/24 13:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:19	02/25/24 13:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/22/24 16:19	02/25/24 13:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:19	02/25/24 13:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/22/24 16:19	02/25/24 13:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*02/22/24 16:19*	*02/25/24 13:13*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*02/22/24 16:19*	*02/25/24 13:13*	*1*

Lab Sample ID: LCS 880-73889/1-A
Matrix: Solid
Analysis Batch: 73976

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73889

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1113		mg/Kg		111	70 - 130		
Toluene			0.100	0.09857		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.1221		mg/Kg		122	70 - 130		
m-Xylene & p-Xylene			0.200	0.2081		mg/Kg		104	70 - 130		
o-Xylene			0.100	0.09864		mg/Kg		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-73889/2-A
Matrix: Solid
Analysis Batch: 73976

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73889

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1135		mg/Kg		113	70 - 130	2	35
Toluene			0.100	0.1007		mg/Kg		101	70 - 130	2	35
Ethylbenzene			0.100	0.1179		mg/Kg		118	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2002		mg/Kg		100	70 - 130	4	35
o-Xylene			0.100	0.09816		mg/Kg		98	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-39506-A-2-E MS
Matrix: Solid
Analysis Batch: 73976

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 73889

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.101	0.09522		mg/Kg		94	70 - 130		
Toluene	<0.00199	U	0.101	0.08802		mg/Kg		87	70 - 130		

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-39519-1
SDG: 16187

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

Lab Sample ID: 880-39506-A-2-E MS | **Client Sample ID: Matrix Spike**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 73976 | **Prep Batch: 73889**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.101	0.08701		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1508		mg/Kg		75	70 - 130
o-Xylene	<0.00199	U F1	0.101	0.07694		mg/Kg		76	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-39506-A-2-F MSD | **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 73976 | **Prep Batch: 73889**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.07196		mg/Kg		72	70 - 130	28	35
Toluene	<0.00199	U	0.100	0.06983		mg/Kg		70	70 - 130	23	35
Ethylbenzene	<0.00199	U	0.100	0.07369		mg/Kg		73	70 - 130	17	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1384	F1	mg/Kg		69	70 - 130	9	35
o-Xylene	<0.00199	U F1	0.100	0.06431	F1	mg/Kg		64	70 - 130	18	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 880-73892/5-A | **Client Sample ID: Method Blank**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 73976 | **Prep Batch: 73892**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:35	02/25/24 01:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:35	02/25/24 01:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:35	02/25/24 01:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/22/24 16:35	02/25/24 01:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/24 16:35	02/25/24 01:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/22/24 16:35	02/25/24 01:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*02/22/24 16:35*	*02/25/24 01:35*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*02/22/24 16:35*	*02/25/24 01:35*	*1*

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

Lab Sample ID: MB 880-73439/1-A | **Client Sample ID: Method Blank**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 73600 | **Prep Batch: 73439**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/19/24 09:06	02/20/24 20:27	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-39519-1
SDG: 16187

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

Lab Sample ID: MB 880-73439/1-A
Matrix: Solid
Analysis Batch: 73600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 73439

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/19/24 09:06	02/20/24 20:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/19/24 09:06	02/20/24 20:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*02/19/24 09:06*	*02/20/24 20:27*	*1*
o-Terphenyl	*152*	*S1+*	*70 - 130*	*02/19/24 09:06*	*02/20/24 20:27*	*1*

Lab Sample ID: LCS 880-73439/2-A
Matrix: Solid
Analysis Batch: 73600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 73439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	819.0		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	897.7		mg/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: LCSD 880-73439/3-A
Matrix: Solid
Analysis Batch: 73600

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 73439

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	802.7		mg/Kg		80	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	866.2		mg/Kg		87	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*86*		*70 - 130*

Lab Sample ID: 880-39505-A-2-B MS
Matrix: Solid
Analysis Batch: 73600

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 73439

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.5	U F1	1010	624.1	F1	mg/Kg		58	70 - 130
Diesel Range Organics (Over C10-C28)	<49.5	U F1	1010	507.1	F1	mg/Kg		48	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*67*	*S1-*	*70 - 130*
o-Terphenyl	*66*	*S1-*	*70 - 130*

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-39519-1
SDG: 16187

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

Lab Sample ID: 880-39505-A-2-C MSD
Matrix: Solid
Analysis Batch: 73600

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 73439

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.5	U F1	1010	700.5	F1	mg/Kg		65	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<49.5	U F1	1010	583.6	F1	mg/Kg		55	70 - 130	14	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*79*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73544/1-A
Matrix: Solid
Analysis Batch: 73636

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/20/24 16:00	1

Lab Sample ID: LCS 880-73544/2-A
Matrix: Solid
Analysis Batch: 73636

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	260.4		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-73544/3-A
Matrix: Solid
Analysis Batch: 73636

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	263.2		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 880-39519-1 MS
Matrix: Solid
Analysis Batch: 73636

Client Sample ID: Sample Point 1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	116		253	365.8		mg/Kg		99	90 - 110

Lab Sample ID: 880-39519-1 MSD
Matrix: Solid
Analysis Batch: 73636

Client Sample ID: Sample Point 1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	116		253	368.1		mg/Kg		100	90 - 110	1	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-39519-1
SDG: 16187

GC VOA

Prep Batch: 73889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39519-1	Sample Point 1	Total/NA	Solid	5035	
880-39519-2	Sample Point 2	Total/NA	Solid	5035	
880-39519-3	Northside wall	Total/NA	Solid	5035	
880-39519-4	EastSide Wall	Total/NA	Solid	5035	
880-39519-5	Southside Wall	Total/NA	Solid	5035	
880-39519-6	Westside Wall	Total/NA	Solid	5035	
MB 880-73889/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73889/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73889/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-39506-A-2-E MS	Matrix Spike	Total/NA	Solid	5035	
880-39506-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 73892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-73892/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 73976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39519-1	Sample Point 1	Total/NA	Solid	8021B	73889
880-39519-2	Sample Point 2	Total/NA	Solid	8021B	73889
880-39519-3	Northside wall	Total/NA	Solid	8021B	73889
880-39519-4	EastSide Wall	Total/NA	Solid	8021B	73889
880-39519-5	Southside Wall	Total/NA	Solid	8021B	73889
880-39519-6	Westside Wall	Total/NA	Solid	8021B	73889
MB 880-73889/5-A	Method Blank	Total/NA	Solid	8021B	73889
MB 880-73892/5-A	Method Blank	Total/NA	Solid	8021B	73892
LCS 880-73889/1-A	Lab Control Sample	Total/NA	Solid	8021B	73889
LCSD 880-73889/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73889
880-39506-A-2-E MS	Matrix Spike	Total/NA	Solid	8021B	73889
880-39506-A-2-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	73889

Analysis Batch: 74072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39519-1	Sample Point 1	Total/NA	Solid	Total BTEX	
880-39519-2	Sample Point 2	Total/NA	Solid	Total BTEX	
880-39519-3	Northside wall	Total/NA	Solid	Total BTEX	
880-39519-4	EastSide Wall	Total/NA	Solid	Total BTEX	
880-39519-5	Southside Wall	Total/NA	Solid	Total BTEX	
880-39519-6	Westside Wall	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 73439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39519-1	Sample Point 1	Total/NA	Solid	8015NM Prep	
880-39519-2	Sample Point 2	Total/NA	Solid	8015NM Prep	
880-39519-3	Northside wall	Total/NA	Solid	8015NM Prep	
880-39519-4	EastSide Wall	Total/NA	Solid	8015NM Prep	
880-39519-5	Southside Wall	Total/NA	Solid	8015NM Prep	
880-39519-6	Westside Wall	Total/NA	Solid	8015NM Prep	
MB 880-73439/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Etech Environmental & Safety Solutions Job ID: 880-39519-1
Project/Site: BSWU #3 CTB SDG: 16187

GC Semi VOA (Continued)

Prep Batch: 73439 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-73439/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-73439/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-39505-A-2-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-39505-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 73600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39519-1	Sample Point 1	Total/NA	Solid	8015B NM	73439
880-39519-2	Sample Point 2	Total/NA	Solid	8015B NM	73439
880-39519-3	Northside wall	Total/NA	Solid	8015B NM	73439
880-39519-4	EastSide Wall	Total/NA	Solid	8015B NM	73439
880-39519-5	Southside Wall	Total/NA	Solid	8015B NM	73439
880-39519-6	Westside Wall	Total/NA	Solid	8015B NM	73439
MB 880-73439/1-A	Method Blank	Total/NA	Solid	8015B NM	73439
LCS 880-73439/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	73439
LCSD 880-73439/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	73439
880-39505-A-2-B MS	Matrix Spike	Total/NA	Solid	8015B NM	73439
880-39505-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	73439

Analysis Batch: 73769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39519-1	Sample Point 1	Total/NA	Solid	8015 NM	
880-39519-2	Sample Point 2	Total/NA	Solid	8015 NM	
880-39519-3	Northside wall	Total/NA	Solid	8015 NM	
880-39519-4	EastSide Wall	Total/NA	Solid	8015 NM	
880-39519-5	Southside Wall	Total/NA	Solid	8015 NM	
880-39519-6	Westside Wall	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 73544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39519-1	Sample Point 1	Soluble	Solid	DI Leach	
880-39519-2	Sample Point 2	Soluble	Solid	DI Leach	
880-39519-3	Northside wall	Soluble	Solid	DI Leach	
880-39519-4	EastSide Wall	Soluble	Solid	DI Leach	
880-39519-5	Southside Wall	Soluble	Solid	DI Leach	
880-39519-6	Westside Wall	Soluble	Solid	DI Leach	
MB 880-73544/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73544/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73544/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-39519-1 MS	Sample Point 1	Soluble	Solid	DI Leach	
880-39519-1 MSD	Sample Point 1	Soluble	Solid	DI Leach	

Analysis Batch: 73636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39519-1	Sample Point 1	Soluble	Solid	300.0	73544
880-39519-2	Sample Point 2	Soluble	Solid	300.0	73544
880-39519-3	Northside wall	Soluble	Solid	300.0	73544
880-39519-4	EastSide Wall	Soluble	Solid	300.0	73544
880-39519-5	Southside Wall	Soluble	Solid	300.0	73544

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-39519-1
SDG: 16187

HPLC/IC (Continued)

Analysis Batch: 73636 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-39519-6	Westside Wall	Soluble	Solid	300.0	73544
MB 880-73544/1-A	Method Blank	Soluble	Solid	300.0	73544
LCS 880-73544/2-A	Lab Control Sample	Soluble	Solid	300.0	73544
LCSD 880-73544/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73544
880-39519-1 MS	Sample Point 1	Soluble	Solid	300.0	73544
880-39519-1 MSD	Sample Point 1	Soluble	Solid	300.0	73544

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 880-39519-1
Project/Site: BSWU #3 CTB
SDG: 16187

Client Sample ID: Sample Point 1
Lab Sample ID: 880-39519-1
Date Collected: 02/13/24 10:15
Matrix: Solid
Date Received: 02/16/24 13:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	73889	02/22/24 16:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/25/24 15:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74072	02/25/24 15:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			73769	02/21/24 05:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	73439	02/19/24 09:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73600	02/21/24 05:39	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	73544	02/19/24 14:31	SA	EET MID
Soluble	Analysis	300.0		1			73636	02/20/24 16:20	CH	EET MID

Client Sample ID: Sample Point 2
Lab Sample ID: 880-39519-2
Date Collected: 02/13/24 10:18
Matrix: Solid
Date Received: 02/16/24 13:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	73889	02/22/24 16:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/25/24 16:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74072	02/25/24 16:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			73769	02/21/24 06:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	73439	02/19/24 09:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73600	02/21/24 06:02	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	73544	02/19/24 14:31	SA	EET MID
Soluble	Analysis	300.0		1			73636	02/20/24 16:41	CH	EET MID

Client Sample ID: Northside wall
Lab Sample ID: 880-39519-3
Date Collected: 02/13/24 10:20
Matrix: Solid
Date Received: 02/16/24 13:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	73889	02/22/24 16:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/25/24 16:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74072	02/25/24 16:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			73769	02/21/24 04:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	73439	02/19/24 09:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73600	02/21/24 04:08	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	73544	02/19/24 14:31	SA	EET MID
Soluble	Analysis	300.0		1			73636	02/20/24 16:48	CH	EET MID

Client Sample ID: EastSide Wall
Lab Sample ID: 880-39519-4
Date Collected: 02/13/24 10:22
Matrix: Solid
Date Received: 02/16/24 13:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	73889	02/22/24 16:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/25/24 16:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74072	02/25/24 16:47	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-39519-1
SDG: 16187

Client Sample ID: EastSide Wall

Lab Sample ID: 880-39519-4
Matrix: Solid
Date Collected: 02/13/24 10:22
Date Received: 02/16/24 13:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			73769	02/21/24 04:31	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	73439	02/19/24 09:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73600	02/21/24 04:31	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	73544	02/19/24 14:31	SA	EET MID
Soluble	Analysis	300.0		1			73636	02/20/24 16:54	CH	EET MID

Client Sample ID: Southside Wall

Lab Sample ID: 880-39519-5
Matrix: Solid
Date Collected: 02/13/24 10:24
Date Received: 02/16/24 13:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	73889	02/22/24 16:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/25/24 18:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74072	02/25/24 18:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			73769	02/21/24 04:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	73439	02/19/24 09:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73600	02/21/24 04:54	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	73544	02/19/24 14:31	SA	EET MID
Soluble	Analysis	300.0		1			73636	02/20/24 17:01	CH	EET MID

