



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 facility. 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