Client Sample ID: Westside Wall

Lab Sample ID: 880-39519-6
Matrix: Solid
Date Collected: 02/13/24 10:26
Date Received: 02/16/24 13:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	73889	02/22/24 16:19	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73976	02/25/24 18:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74072	02/25/24 18:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			73769	02/21/24 05:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	73439	02/19/24 09:07	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	73600	02/21/24 05:17	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	73544	02/19/24 14:31	SA	EET MID
Soluble	Analysis	300.0		1			73636	02/20/24 17:21	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 880-39519-1
Project/Site: BSWU #3 CTB
SDG: 16187

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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

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

Method Summary

Client: Etech Environmental & Safety Solutions Job ID: 880-39519-1
Project/Site: BSWU #3 CTB SDG: 16187

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-39519-1
SDG: 16187

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-39519-1	Sample Point 1	Solid	02/13/24 10:15	02/16/24 13:29	48"
880-39519-2	Sample Point 2	Solid	02/13/24 10:18	02/16/24 13:29	48"
880-39519-3	Northside wall	Solid	02/13/24 10:20	02/16/24 13:29	0-24"
880-39519-4	EastSide Wall	Solid	02/13/24 10:22	02/16/24 13:29	
880-39519-5	Southside Wall	Solid	02/13/24 10:24	02/16/24 13:29	
880-39519-6	Westside Wall	Solid	02/13/24 10:26	02/16/24 13:29	

Chain of Custody

39519

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa FL (813-620-2000) www.xenco.com Page _____ of _____

2/26/2024

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

Work Order Comments

Program: UST/PST ___ PRP Brownfields RRC Superfund
State of Project:
Reporting Level II Level III PST/UST TRRP Level IV
Deliverables EDD ADaPT Other

Project Name:	BSWU #3 CTB	Turn Around	
Project Number:	16187	Routine	
P.O. Number:		Rush	
Sampler's Name:		Due Date	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	5.9 / 5.8	Thermometer ID		
Received Intact:	(Yes) No		IR8	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.1	
Sample Custody Seals:	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	BTEX (8021B)	TPH (~~TX1005~~ 8015M)	Chloride
Sample point 1	Soil	2/13/24	10:15	48"	1			
Sample point 2			10:18	48"				
Northside wall			10:20	0-24"				
East side wall			10:22					
Southside wall			10:24					
Westside wall			10:26					

ANALYSIS REQUEST

Work Order Notes

~~Distribute to WES~~
Bill Etech

Sample Comments

880-39519 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

2/16/24 1327

Revised Date 051418 Rev 2018 1

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 880-39519-1
SDG Number: 16187

Login Number: 39519
List Number: 1
Creator: Wheeler, Jazmine

List Source: Eurofins Midland

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

APPENDIX F

Correspondence & Notifications

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 313478

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 313478
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2216550022**
Incident Name	**NAPP2216550022 BENSON SHUGART WATERFLOOD UNIT #3 CTB @ 0**
Incident Type	**Oil Release**
Incident Status	**Remediation Plan Approved**

Location of Release Source	
Site Name	**BENSON SHUGART WATERFLOOD UNIT #3 CTB**
Date Release Discovered	**06/09/2022**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	350
What is the estimated number of samples that will be gathered	5
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/12/2024
Time sampling will commence	10:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Contact: Delton Petty Contact #: 432.967.9224
Please provide any information necessary for navigation to sampling site	GPS: 32.713379, -103.919543

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: 313478
	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.	2/12/2024

APPENDIX G

Archived Reports

July 20, 2022

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

Re: Soil Remediation Workplan
Chevron USA
Benson Shugart Waterflood Unit #3 CTB Release (nAPP2216550022)
GPS: N 32.71331° W 103.91948°
Unit Letter "J", Section 26, Township 18 South, Range 30 East
Eddy County, New Mexico

Dear Mr. Hamlet,

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Chevron USA (Chevron), has prepared this Soil Remediation Workplan for the Benson Shugart Waterflood Unit #3 CTB Release Site (Release Site). The legal description of the Release Site is Unit Letter "J", Section 26, Township 18 South, Range 30 East, in Eddy County, New Mexico. The GPS coordinates for the site are N 32.71331° W 103.91948°. A Site Location Map and Aerial Proximity Map are provided as Figure 1 and Figure 2, respectively.

INTRODUCTION

On June 9, 2022, a reportable release occurred at the Release Site. The release was the result of a pin hole in the bottom of a heater treater and impacted the caliche production pad within the containment area. Approximately eleven and three-quarter (11.75) barrels (bbls) of crude oil and twenty-three and nine-tenths (23.9) of produced water was released with approximately nine and six-tenths (9.6) bbls of crude oil recovered via vacuum trucks, for a net loss of two and fifteen-hundredths (2.15) bbls of crude oil and twenty-three and nine-tenths (23.9) bbls of produced water. The initial Form C-141 is provided in Appendix A.

NMOCD SITE CLASSIFICATION

NMOCD assessment and cleanup levels for hydrocarbon and produced water releases are based on depth to groundwater and karst status and follow the criteria in the revised August 2018 Title 19 Chapter 15 part 29 New Mexico Administrative Code (19.15.29 NMAC) regulations. Groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE), New Mexico Bureau of Geology & Mineral Resources (NMBGMR), and United States Geological Survey (USGS) were accessed to determine if any registered water wells were located within a half-mile of the site. The databases identified no registered water wells within a ½-mile radius. No water wells were located within one thousand (1,000) ft of the release. The two closest water wells of the site were USGS 324244103561601 (1.07 miles west) & 324241103561201 (1.07 miles west) with depths ranging from one hundred eighty-four (184) ft below ground surface (bgs) to two hundred five (205) ft bgs for an average depth of one hundred ninety-five (195) ft bgs. In addition, the site is listed as being in a medium Karst Topography region. See Appendix B for maps, along with water well data, detailing the site relative to groundwater locations. Based on the NMOCD site classification system, the following soil remediation levels were assigned to the Release Site:

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

INITIAL ASSESSMENT AND DELINEATION ACTIVITIES

On June 28, 2022, Etech was onsite to perform the initial assessment and delineation of the release. The release, located on Bureau of Land Management (BLM) property, measured approximately forty-six (46) feet (ft) in length and twenty-one (21) ft wide within the bermed containment. The surface dimensions covered an area of approximately 966 square feet. Four (4) auger holes (Bottom Hole 1 through Bottom Hole 4) were installed in the spill area to depths ranging from six (6) inches bgs to forty-eight (48) inches bgs. Refusal was encountered at twelve (12) inches bgs in Bottom Hole 2, twelve (12) inches bgs in Bottom Hole 3, and six (6) inches bgs in Bottom Hole 4. Samples were collected and submitted to Europhins Laboratory in Midland, Texas for analysis of Benzene, Toulene, Ethylbenzene, and Xylenes (BTEX) by EPA method 8021B, Total Petroleum Hydrocarbons (TPH) by EPA method 8015M, and Chlorides by EPA method 300.0. Analytical concentrations for Benzene, Total BTEX, TPH, and/or chloride were above method detection limit (MDL) and/or the New Mexico Oil Conservation Division (NMOCD) remediation standards in Bottom Hole 1 (BH-1) in intervals 0-6” and 6-12”, Bottom Hole 2 (AH-2) in interval 0-6”, Bottom Hole 3 (BH-3) in intervals 0-6” and 6-12”, and Bottom Hole 4 (BH-4) in interval 0-6”. The chlorides were not delineated in Bottom Hole 2, 3, or 4. In addition, TPH was not delineated in Bottom Holes 2, 3, or 4. BTEX was fully delineated in all borings. See Table 1 for analytical results. See Appendix C for attached photos detailing release and impact to pad. See Figure 3 for Delineation Plat.

SOIL DELINEATION AND REMEDIATION WORKPLAN

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

- Impacted soils will be excavated to appropriate depths based on delineation data and stockpiled on plastic awaiting disposal.
- During excavation activities soils will be field screened utilizing chloride test kits and a PID meter for determination of laboratory sampling and additional excavation, if warranted.
- Upon completion of the excavation, confirmation soil samples will be collected every two hundred (200) square feet from the base and sidewalls (representing no more than 50 linear feet) of the excavated areas. Additional, discrete grab samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary. Samples will be submitted to Permian Basin Environmental Labs of Texas (PBELAB) for analysis of BTEX by EPA Method 8021B, TPH by EPA Method 8015M, and Chlorides by EPA method 300.0.
- The impacted soils will be transported off-site for disposal at an NMOCD approved disposal facilty. Estimated 60 cubic yards of impacted soils based on delineation results.
- Upon completion of additional delineation/remediation and requisite soil sampling, the site will be backfilled with locally sourced, non-impacted "like" material from an approved off-site facility and brought back to grade.
- A closure report with final C-141 will be submitted to the NMOCD upon completion of remediation activities.

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

If you have any questions, or if additional information is required, please feel free to call me at 432-563-2200 (office) or 432-653-9697 (cell).

Thank you,

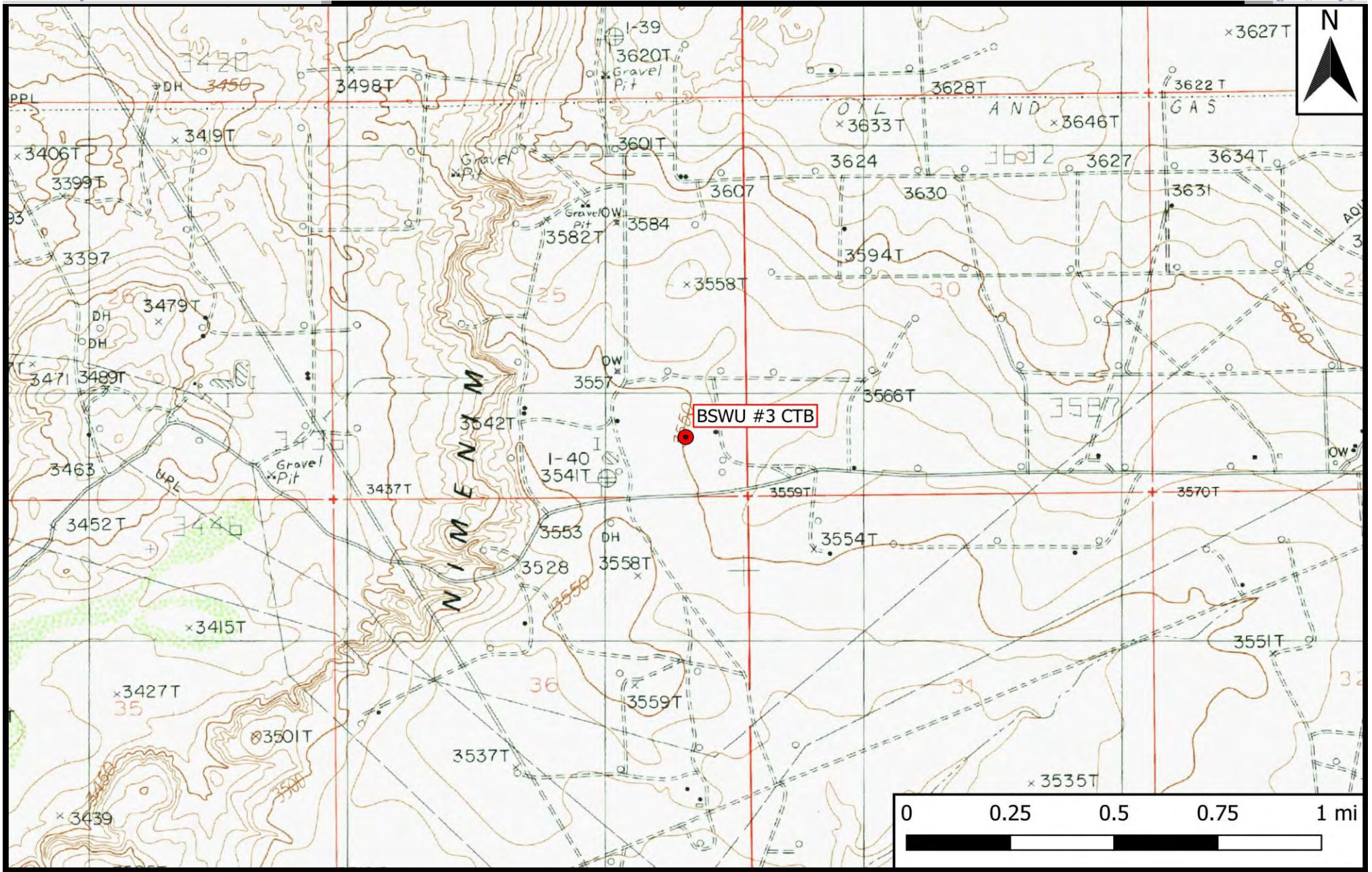
Jeffrey Kindley, P.G.
Senior Project Manager/Geologist
Etech Environmental & Safety Solutions, Inc.

Attachments:

Figure 1 – Topographic Map
Figure 2 – Aerial Proximity Map
Figure 3 – Delineation Plat
Table 1 – Initial Concentrations of BTEX, TPH, and Chloride in Soil
Appendix A: Initial Release Notification and Corrective Action Form C-141
Appendix B: Groundwater Data Maps and Supporting Water Well Data
Appendix C: Photographic Documentation
Appendix D: Laboratory Analytical

cc: File

Figure 1
Topographic Map



Legend

Site Location

Figure 1

Topographic Map

Chevron Environmental Management Company

BSWU #3 CTB

GPS: 32.71331, -103.91948

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: be Date: 7/19/22

Figure 2
Aerial Proximity Map

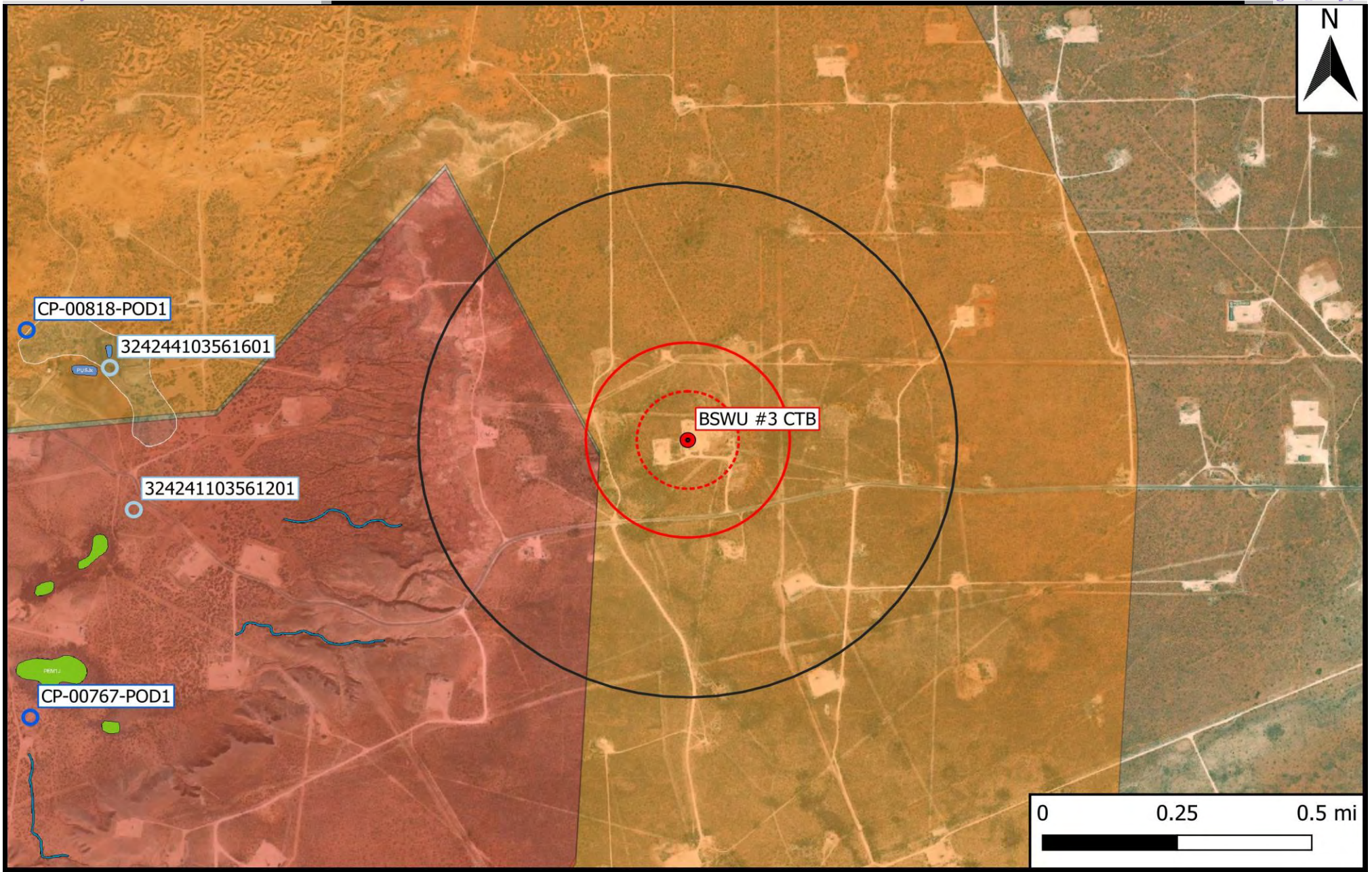


Figure 2
Aerial Proximity Map
Chevron Environmental Management Company
BSWU #3 CTB
GPS: 32.71331, -103.91948
Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: be Date: 7/19/22

Figure 3
Delineation Plat

Environmental & Safety Solutions, Inc.

Delineation Plat	Project Name:	Benson Shugart Waterflood Unit #3 CTB	Project No.:	16187
	Date Sampled:	June 28, 2022	GPS:	32.71331, -103.91948

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

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil
Chevron Environmental Management Company
BSWU #3 CTB
NMOCD Ref. #: nAPP2216550022

NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
NMOCD Reclamation Standard				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Sample ID	**Date**	**Depth (Feet)**	**Soil Status**	**SW 846 8021B**		**SW 846 8015M Ext.**					**4500 Cl**
				Benzene (mg/kg)	**BTEX (mg/kg)**	**GRO C_6-C_{10} (mg/kg)**	**DRO C_{10}-C_{28} (mg/kg)**	**GRO + DRO C_6-C_{28} (mg/kg)**	**ORO C_{28}-C_{36} (mg/kg)**	**TPH C_6-C_{36} (mg/kg)**	**Chloride (mg/kg)**
Bottom Hole 1 @ 0-6"	6/28/2022	0-0.5	In-Situ	0.336	**92.0**	1,570	2,080	3,650	<250	**3,650**	**4,390**
Bottom Hole 1 @ 6-12"	6/28/2022	0.5-1	In-Situ	0.368	**163**	3,780	3,600	7,380	<250	**7,380**	**896**
Bottom Hole 1 @ 18-24"	6/28/2022	1.5-2	In-Situ	<0.00199	0.00892	<50.0	<50.0	<50.0	<50.0	<50.0	48.7
Bottom Hole 1 @ 30-36"	6/28/2022	2.5-3	In-Situ	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	61.7
Bottom Hole 1 @ 42-48"	6/28/2022	3.5-4	In-Situ	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	77.8
Bottom Hole 2 @ 0-6"	6/28/2022	0-0.5	In-Situ	<0.100	25.5	408	804	1,210	<49.8	**1,210**	**7,200**
Bottom Hole 2 @ 6-12"	6/28/2022	0.5-1	In-Situ	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	**1,830**
Bottom Hole 3 @ 0-6"	6/28/2022	0-0.5	In-Situ	<0.399	28.1	1,180	2,020	3,200	<250	**3,200**	**4,600**
Bottom Hole 3 @ 6-12"	6/28/2022	0.5-1	In-Situ	<0.199	33.8	1,010	1,830	2,840	<249	**2,840**	**3,740**
Bottom Hole 4 @ 0-6"	6/28/2022	0-0.5	In-Situ	<0.0994	42.8	1,690	3,610	5,300	<250	**5,300**	**3,830**

Dash (-): Sample not analyzed for that constituent.
Bold: NMOCD Closure Criteria exceedance.
Red: NMOCD Reclamation Standard exceedance.

Appendix A

Initial Release Notification and Corrective Action Form C-141

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2216550022
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.71306 Longitude -103.9192
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Benson Shugart Waterflood Unit #3 CTB	Site Type: Oil
Date Release Discovered: 6-9-22	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
J	26	18S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 11.75	Volume Recovered (bbls) 9.6
☒ Produced Water	Volume Released (bbls) 23.9	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release: Hole in bottom of heater treater		

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2216550022
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email sent to Mike Bratcher from Amy Barnhill on 6-10-22 at 7:39am	

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.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Amy Barnhill Title: Water Specialist

Signature: Amy Barnhill Date: 6-14-22

email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2216550022
District RP	
Facility ID	
Application ID	

Spill Calculations:

MCBU Spill Calculations Worksheet (May 2019 Release) — All light blue areas are Required Information

Only Change Values in Columns B, C & D !

Rectangular spill Do Not Change Formulas!!

All dimensions in feet !

	Length	Width	Depth	Total Volume of Fluid in barrels	
Average total depth	44	19	0.1250	18.61	Fluid total
Use oil depth or skim thickness	44	18	0.0833	11.75	Oil volume
					Water Volume

Triangular spill

All dimensions in feet !

	Length	Width	Depth	Total Volume of Fluid in barrels	
Average total depth				0.00	Fluid total
Use oil depth or skim thickness				0.00	Oil volume
				0.00	Water Volume

Circular Spill

All dimensions in feet !

	Diameter	Depth		Total Volume of Fluid in barrels	
Average total depth				0.00	Fluid total
Use oil depth or skim thickness				0.00	Oil volume
				0.00	Water Volume

Fluid in Soil Rectangular Spill *

All dimensions in feet !

	Length	Width	Depth-Soil Penetration	Total Volume of Fluid in Soil Pore Space (15%) in barrels	
Average total depth	44	18	0.2500	5.29	Fluid total

Fluid in Soil Triangular Spill *

All dimensions in feet !

	Length	Width	Depth-Soil Penetration	Total Volume of Fluid in Soil Pore Space (15%) in barrels	
Average total depth				0.00	Fluid total

Fluid in Soil Circular Spill *

All dimensions in feet !

	Diameter	Depth-Soil Penetration		Total Volume of Fluid in Soil Pore Space (15%) in barrels	
Average total depth				0.00	Fluid total

Conversion	Table
Conversions	Feet
1 inch	0.0833
2 inches	0.1667
3 inches	0.2500
4 inches	0.3333
5 inches	0.4167
6 inches	0.5000
7 inches	0.5833
8 inches	0.6667
9 inches	0.7500
10 inches	0.8333
11 inches	0.9167
1/256 inch	0.000326
1/128 inch	0.000651
1/64 inch	0.0013
1/32 inch	0.0026
1/16 inch	0.0052
1/8 inch	0.0104
1/4 inch	0.0208
3/8 inch	0.0313
1/2 inch	0.0417
5/8 inch	0.0521
3/4 inch	0.0625
7/8 inch	0.0729

Incident Date				6/9/2022	
Incident Time				Start Time	End Time
				12:00 PM	12:00 PM
Location				BSWU 3 CTB	

All volumes in following table in barrels

Area	Standing Liquid	In Soil	dimensions / shape	Oil Volume	Water Volume
1	18.61	5.29	44 x 18	11.75	23.9
2					
3					
4					
5					
6					
7					
8					
Total Fluid				11.75	23.9

Fluid Recovered in barrels	Oil Volume	Water
	9.6	0

Weather Conditions	Sunny /nd 15ss 102deg
Incident Detailed Discription	Hole in bottom of treater. Spill contained in berm. Not lined.
Immediate Actions Taken	Called for vac truck.Shut in wells. Sent supervisor a message.
Equipment Component	Heater treater
Cause	corrosion
Failure Description	Hole in treater bottom

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2216550022
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>184 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

Form C-141 State of New Mexico
Page 4 Oil Conservation Division

Incident ID	nAPP2216550022
District RP	
Facility ID	
Application ID	

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

Printed Name: Amy Barnhill Title: Water Advisor

Signature: Amy Barnhill Date: 7-27-22

email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

Received by: Jocelyn Harimon Date: 07/27/2022

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2216550022
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Amy Barnhill Title: Water Advisor

Signature: Amy Barnhill Date: 7-27-22

email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

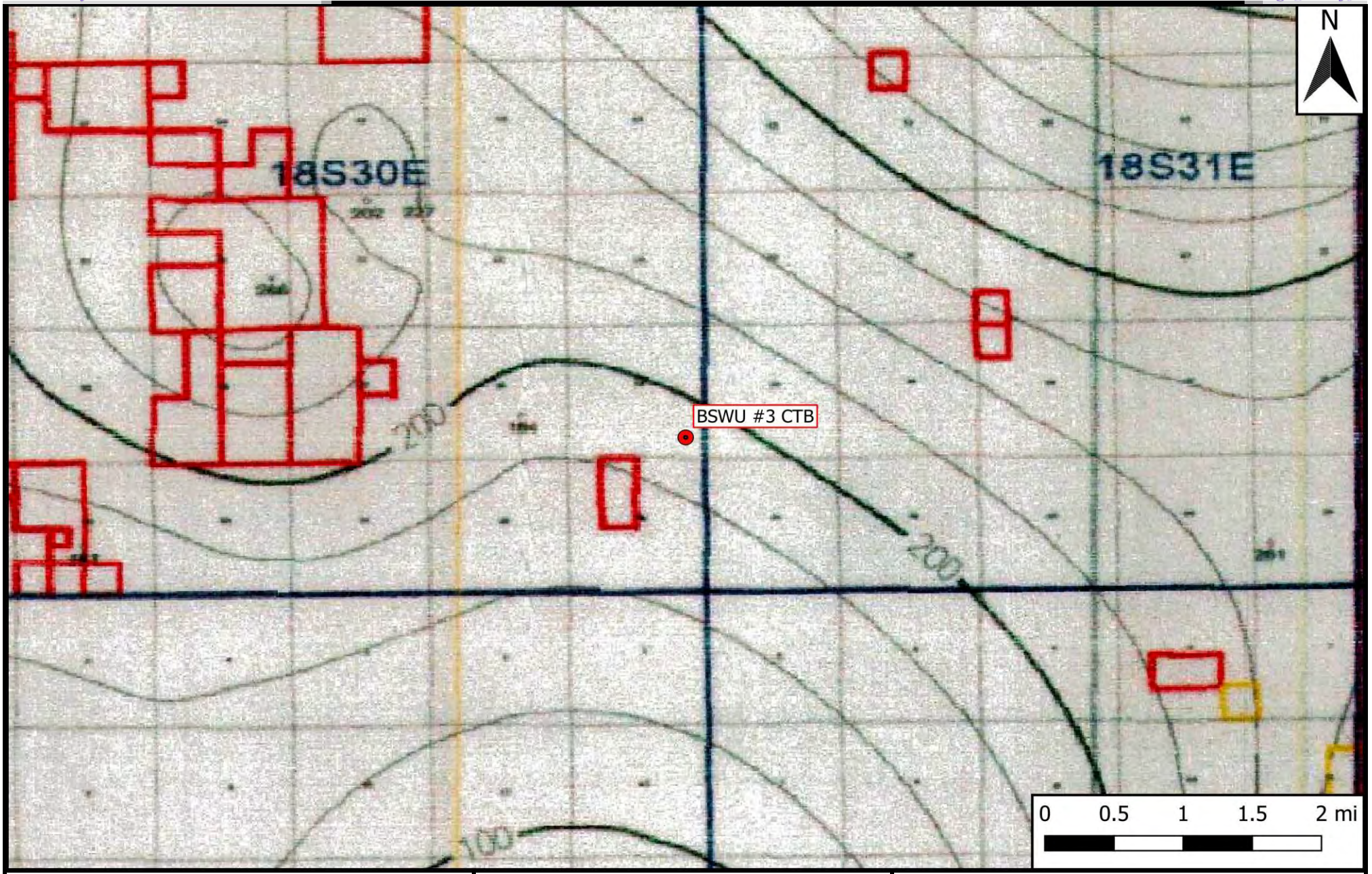
Received by: Jocelyn Harimon Date: _____

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

Signature: _____ Date: _____

Appendix B

Groundwater Data Maps and Supporting Water Well Data



Legend

Site Location

Figure 4

Inferred Depth to Groundwater Trend Map

Chevron Environmental Management Company

BSWU #3 CTB

GPS: 32.71331, -103.91948

Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: be Date: 7/19/22

New Mexico Office of the State Engineer

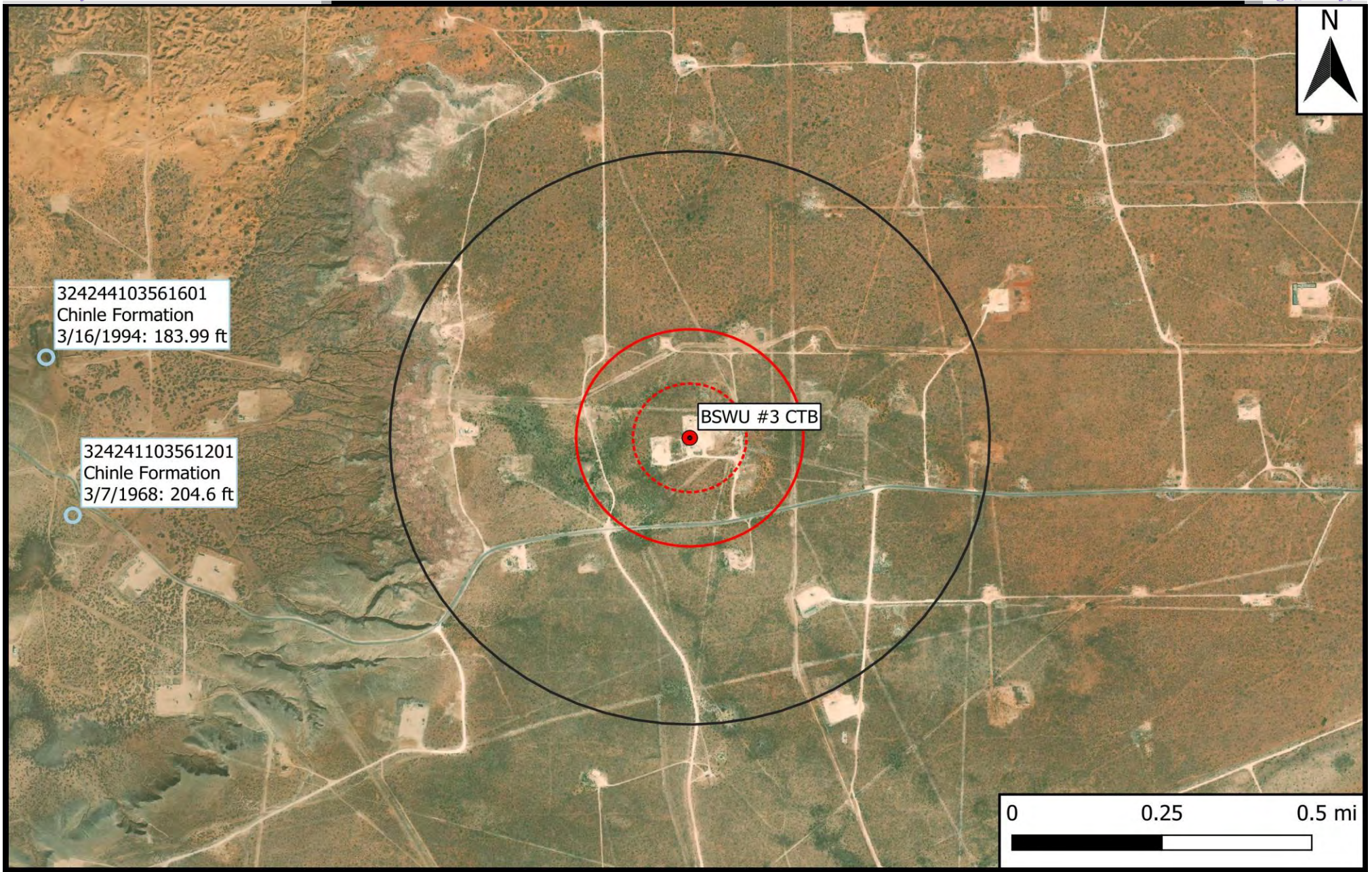
Water Column/Average Depth to Water

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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 601265.37 **Northing (Y):** 3620021.27 **Radius:** 1610



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

Figure 5
USGS Well Proximity Map
Chevron Environmental Management Company
BSWU #3 CTB
GPS: 32.71331, -103.91948
Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: be Date: 7/19/22

USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

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

Click forNews Bulletins

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324241103561201

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

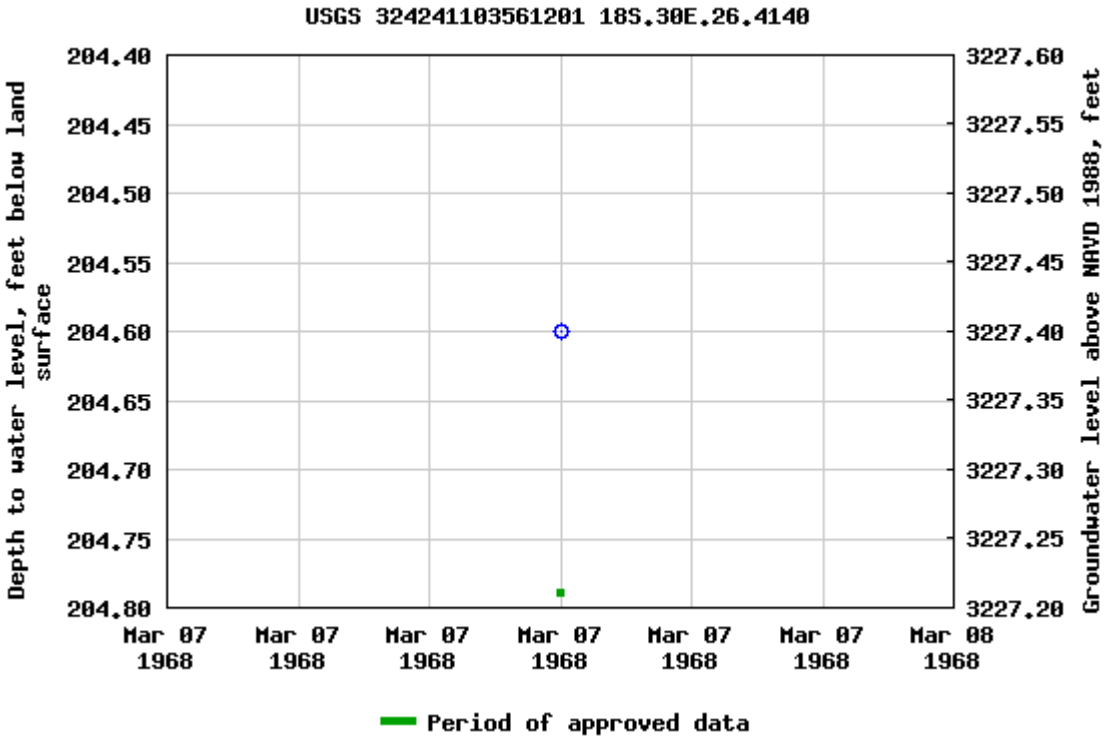
USGS 324241103561201 18S.30E.26.4140

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°42'41", Longitude 103°56'12" NAD27
Land-surface elevation 3,432 feet above NAVD88
The depth of the well is 230 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

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

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-07-19 14:18:29 EDT
0.57 0.49 nadww01

National Water Information System: Web Interface

USGS Water Resources

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

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Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324244103561601

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

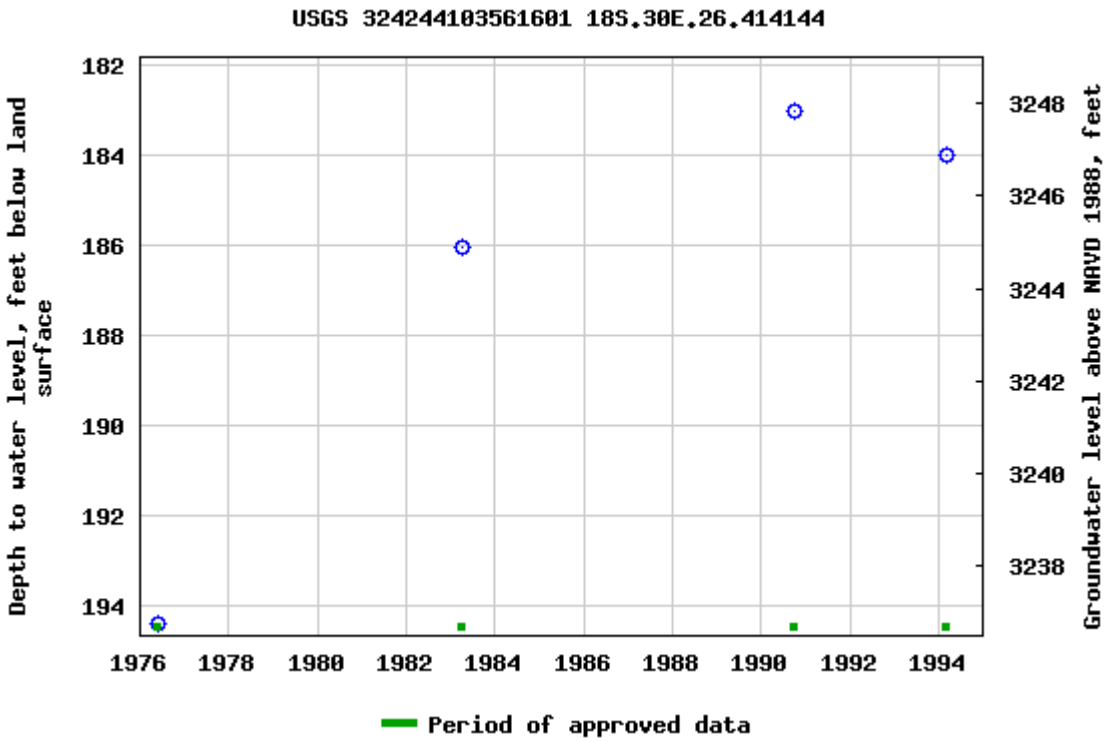
USGS 324244103561601 18S.30E.26.414144

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°42'55.8", Longitude 103°56'16.4" NAD83
Land-surface elevation 3,431 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

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

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-07-19 14:18:30 EDT
0.56 0.49 nadww01

Appendix C

Photographic Documentation

Photographic Log

Photo Number: 1	
Photo Direction: North	
Photo Description: View of impacted area and surrounding containment.	

Photo Number: 2	
Photo Direction: South	
Photo Description: View of impacted area and surrounding containment.	

Photographic Log

Photo Number: 3	
Photo Direction: Southeast	
Photo Description: View of impacted area and surrounding containment.	

Photo Number: 4	
Photo Direction: West	
Photo Description: View of impacted area and surrounding containment.	

Appendix D

Laboratory Analytical

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-16439-1
Client Project/Site: BSWU #3 CTB

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

Attn: Brandon Wilson

JKramer

Authorized for release by:
7/11/2022 10:34:20 AM

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

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Laboratory Job ID: 880-16439-1

Table of Contents

Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-16439-1

Job ID: 880-16439-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-16439-1

Receipt
The samples were received on 6/29/2022 12:51 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: Bottom Hole 1 (880-16439-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: Bottom Hole 2 (880-16439-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: Bottom Hole 1 (880-16439-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: Bottom Hole 3 (880-16439-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-28738 and analytical batch 880-28713 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-28738 and analytical batch 880-28713 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Client Sample ID: Bottom Hole 1
Lab Sample ID: 880-16439-1
Date Collected: 06/28/22 10:00
Matrix: Solid
Date Received: 06/29/22 12:51
Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.336		0.200		mg/Kg		07/07/22 10:17	07/07/22 20:39	100
Toluene	23.5		0.200		mg/Kg		07/07/22 10:17	07/07/22 20:39	100
Ethylbenzene	31.2		0.200		mg/Kg		07/07/22 10:17	07/07/22 20:39	100
m-Xylene & p-Xylene	20.2		0.400		mg/Kg		07/07/22 10:17	07/07/22 20:39	100
o-Xylene	16.8		0.200		mg/Kg		07/07/22 10:17	07/07/22 20:39	100
Xylenes, Total	37.0		0.400		mg/Kg		07/07/22 10:17	07/07/22 20:39	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*07/07/22 10:17*	*07/07/22 20:39*	*100*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*07/07/22 10:17*	*07/07/22 20:39*	*100*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	92.0		0.400		mg/Kg			07/07/22 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3650		250		mg/Kg			07/01/22 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1570		250		mg/Kg		06/30/22 10:13	07/01/22 04:58	5
Diesel Range Organics (Over C10-C28)	2080	*1	250		mg/Kg		06/30/22 10:13	07/01/22 04:58	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		06/30/22 10:13	07/01/22 04:58	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*06/30/22 10:13*	*07/01/22 04:58*	*5*
o-Terphenyl	*80*		*70 - 130*	*06/30/22 10:13*	*07/01/22 04:58*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4390		49.9		mg/Kg			07/07/22 10:01	10

Client Sample ID: Bottom Hole 1
Lab Sample ID: 880-16439-2
Date Collected: 06/28/22 10:02
Matrix: Solid
Date Received: 06/29/22 12:51
Sample Depth: 6-12"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.368		0.200		mg/Kg		07/07/22 10:17	07/07/22 20:59	100
Toluene	50.8		1.00		mg/Kg		07/09/22 14:01	07/10/22 11:12	500
Ethylbenzene	54.9		1.00		mg/Kg		07/09/22 14:01	07/10/22 11:12	500
m-Xylene & p-Xylene	33.8		0.401		mg/Kg		07/07/22 10:17	07/07/22 20:59	100
o-Xylene	22.7		0.200		mg/Kg		07/07/22 10:17	07/07/22 20:59	100
Xylenes, Total	56.5		0.401		mg/Kg		07/07/22 10:17	07/07/22 20:59	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*07/07/22 10:17*	*07/07/22 20:59*	*100*

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Client Sample ID: Bottom Hole 1
Lab Sample ID: 880-16439-2
Date Collected: 06/28/22 10:02
Matrix: Solid
Date Received: 06/29/22 12:51
Sample Depth: 6-12"

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*07/07/22 10:17*	*07/07/22 20:59*	*100*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**163**		1.00		mg/Kg			07/07/22 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**7380**		250		mg/Kg			07/01/22 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**3780**		250		mg/Kg		06/30/22 10:13	07/01/22 05:19	5
Diesel Range Organics (Over C10-C28)	**3600**	***1**	250		mg/Kg		06/30/22 10:13	07/01/22 05:19	5
OII Range Organics (Over C28-C36)	<250	U	250		mg/Kg		06/30/22 10:13	07/01/22 05:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*06/30/22 10:13*	*07/01/22 05:19*	*5*
o-Terphenyl	*111*		*70 - 130*	*06/30/22 10:13*	*07/01/22 05:19*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**896**		25.2		mg/Kg			07/07/22 10:11	5

Client Sample ID: Bottom Hole 1
Lab Sample ID: 880-16439-3
Date Collected: 06/28/22 10:04
Matrix: Solid
Date Received: 06/29/22 12:51
Sample Depth: 18-24"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/05/22 13:34	07/06/22 18:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/05/22 13:34	07/06/22 18:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/05/22 13:34	07/06/22 18:03	1
m-Xylene & p-Xylene	**0.00434**		0.00398		mg/Kg		07/05/22 13:34	07/06/22 18:03	1
o-Xylene	**0.00458**		0.00199		mg/Kg		07/05/22 13:34	07/06/22 18:03	1
Xylenes, Total	**0.00892**		0.00398		mg/Kg		07/05/22 13:34	07/06/22 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*07/05/22 13:34*	*07/06/22 18:03*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*07/05/22 13:34*	*07/06/22 18:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00892**		0.00398		mg/Kg			07/07/22 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/01/22 13:31	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Client Sample ID: Bottom Hole 1
Lab Sample ID: 880-16439-3
Date Collected: 06/28/22 10:04
Matrix: Solid
Date Received: 06/29/22 12:51
Sample Depth: 18-24"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/30/22 10:13	07/01/22 03:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/30/22 10:13	07/01/22 03:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/30/22 10:13	07/01/22 03:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*06/30/22 10:13*	*07/01/22 03:11*	*1*
o-Terphenyl	*119*		*70 - 130*	*06/30/22 10:13*	*07/01/22 03:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**48.7**		5.01		mg/Kg			07/07/22 10:20	1

Client Sample ID: Bottom Hole 1
Lab Sample ID: 880-16439-4
Date Collected: 06/28/22 10:06
Matrix: Solid
Date Received: 06/29/22 12:51
Sample Depth: 30-36"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:34	07/06/22 18:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:34	07/06/22 18:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:34	07/06/22 18:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/05/22 13:34	07/06/22 18:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:34	07/06/22 18:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/05/22 13:34	07/06/22 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*07/05/22 13:34*	*07/06/22 18:23*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*07/05/22 13:34*	*07/06/22 18:23*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/07/22 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/01/22 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/30/22 10:13	07/01/22 03:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/30/22 10:13	07/01/22 03:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/30/22 10:13	07/01/22 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*06/30/22 10:13*	*07/01/22 03:54*	*1*
o-Terphenyl	*105*		*70 - 130*	*06/30/22 10:13*	*07/01/22 03:54*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Client Sample ID: Bottom Hole 1
Lab Sample ID: 880-16439-4
Date Collected: 06/28/22 10:06
Matrix: Solid
Date Received: 06/29/22 12:51
Sample Depth: 30-36"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.7		4.99		mg/Kg			07/07/22 11:45	1

Client Sample ID: Bottom Hole 1
Lab Sample ID: 880-16439-5
Date Collected: 06/28/22 10:08
Matrix: Solid
Date Received: 06/29/22 12:51
Sample Depth: 42-48"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/05/22 13:34	07/06/22 18:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/05/22 13:34	07/06/22 18:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/05/22 13:34	07/06/22 18:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/05/22 13:34	07/06/22 18:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/05/22 13:34	07/06/22 18:44	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/05/22 13:34	07/06/22 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*07/05/22 13:34*	*07/06/22 18:44*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*07/05/22 13:34*	*07/06/22 18:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/07/22 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/01/22 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/30/22 10:13	07/01/22 04:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		06/30/22 10:13	07/01/22 04:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/30/22 10:13	07/01/22 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*06/30/22 10:13*	*07/01/22 04:15*	*1*
o-Terphenyl	*105*		*70 - 130*	*06/30/22 10:13*	*07/01/22 04:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.8		4.95		mg/Kg			07/07/22 11:54	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Client Sample ID: Bottom Hole 2

Lab Sample ID: 880-16439-6
Matrix: Solid
Date Collected: 06/28/22 10:10
Date Received: 06/29/22 12:51
Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.100	U	0.100		mg/Kg		07/01/22 15:28	07/07/22 14:45	50
Toluene	**4.37**		0.100		mg/Kg		07/01/22 15:28	07/07/22 14:45	50
Ethylbenzene	**8.95**		0.100		mg/Kg		07/01/22 15:28	07/07/22 14:45	50
m-Xylene & p-Xylene	**8.26**		0.200		mg/Kg		07/01/22 15:28	07/07/22 14:45	50
o-Xylene	**3.94**		0.100		mg/Kg		07/01/22 15:28	07/07/22 14:45	50
Xylenes, Total	**12.2**		0.200		mg/Kg		07/01/22 15:28	07/07/22 14:45	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*190*	*S1+*	*70 - 130*	*07/01/22 15:28*	*07/07/22 14:45*	*50*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*07/01/22 15:28*	*07/07/22 14:45*	*50*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**25.5**		0.200		mg/Kg			07/07/22 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1210**		49.8		mg/Kg			07/01/22 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**408**		49.8		mg/Kg		06/30/22 10:13	07/01/22 06:45	1
Diesel Range Organics (Over C10-C28)	**804**	***1**	49.8		mg/Kg		06/30/22 10:13	07/01/22 06:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/30/22 10:13	07/01/22 06:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*06/30/22 10:13*	*07/01/22 06:45*	*1*
o-Terphenyl	*116*		*70 - 130*	*06/30/22 10:13*	*07/01/22 06:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7200**		50.0		mg/Kg			07/07/22 10:31	10

Client Sample ID: Bottom Hole 2

Lab Sample ID: 880-16439-7
Matrix: Solid
Date Collected: 06/28/22 10:12
Date Received: 06/29/22 12:51
Sample Depth: 6-12"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:34	07/06/22 19:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:34	07/06/22 19:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:34	07/06/22 19:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/05/22 13:34	07/06/22 19:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:34	07/06/22 19:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/05/22 13:34	07/06/22 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*07/05/22 13:34*	*07/06/22 19:04*	*1*

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Client Sample ID: Bottom Hole 2

Lab Sample ID: 880-16439-7
Matrix: Solid
Date Collected: 06/28/22 10:12
Date Received: 06/29/22 12:51
Sample Depth: 6-12"

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*07/05/22 13:34*	*07/06/22 19:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/07/22 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/01/22 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/30/22 10:13	07/01/22 04:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/30/22 10:13	07/01/22 04:37	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/30/22 10:13	07/01/22 04:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*124*		*70 - 130*	*06/30/22 10:13*	*07/01/22 04:37*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*06/30/22 10:13*	*07/01/22 04:37*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1830**		24.9		mg/Kg			07/07/22 02:40	5

Client Sample ID: Bottom Hole 3

Lab Sample ID: 880-16439-8
Matrix: Solid
Date Collected: 06/28/22 10:14
Date Received: 06/29/22 12:51
Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.399	U	0.399		mg/Kg		07/01/22 15:28	07/07/22 15:26	200
Toluene	**0.667**		0.399		mg/Kg		07/01/22 15:28	07/07/22 15:26	200
Ethylbenzene	**11.8**		0.399		mg/Kg		07/01/22 15:28	07/07/22 15:26	200
m-Xylene & p-Xylene	**11.3**		0.798		mg/Kg		07/01/22 15:28	07/07/22 15:26	200
o-Xylene	**4.35**		0.399		mg/Kg		07/01/22 15:28	07/07/22 15:26	200
Xylenes, Total	**15.7**		0.798		mg/Kg		07/01/22 15:28	07/07/22 15:26	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*	*07/01/22 15:28*	*07/07/22 15:26*	*200*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*07/01/22 15:28*	*07/07/22 15:26*	*200*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**28.1**		0.798		mg/Kg			07/07/22 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3200**		250		mg/Kg			07/01/22 13:31	1

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Client Sample ID: Bottom Hole 3
Lab Sample ID: 880-16439-8
Date Collected: 06/28/22 10:14
Matrix: Solid
Date Received: 06/29/22 12:51
Sample Depth: 0-6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1180		250		mg/Kg		06/30/22 10:13	07/01/22 05:41	5
Diesel Range Organics (Over C10-C28)	2020	*1	250		mg/Kg		06/30/22 10:13	07/01/22 05:41	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		06/30/22 10:13	07/01/22 05:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*06/30/22 10:13*	*07/01/22 05:41*	*5*
o-Terphenyl	*119*		*70 - 130*	*06/30/22 10:13*	*07/01/22 05:41*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4600		24.8		mg/Kg			07/07/22 02:48	5

Client Sample ID: Bottom Hole 3
Lab Sample ID: 880-16439-9
Date Collected: 06/28/22 10:16
Matrix: Solid
Date Received: 06/29/22 12:51
Sample Depth: 6-12"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.199	U	0.199		mg/Kg		07/01/22 15:28	07/07/22 15:06	100
Toluene	1.73		0.199		mg/Kg		07/01/22 15:28	07/07/22 15:06	100
Ethylbenzene	13.3		0.199		mg/Kg		07/01/22 15:28	07/07/22 15:06	100
m-Xylene & p-Xylene	13.4		0.398		mg/Kg		07/01/22 15:28	07/07/22 15:06	100
o-Xylene	5.32		0.199		mg/Kg		07/01/22 15:28	07/07/22 15:06	100
Xylenes, Total	18.7		0.398		mg/Kg		07/01/22 15:28	07/07/22 15:06	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*213*	*S1+*	*70 - 130*	*07/01/22 15:28*	*07/07/22 15:06*	*100*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/01/22 15:28*	*07/07/22 15:06*	*100*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	33.8		0.398		mg/Kg			07/07/22 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2840		249		mg/Kg			07/01/22 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1010		249		mg/Kg		06/30/22 10:13	07/01/22 06:02	5
Diesel Range Organics (Over C10-C28)	1830	*1	249		mg/Kg		06/30/22 10:13	07/01/22 06:02	5
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		06/30/22 10:13	07/01/22 06:02	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*06/30/22 10:13*	*07/01/22 06:02*	*5*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*06/30/22 10:13*	*07/01/22 06:02*	*5*

Eurofins Midland

Client Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Client Sample ID: Bottom Hole 3

Lab Sample ID: 880-16439-9
Matrix: Solid
Date Collected: 06/28/22 10:16
Date Received: 06/29/22 12:51
Sample Depth: 6-12"

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3740		25.2		mg/Kg			07/07/22 02:56	5

Client Sample ID: Bottom Hole 4

Lab Sample ID: 880-16439-10
Matrix: Solid
Date Collected: 06/28/22 10:18
Date Received: 06/29/22 12:51
Sample Depth: 0-6"

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0994	U	0.0994		mg/Kg		07/05/22 13:34	07/06/22 21:07	50
Toluene	11.0		0.0994		mg/Kg		07/05/22 13:34	07/06/22 21:07	50
Ethylbenzene	13.2		0.0994		mg/Kg		07/05/22 13:34	07/06/22 21:07	50
m-Xylene & p-Xylene	11.3		0.199		mg/Kg		07/05/22 13:34	07/06/22 21:07	50
o-Xylene	7.30		0.0994		mg/Kg		07/05/22 13:34	07/06/22 21:07	50
Xylenes, Total	18.6		0.199		mg/Kg		07/05/22 13:34	07/06/22 21:07	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*07/05/22 13:34*	*07/06/22 21:07*	*50*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*07/05/22 13:34*	*07/06/22 21:07*	*50*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	42.8		0.199		mg/Kg			07/07/22 10:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5300		250		mg/Kg			07/01/22 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1690		250		mg/Kg		06/30/22 10:13	07/01/22 06:23	5
Diesel Range Organics (Over C10-C28)	3610	*1	250		mg/Kg		06/30/22 10:13	07/01/22 06:23	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		06/30/22 10:13	07/01/22 06:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*06/30/22 10:13*	*07/01/22 06:23*	*5*
o-Terphenyl	*122*		*70 - 130*	*06/30/22 10:13*	*07/01/22 06:23*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3830		24.9		mg/Kg			07/07/22 03:04	5

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-16439-1	Bottom Hole 1	113	85
880-16439-2	Bottom Hole 1	110	92
880-16439-3	Bottom Hole 1	111	98
880-16439-4	Bottom Hole 1	115	97
880-16439-5	Bottom Hole 1	117	103
880-16439-6	Bottom Hole 2	190 S1+	106
880-16439-7	Bottom Hole 2	121	101
880-16439-8	Bottom Hole 3	142 S1+	104
880-16439-9	Bottom Hole 3	213 S1+	96
880-16439-10	Bottom Hole 4	117	96
880-16557-A-5-E MS	Matrix Spike	111	103
880-16557-A-5-F MSD	Matrix Spike Duplicate	108	98
880-16698-A-11-E MS	Matrix Spike	111	103
880-16698-A-11-F MSD	Matrix Spike Duplicate	110	102
890-2475-A-1-G MS	Matrix Spike	110	102
890-2475-A-1-H MSD	Matrix Spike Duplicate	109	99
890-2497-A-18-A MS	Matrix Spike	117	88
890-2497-A-18-B MSD	Matrix Spike Duplicate	113	101
LCS 880-28904/1-A	Lab Control Sample	107	101
LCS 880-29048/1-A	Lab Control Sample	113	104
LCS 880-29191/1-A	Lab Control Sample	105	100
LCS 880-29360/1-A	Lab Control Sample	113	104
LCSD 880-28904/2-A	Lab Control Sample Dup	107	100
LCSD 880-29048/2-A	Lab Control Sample Dup	112	104
LCSD 880-29191/2-A	Lab Control Sample Dup	109	97
LCSD 880-29360/2-A	Lab Control Sample Dup	113	104
MB 880-28904/5-A	Method Blank	96	87
MB 880-29048/5-A	Method Blank	103	94
MB 880-29191/5-A	Method Blank	103	99
MB 880-29325/5-A	Method Blank	99	90
MB 880-29360/5-A	Method Blank	104	93

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-16439-1	Bottom Hole 1	92	80
880-16439-2	Bottom Hole 1	131 S1+	111
880-16439-3	Bottom Hole 1	117	119
880-16439-4	Bottom Hole 1	91	105
880-16439-5	Bottom Hole 1	96	105
880-16439-6	Bottom Hole 2	109	116
880-16439-7	Bottom Hole 2	124	139 S1+
880-16439-8	Bottom Hole 3	103	119

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

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

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-16439-9	Bottom Hole 3	110	138 S1+										
880-16439-10	Bottom Hole 4	121	122										
890-2471-A-21-B MS	Matrix Spike	89	96										
890-2471-A-21-C MSD	Matrix Spike Duplicate	102	109										
LCS 880-28738/2-A	Lab Control Sample	89	94										
LCSD 880-28738/3-A	Lab Control Sample Dup	81	76										
MB 880-28738/1-A	Method Blank	104	122										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-28904/5-A
Matrix: Solid
Analysis Batch: 29172

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28904

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/01/22 15:28	07/07/22 12:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/01/22 15:28	07/07/22 12:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/01/22 15:28	07/07/22 12:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/01/22 15:28	07/07/22 12:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/01/22 15:28	07/07/22 12:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/01/22 15:28	07/07/22 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*07/01/22 15:28*	*07/07/22 12:00*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*07/01/22 15:28*	*07/07/22 12:00*	*1*

Lab Sample ID: LCS 880-28904/1-A
Matrix: Solid
Analysis Batch: 29172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28904

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1014		mg/Kg		101	70 - 130
Toluene	0.100	0.09844		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2124		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1048		mg/Kg		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-28904/2-A
Matrix: Solid
Analysis Batch: 29172

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28904

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1049		mg/Kg		105	70 - 130	3	35
Toluene	0.100	0.1030		mg/Kg		103	70 - 130	5	35
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2212		mg/Kg		111	70 - 130	4	35
o-Xylene	0.100	0.1094		mg/Kg		109	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-2475-A-1-G MS
Matrix: Solid
Analysis Batch: 29172

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28904

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.09951		mg/Kg		99	70 - 130
Toluene	<0.00201	U	0.101	0.09548		mg/Kg		95	70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

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

Lab Sample ID: 890-2475-A-1-G MS
Matrix: Solid
Analysis Batch: 29172

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28904

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.101	0.09892		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.2043		mg/Kg		101	70 - 130
o-Xylene	<0.00201	U	0.101	0.1009		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-2475-A-1-H MSD
Matrix: Solid
Analysis Batch: 29172

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 28904

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.09182		mg/Kg		92	70 - 130	8	35
Toluene	<0.00201	U	0.100	0.08800		mg/Kg		88	70 - 130	8	35
Ethylbenzene	<0.00201	U	0.100	0.08801		mg/Kg		88	70 - 130	12	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1817		mg/Kg		91	70 - 130	12	35
o-Xylene	<0.00201	U	0.100	0.09018		mg/Kg		90	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 880-29048/5-A
Matrix: Solid
Analysis Batch: 29109

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29048

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:34	07/06/22 12:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:34	07/06/22 12:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:34	07/06/22 12:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/05/22 13:34	07/06/22 12:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/05/22 13:34	07/06/22 12:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/05/22 13:34	07/06/22 12:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*07/05/22 13:34*	*07/06/22 12:38*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*07/05/22 13:34*	*07/06/22 12:38*	*1*

Lab Sample ID: LCS 880-29048/1-A
Matrix: Solid
Analysis Batch: 29109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29048

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1020		mg/Kg		102	70 - 130
Toluene	0.100	0.1140		mg/Kg		114	70 - 130
Ethylbenzene	0.100	0.09745		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1975		mg/Kg		99	70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-16439-1

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

Lab Sample ID: LCS 880-29048/1-A
Matrix: Solid
Analysis Batch: 29109

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29048

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1127		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-29048/2-A
Matrix: Solid
Analysis Batch: 29109

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29048

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1084		mg/Kg		108	70 - 130	6	35
Toluene			0.100	0.1088		mg/Kg		109	70 - 130	5	35
Ethylbenzene			0.100	0.09420		mg/Kg		94	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1925		mg/Kg		96	70 - 130	3	35
o-Xylene			0.100	0.1098		mg/Kg		110	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-2497-A-18-A MS
Matrix: Solid
Analysis Batch: 29109

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 29048

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U	0.101	0.08092		mg/Kg		80	70 - 130		
Toluene	<0.00201	U	0.101	0.09890		mg/Kg		98	70 - 130		
Ethylbenzene	<0.00201	U	0.101	0.08695		mg/Kg		86	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1775		mg/Kg		88	70 - 130		
o-Xylene	<0.00201	U	0.101	0.1012		mg/Kg		100	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: 890-2497-A-18-B MSD
Matrix: Solid
Analysis Batch: 29109

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 29048

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.09817		mg/Kg		98	70 - 130	19	35
Toluene	<0.00201	U	0.100	0.1032		mg/Kg		103	70 - 130	4	35
Ethylbenzene	<0.00201	U	0.100	0.08557		mg/Kg		85	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1738		mg/Kg		87	70 - 130	2	35
o-Xylene	<0.00201	U	0.100	0.09878		mg/Kg		99	70 - 130	2	35

QC Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

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

Lab Sample ID: 890-2497-A-18-B MSD
Matrix: Solid
Analysis Batch: 29109

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 29048

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-29191/5-A
Matrix: Solid
Analysis Batch: 29173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29191

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/07/22 10:17	07/07/22 12:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/07/22 10:17	07/07/22 12:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/07/22 10:17	07/07/22 12:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/07/22 10:17	07/07/22 12:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/07/22 10:17	07/07/22 12:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/07/22 10:17	07/07/22 12:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	07/07/22 10:17	07/07/22 12:31	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/07/22 10:17	07/07/22 12:31	1

Lab Sample ID: LCS 880-29191/1-A
Matrix: Solid
Analysis Batch: 29173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29191

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09870		mg/Kg		99	70 - 130		
Toluene			0.100	0.1043		mg/Kg		104	70 - 130		
Ethylbenzene			0.100	0.08958		mg/Kg		90	70 - 130		
m-Xylene & p-Xylene			0.200	0.1825		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.1042		mg/Kg		104	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-29191/2-A
Matrix: Solid
Analysis Batch: 29173

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29191

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09476		mg/Kg		95	70 - 130	4	35
Toluene			0.100	0.1077		mg/Kg		108	70 - 130	3	35
Ethylbenzene			0.100	0.09471		mg/Kg		95	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1942		mg/Kg		97	70 - 130	6	35
o-Xylene			0.100	0.1100		mg/Kg		110	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

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

Lab Sample ID: LCSD 880-29191/2-A
Matrix: Solid
Analysis Batch: 29173

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29191

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-16557-A-5-E MS
Matrix: Solid
Analysis Batch: 29173

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 29191

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.09714		mg/Kg		96	70 - 130
Toluene	<0.00199	U	0.101	0.1018		mg/Kg		101	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.08591		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1763		mg/Kg		87	70 - 130
o-Xylene	<0.00199	U	0.101	0.09959		mg/Kg		99	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-16557-A-5-F MSD
Matrix: Solid
Analysis Batch: 29173

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 29191

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09385		mg/Kg		94	70 - 130	3	35
Toluene	<0.00199	U	0.100	0.1051		mg/Kg		105	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.100	0.09028		mg/Kg		90	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1853		mg/Kg		92	70 - 130	5	35
o-Xylene	<0.00199	U	0.100	0.1044		mg/Kg		104	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-29325/5-A
Matrix: Solid
Analysis Batch: 29358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29325

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/08/22 14:51	07/09/22 16:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/08/22 14:51	07/09/22 16:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/08/22 14:51	07/09/22 16:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/08/22 14:51	07/09/22 16:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/08/22 14:51	07/09/22 16:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/08/22 14:51	07/09/22 16:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	07/08/22 14:51	07/09/22 16:11	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/08/22 14:51	07/09/22 16:11	1

QC Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

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

Lab Sample ID: MB 880-29360/5-A
Matrix: Solid
Analysis Batch: 29358

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 29360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/09/22 14:01	07/10/22 03:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/09/22 14:01	07/10/22 03:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/09/22 14:01	07/10/22 03:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/09/22 14:01	07/10/22 03:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/09/22 14:01	07/10/22 03:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/09/22 14:01	07/10/22 03:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*07/09/22 14:01*	*07/10/22 03:20*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*07/09/22 14:01*	*07/10/22 03:20*	*1*

Lab Sample ID: LCS 880-29360/1-A
Matrix: Solid
Analysis Batch: 29358

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 29360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1120		mg/Kg		112	70 - 130
Toluene	0.100	0.1081		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1124		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2330		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1229		mg/Kg		123	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-29360/2-A
Matrix: Solid
Analysis Batch: 29358

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 29360

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1089		mg/Kg		109	70 - 130	3	35
Toluene	0.100	0.1033		mg/Kg		103	70 - 130	5	35
Ethylbenzene	0.100	0.1106		mg/Kg		111	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2268		mg/Kg		113	70 - 130	3	35
o-Xylene	0.100	0.1233		mg/Kg		123	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-16698-A-11-E MS
Matrix: Solid
Analysis Batch: 29358

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 29360

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.1101		mg/Kg		110	70 - 130
Toluene	<0.00199	U	0.0998	0.1064		mg/Kg		106	70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

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

Lab Sample ID: 880-16698-A-11-E MS
Matrix: Solid
Analysis Batch: 29358

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 29360

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0998	0.1093		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2257		mg/Kg		112	70 - 130
o-Xylene	<0.00199	U	0.0998	0.1192		mg/Kg		119	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-16698-A-11-F MSD
Matrix: Solid
Analysis Batch: 29358

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 29360

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1060		mg/Kg		106	70 - 130	4	35
Toluene	<0.00199	U	0.100	0.1020		mg/Kg		101	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.100	0.1052		mg/Kg		104	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2165		mg/Kg		107	70 - 130	4	35
o-Xylene	<0.00199	U	0.100	0.1126		mg/Kg		112	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

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

Lab Sample ID: MB 880-28738/1-A
Matrix: Solid
Analysis Batch: 28713

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 28738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/30/22 10:13	06/30/22 22:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/30/22 10:13	06/30/22 22:11	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/30/22 10:13	06/30/22 22:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*06/30/22 10:13*	*06/30/22 22:11*	*1*
o-Terphenyl	*122*		*70 - 130*	*06/30/22 10:13*	*06/30/22 22:11*	*1*

Lab Sample ID: LCS 880-28738/2-A
Matrix: Solid
Analysis Batch: 28713

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1108		mg/Kg		111	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1029		mg/Kg		103	70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-16439-1

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

Lab Sample ID: LCS 880-28738/2-A
Matrix: Solid
Analysis Batch: 28713

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 28738

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: LCSD 880-28738/3-A
Matrix: Solid
Analysis Batch: 28713

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 28738

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1198		mg/Kg		120	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	834.5	*1	mg/Kg		83	70 - 130	21	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: 890-2471-A-21-B MS
Matrix: Solid
Analysis Batch: 28713

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 28738

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	787.7		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *1 F1	996	670.8	F1	mg/Kg		67	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 890-2471-A-21-C MSD
Matrix: Solid
Analysis Batch: 28713

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 28738

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	876.4		mg/Kg		88	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<49.9	U *1 F1	996	767.3		mg/Kg		77	70 - 130	13	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	109		70 - 130

QC Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-28870/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Soluble
Analysis Batch: 29129

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/07/22 05:25	1

Lab Sample ID: LCS 880-28870/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Soluble
Analysis Batch: 29129

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.6		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-28870/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Soluble
Analysis Batch: 29129

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	238.6		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-16437-A-14-B MS
Client Sample ID: Matrix Spike
Matrix: Solid
Prep Type: Soluble
Analysis Batch: 29129

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	353		248	594.0		mg/Kg		97	90 - 110

Lab Sample ID: 880-16437-A-14-C MSD
Client Sample ID: Matrix Spike Duplicate
Matrix: Solid
Prep Type: Soluble
Analysis Batch: 29129

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	353		248	593.7		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-28872/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Soluble
Analysis Batch: 29132

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/07/22 01:53	1

Lab Sample ID: LCS 880-28872/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Soluble
Analysis Batch: 29132

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	239.8		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-28872/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Soluble
Analysis Batch: 29132

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	241.6		mg/Kg		97	90 - 110	1	20

QC Sample Results

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-16439-6 MS
Matrix: Solid
Analysis Batch: 29132

Client Sample ID: Bottom Hole 2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	7200		2500	9838		mg/Kg		106	90 - 110

Lab Sample ID: 880-16439-6 MSD
Matrix: Solid
Analysis Batch: 29132

Client Sample ID: Bottom Hole 2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7200		2500	9743		mg/Kg		102	90 - 110	1	20

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-16439-1

GC VOA

Prep Batch: 28904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16439-6	Bottom Hole 2	Total/NA	Solid	5035	
880-16439-8	Bottom Hole 3	Total/NA	Solid	5035	
880-16439-9	Bottom Hole 3	Total/NA	Solid	5035	
MB 880-28904/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28904/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28904/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2475-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-2475-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 29048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16439-3	Bottom Hole 1	Total/NA	Solid	5035	
880-16439-4	Bottom Hole 1	Total/NA	Solid	5035	
880-16439-5	Bottom Hole 1	Total/NA	Solid	5035	
880-16439-7	Bottom Hole 2	Total/NA	Solid	5035	
880-16439-10	Bottom Hole 4	Total/NA	Solid	5035	
MB 880-29048/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29048/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29048/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2497-A-18-A MS	Matrix Spike	Total/NA	Solid	5035	
890-2497-A-18-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 29109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16439-3	Bottom Hole 1	Total/NA	Solid	8021B	29048
880-16439-4	Bottom Hole 1	Total/NA	Solid	8021B	29048
880-16439-5	Bottom Hole 1	Total/NA	Solid	8021B	29048
880-16439-7	Bottom Hole 2	Total/NA	Solid	8021B	29048
880-16439-10	Bottom Hole 4	Total/NA	Solid	8021B	29048
MB 880-29048/5-A	Method Blank	Total/NA	Solid	8021B	29048
LCS 880-29048/1-A	Lab Control Sample	Total/NA	Solid	8021B	29048
LCSD 880-29048/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29048
890-2497-A-18-A MS	Matrix Spike	Total/NA	Solid	8021B	29048
890-2497-A-18-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29048

Analysis Batch: 29172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16439-6	Bottom Hole 2	Total/NA	Solid	8021B	28904
880-16439-8	Bottom Hole 3	Total/NA	Solid	8021B	28904
880-16439-9	Bottom Hole 3	Total/NA	Solid	8021B	28904
MB 880-28904/5-A	Method Blank	Total/NA	Solid	8021B	28904
LCS 880-28904/1-A	Lab Control Sample	Total/NA	Solid	8021B	28904
LCSD 880-28904/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28904
890-2475-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	28904
890-2475-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	28904

Analysis Batch: 29173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16439-1	Bottom Hole 1	Total/NA	Solid	8021B	29191
880-16439-2	Bottom Hole 1	Total/NA	Solid	8021B	29191
MB 880-29191/5-A	Method Blank	Total/NA	Solid	8021B	29191

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-16439-1

GC VOA (Continued)

Analysis Batch: 29173 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-29191/1-A	Lab Control Sample	Total/NA	Solid	8021B	29191
LCSD 880-29191/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29191
880-16557-A-5-E MS	Matrix Spike	Total/NA	Solid	8021B	29191
880-16557-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29191

Prep Batch: 29191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16439-1	Bottom Hole 1	Total/NA	Solid	5035	
880-16439-2	Bottom Hole 1	Total/NA	Solid	5035	
MB 880-29191/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29191/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29191/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16557-A-5-E MS	Matrix Spike	Total/NA	Solid	5035	
880-16557-A-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 29192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16439-1	Bottom Hole 1	Total/NA	Solid	Total BTEX	
880-16439-2	Bottom Hole 1	Total/NA	Solid	Total BTEX	
880-16439-3	Bottom Hole 1	Total/NA	Solid	Total BTEX	
880-16439-4	Bottom Hole 1	Total/NA	Solid	Total BTEX	
880-16439-5	Bottom Hole 1	Total/NA	Solid	Total BTEX	
880-16439-6	Bottom Hole 2	Total/NA	Solid	Total BTEX	
880-16439-7	Bottom Hole 2	Total/NA	Solid	Total BTEX	
880-16439-8	Bottom Hole 3	Total/NA	Solid	Total BTEX	
880-16439-9	Bottom Hole 3	Total/NA	Solid	Total BTEX	
880-16439-10	Bottom Hole 4	Total/NA	Solid	Total BTEX	

Prep Batch: 29325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-29325/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 29358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16439-2	Bottom Hole 1	Total/NA	Solid	8021B	29360
MB 880-29325/5-A	Method Blank	Total/NA	Solid	8021B	29325
MB 880-29360/5-A	Method Blank	Total/NA	Solid	8021B	29360
LCS 880-29360/1-A	Lab Control Sample	Total/NA	Solid	8021B	29360
LCSD 880-29360/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29360
880-16698-A-11-E MS	Matrix Spike	Total/NA	Solid	8021B	29360
880-16698-A-11-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29360

Prep Batch: 29360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16439-2	Bottom Hole 1	Total/NA	Solid	5035	
MB 880-29360/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29360/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29360/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16698-A-11-E MS	Matrix Spike	Total/NA	Solid	5035	
880-16698-A-11-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

GC Semi VOA

Analysis Batch: 28713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16439-1	Bottom Hole 1	Total/NA	Solid	8015B NM	28738
880-16439-2	Bottom Hole 1	Total/NA	Solid	8015B NM	28738
880-16439-3	Bottom Hole 1	Total/NA	Solid	8015B NM	28738
880-16439-4	Bottom Hole 1	Total/NA	Solid	8015B NM	28738
880-16439-5	Bottom Hole 1	Total/NA	Solid	8015B NM	28738
880-16439-6	Bottom Hole 2	Total/NA	Solid	8015B NM	28738
880-16439-7	Bottom Hole 2	Total/NA	Solid	8015B NM	28738
880-16439-8	Bottom Hole 3	Total/NA	Solid	8015B NM	28738
880-16439-9	Bottom Hole 3	Total/NA	Solid	8015B NM	28738
880-16439-10	Bottom Hole 4	Total/NA	Solid	8015B NM	28738
MB 880-28738/1-A	Method Blank	Total/NA	Solid	8015B NM	28738
LCS 880-28738/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28738
LCSD 880-28738/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28738
890-2471-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	28738
890-2471-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	28738

Prep Batch: 28738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16439-1	Bottom Hole 1	Total/NA	Solid	8015NM Prep	
880-16439-2	Bottom Hole 1	Total/NA	Solid	8015NM Prep	
880-16439-3	Bottom Hole 1	Total/NA	Solid	8015NM Prep	
880-16439-4	Bottom Hole 1	Total/NA	Solid	8015NM Prep	
880-16439-5	Bottom Hole 1	Total/NA	Solid	8015NM Prep	
880-16439-6	Bottom Hole 2	Total/NA	Solid	8015NM Prep	
880-16439-7	Bottom Hole 2	Total/NA	Solid	8015NM Prep	
880-16439-8	Bottom Hole 3	Total/NA	Solid	8015NM Prep	
880-16439-9	Bottom Hole 3	Total/NA	Solid	8015NM Prep	
880-16439-10	Bottom Hole 4	Total/NA	Solid	8015NM Prep	
MB 880-28738/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28738/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28738/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2471-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2471-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 28880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16439-1	Bottom Hole 1	Total/NA	Solid	8015 NM	
880-16439-2	Bottom Hole 1	Total/NA	Solid	8015 NM	
880-16439-3	Bottom Hole 1	Total/NA	Solid	8015 NM	
880-16439-4	Bottom Hole 1	Total/NA	Solid	8015 NM	
880-16439-5	Bottom Hole 1	Total/NA	Solid	8015 NM	
880-16439-6	Bottom Hole 2	Total/NA	Solid	8015 NM	
880-16439-7	Bottom Hole 2	Total/NA	Solid	8015 NM	
880-16439-8	Bottom Hole 3	Total/NA	Solid	8015 NM	
880-16439-9	Bottom Hole 3	Total/NA	Solid	8015 NM	
880-16439-10	Bottom Hole 4	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-16439-1

HPLC/IC

Leach Batch: 28870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16439-1	Bottom Hole 1	Soluble	Solid	DI Leach	
880-16439-2	Bottom Hole 1	Soluble	Solid	DI Leach	
880-16439-3	Bottom Hole 1	Soluble	Solid	DI Leach	
880-16439-4	Bottom Hole 1	Soluble	Solid	DI Leach	
880-16439-5	Bottom Hole 1	Soluble	Solid	DI Leach	
MB 880-28870/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28870/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28870/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16437-A-14-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-16437-A-14-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 28872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16439-6	Bottom Hole 2	Soluble	Solid	DI Leach	
880-16439-7	Bottom Hole 2	Soluble	Solid	DI Leach	
880-16439-8	Bottom Hole 3	Soluble	Solid	DI Leach	
880-16439-9	Bottom Hole 3	Soluble	Solid	DI Leach	
880-16439-10	Bottom Hole 4	Soluble	Solid	DI Leach	
MB 880-28872/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28872/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28872/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16439-6 MS	Bottom Hole 2	Soluble	Solid	DI Leach	
880-16439-6 MSD	Bottom Hole 2	Soluble	Solid	DI Leach	

Analysis Batch: 29129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16439-1	Bottom Hole 1	Soluble	Solid	300.0	28870
880-16439-2	Bottom Hole 1	Soluble	Solid	300.0	28870
880-16439-3	Bottom Hole 1	Soluble	Solid	300.0	28870
880-16439-4	Bottom Hole 1	Soluble	Solid	300.0	28870
880-16439-5	Bottom Hole 1	Soluble	Solid	300.0	28870
MB 880-28870/1-A	Method Blank	Soluble	Solid	300.0	28870
LCS 880-28870/2-A	Lab Control Sample	Soluble	Solid	300.0	28870
LCSD 880-28870/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28870
880-16437-A-14-B MS	Matrix Spike	Soluble	Solid	300.0	28870
880-16437-A-14-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	28870

Analysis Batch: 29132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16439-6	Bottom Hole 2	Soluble	Solid	300.0	28872
880-16439-7	Bottom Hole 2	Soluble	Solid	300.0	28872
880-16439-8	Bottom Hole 3	Soluble	Solid	300.0	28872
880-16439-9	Bottom Hole 3	Soluble	Solid	300.0	28872
880-16439-10	Bottom Hole 4	Soluble	Solid	300.0	28872
MB 880-28872/1-A	Method Blank	Soluble	Solid	300.0	28872
LCS 880-28872/2-A	Lab Control Sample	Soluble	Solid	300.0	28872
LCSD 880-28872/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28872
880-16439-6 MS	Bottom Hole 2	Soluble	Solid	300.0	28872
880-16439-6 MSD	Bottom Hole 2	Soluble	Solid	300.0	28872

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Client Sample ID: Bottom Hole 1
Lab Sample ID: 880-16439-1
Date Collected: 06/28/22 10:00
Matrix: Solid
Date Received: 06/29/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29191	07/07/22 10:17	EL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	29173	07/07/22 20:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29192	07/07/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28880	07/01/22 13:31	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28738	06/30/22 10:13	DM	XEN MID
Total/NA	Analysis	8015B NM		5			28713	07/01/22 04:58	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28870	07/01/22 13:07	SMC	XEN MID
Soluble	Analysis	300.0		10			29129	07/07/22 10:01	CH	XEN MID

Client Sample ID: Bottom Hole 1
Lab Sample ID: 880-16439-2
Date Collected: 06/28/22 10:02
Matrix: Solid
Date Received: 06/29/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	29191	07/07/22 10:17	EL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	29173	07/07/22 20:59	MR	XEN MID
Total/NA	Prep	5035			4.98 g	5 mL	29360	07/09/22 14:01	MR	XEN MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	29358	07/10/22 11:12	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			29192	07/07/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28880	07/01/22 13:31	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28738	06/30/22 10:13	DM	XEN MID
Total/NA	Analysis	8015B NM		5			28713	07/01/22 05:19	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	28870	07/01/22 13:07	SMC	XEN MID
Soluble	Analysis	300.0		5			29129	07/07/22 10:11	CH	XEN MID

Client Sample ID: Bottom Hole 1
Lab Sample ID: 880-16439-3
Date Collected: 06/28/22 10:04
Matrix: Solid
Date Received: 06/29/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	29048	07/05/22 13:34	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29109	07/06/22 18:03	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			29192	07/07/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28880	07/01/22 13:31	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28738	06/30/22 10:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28713	07/01/22 03:11	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	28870	07/01/22 13:07	SMC	XEN MID
Soluble	Analysis	300.0		1			29129	07/07/22 10:20	CH	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Client Sample ID: Bottom Hole 1
Lab Sample ID: 880-16439-4
Date Collected: 06/28/22 10:06
Matrix: Solid
Date Received: 06/29/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29048	07/05/22 13:34	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29109	07/06/22 18:23	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			29192	07/07/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28880	07/01/22 13:31	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28738	06/30/22 10:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28713	07/01/22 03:54	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	28870	07/01/22 13:07	SMC	XEN MID
Soluble	Analysis	300.0		1			29129	07/07/22 11:45	CH	XEN MID

Client Sample ID: Bottom Hole 1
Lab Sample ID: 880-16439-5
Date Collected: 06/28/22 10:08
Matrix: Solid
Date Received: 06/29/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	29048	07/05/22 13:34	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29109	07/06/22 18:44	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			29192	07/07/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28880	07/01/22 13:31	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28738	06/30/22 10:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28713	07/01/22 04:15	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28870	07/01/22 13:07	SMC	XEN MID
Soluble	Analysis	300.0		1			29129	07/07/22 11:54	CH	XEN MID

Client Sample ID: Bottom Hole 2
Lab Sample ID: 880-16439-6
Date Collected: 06/28/22 10:10
Matrix: Solid
Date Received: 06/29/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	28904	07/01/22 15:28	MR	XEN MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	29172	07/07/22 14:45	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			29192	07/07/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28880	07/01/22 13:31	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28738	06/30/22 10:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28713	07/01/22 06:45	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	28872	07/01/22 13:09	SMC	XEN MID
Soluble	Analysis	300.0		10			29132	07/07/22 10:31	CH	XEN MID

Client Sample ID: Bottom Hole 2
Lab Sample ID: 880-16439-7
Date Collected: 06/28/22 10:12
Matrix: Solid
Date Received: 06/29/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	29048	07/05/22 13:34	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29109	07/06/22 19:04	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			29192	07/07/22 10:19	AJ	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Client Sample ID: Bottom Hole 2
Lab Sample ID: 880-16439-7
Date Collected: 06/28/22 10:12
Matrix: Solid
Date Received: 06/29/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			28880	07/01/22 13:31	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28738	06/30/22 10:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28713	07/01/22 04:37	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	28872	07/01/22 13:09	SMC	XEN MID
Soluble	Analysis	300.0		5			29132	07/07/22 02:40	CH	XEN MID

Client Sample ID: Bottom Hole 3
Lab Sample ID: 880-16439-8
Date Collected: 06/28/22 10:14
Matrix: Solid
Date Received: 06/29/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28904	07/01/22 15:28	MR	XEN MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	29172	07/07/22 15:26	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			29192	07/07/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28880	07/01/22 13:31	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28738	06/30/22 10:13	DM	XEN MID
Total/NA	Analysis	8015B NM		5			28713	07/01/22 05:41	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	28872	07/01/22 13:09	SMC	XEN MID
Soluble	Analysis	300.0		5			29132	07/07/22 02:48	CH	XEN MID

Client Sample ID: Bottom Hole 3
Lab Sample ID: 880-16439-9
Date Collected: 06/28/22 10:16
Matrix: Solid
Date Received: 06/29/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	28904	07/01/22 15:28	MR	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	29172	07/07/22 15:06	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			29192	07/07/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28880	07/01/22 13:31	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28738	06/30/22 10:13	DM	XEN MID
Total/NA	Analysis	8015B NM		5			28713	07/01/22 06:02	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	28872	07/01/22 13:09	SMC	XEN MID
Soluble	Analysis	300.0		5			29132	07/07/22 02:56	CH	XEN MID

Client Sample ID: Bottom Hole 4
Lab Sample ID: 880-16439-10
Date Collected: 06/28/22 10:18
Matrix: Solid
Date Received: 06/29/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29048	07/05/22 13:34	EL	XEN MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	29109	07/06/22 21:07	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			29192	07/07/22 10:19	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28880	07/01/22 13:31	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28738	06/30/22 10:13	DM	XEN MID
Total/NA	Analysis	8015B NM		5			28713	07/01/22 06:23	SM	XEN MID

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Client Sample ID: Bottom Hole 4
Lab Sample ID: 880-16439-10
Date Collected: 06/28/22 10:18
Matrix: Solid
Date Received: 06/29/22 12:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	28872	07/01/22 13:09	SMC	XEN MID
Soluble	Analysis	300.0		5			29132	07/07/22 03:04	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Job ID: 880-16439-1
Project/Site: BSWU #3 CTB

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

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

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-16439-1

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: BSWU #3 CTB

Job ID: 880-16439-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-16439-1	Bottom Hole 1	Solid	06/28/22 10:00	06/29/22 12:51	0-6"
880-16439-2	Bottom Hole 1	Solid	06/28/22 10:02	06/29/22 12:51	6-12"
880-16439-3	Bottom Hole 1	Solid	06/28/22 10:04	06/29/22 12:51	18-24"
880-16439-4	Bottom Hole 1	Solid	06/28/22 10:06	06/29/22 12:51	30-36"
880-16439-5	Bottom Hole 1	Solid	06/28/22 10:08	06/29/22 12:51	42-48"
880-16439-6	Bottom Hole 2	Solid	06/28/22 10:10	06/29/22 12:51	0-6"
880-16439-7	Bottom Hole 2	Solid	06/28/22 10:12	06/29/22 12:51	6-12"
880-16439-8	Bottom Hole 3	Solid	06/28/22 10:14	06/29/22 12:51	0-6"
880-16439-9	Bottom Hole 3	Solid	06/28/22 10:16	06/29/22 12:51	6-12"
880-16439-10	Bottom Hole 4	Solid	06/28/22 10:18	06/29/22 12:51	0-6"

Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432-704-5440) EL Paso TX (915)585-3443 Lubbock TX (806)794-1296
Hobbs NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-620-2000) www xenco com

Work Order No: 16439

Page 1 of 1

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

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name	BSWU #3 CTB	Turn Around	
Project Number	16187	Routine ☒	
P O Number	16187	Rush	
Sampler's Name	Blake Estep	Due Date	

SAMPLE RECEIPT			
Temp Blank	Yes No	Wet Ice	Yes No
Temperature (°C)	5.3 | 5.1	Thermometer ID	
Received Intact.	Yes No		
Cooler Custody Seals	Yes No N/A	Correction Factor	5.3 | 5.1
Sample Custody Seals	Yes No N/A	Total Containers	

ANALYSIS REQUEST

Work Order Notes

TAT starts the day recevied by the lab if received by 4 30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (8015M)	BTEX (8021B)	Chloride (E300)
Bottom Hole 1	S	6/28/2022	10 00	0-6"	1	X	X	X
Bottom Hole 1	S	6/28/2022	10 02	6-12"	1	X	X	X
Bottom Hole 1	S	6/28/2022	10 04	18-24"	1	X	X	X
Bottom Hole 1	S	6/28/2022	10 06	30-36"	1	X	X	X
Bottom Hole 1	S	6/28/2022	10 08	42-48"	1	X	X	X
Bottom Hole 2	S	6/28/2022	10 10	0-6"	1	X	X	X
Bottom Hole 2	S	6/28/2022	10 12	6-12"	1	X	X	X
Bottom Hole 3	S	6/28/2022	10 14	0-6"	1	X	X	X
Bottom Hole 3	S	6/28/2022	10 16	6-12"	1	X	X	X
Bottom Hole 4	S	6/28/2022	10 18	0-6"	1	X	X	X

Sample Comments

880-16439 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		6/29/22	2		
3			4		
5		1 1351	6		

Revised Date 051418 Rev 2018 1

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 880-16439-1

Login Number: 16439
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2216550022
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Amy Barnhill Title: Water Advisor

Signature: Amy Barnhill Date: 7-27-22

email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

Received by: Jocelyn Harimon Date: 11/21/2022

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

Signature: Robert Hamlet Date: 11/21/2022

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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: 129083
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Confirmation samples should be collected every 200 ft2. The work will need to occur in 90 days after the work plan has been approved.	11/21/2022

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QUESTIONS

Action 367849

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 367849
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2216550022**
Incident Name	**NAPP2216550022 BENSON SHUGART WATERFLOOD UNIT #3 CTB @ 0**
Incident Type	**Oil Release**
Incident Status	**Deferral Request Received**
Incident Facility	**[fAPP2133349179] Benson Shugart 3 Battery**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BENSON SHUGART WATERFLOOD UNIT #3 CTB
Date Release Discovered	06/09/2022
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion | Treating Tower | Crude Oil | Released: 12 BBL | Recovered: 10 BBL | Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion | Treating Tower | Produced Water | Released: 24 BBL | Recovered: 0 BBL | Lost: 24 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.*

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 367849
	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	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**
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: 07/29/2024

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 367849
	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 100 and 500 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
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 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 500 and 1000 (ft.)
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)	7200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	15000
GRO+DRO (EPA SW-846 Method 8015M)	11709
BTEX (EPA SW-846 Method 8021B or 8260B)	163
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	06/28/2022
On what date will (or did) the final sampling or liner inspection occur	02/12/2024
On what date will (or was) the remediation complete(d)	02/19/2024
What is the estimated surface area (in square feet) that will be reclaimed	1403
What is the estimated volume (in cubic yards) that will be reclaimed	187
What is the estimated surface area (in square feet) that will be remediated	819
What is the estimated volume (in cubic yards) that will be remediated	100
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.	

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QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 367849
	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: 07/29/2024
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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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 367849
	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 soil impacts above the Closure Criteria appear to solely reside below and directly adjacent to active production equipment and utilities within the earthen berm containment, based on the delineation and final confirmation excavation soil samples in the vicinity of areas that could not be safely excavated at this time.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	584
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	87
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	Benson Shugart 3 Battery [fAPP2133349179]
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: 07/29/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**313478**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**02/12/2024**
What was the (estimated) number of samples that were to be gathered	**5**
What was the sampling surface area in square feet	**350**

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

Action 367849

CONDITIONS

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	Action Number: 367849
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Deferral Request is approved. Deferral area includes sampling locations Auger Hole 2, Auger Hole 4, North Wall and North Side Wall #1 are characterized by concentrations of TPH between 146 mg/kg and 15,000 mg/kg within the top 4 feet bgs.	8/1/2024
crystal.walker	Per 19.15.29.12.C.(2) If the 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 approved until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first. Final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.	8/1/2024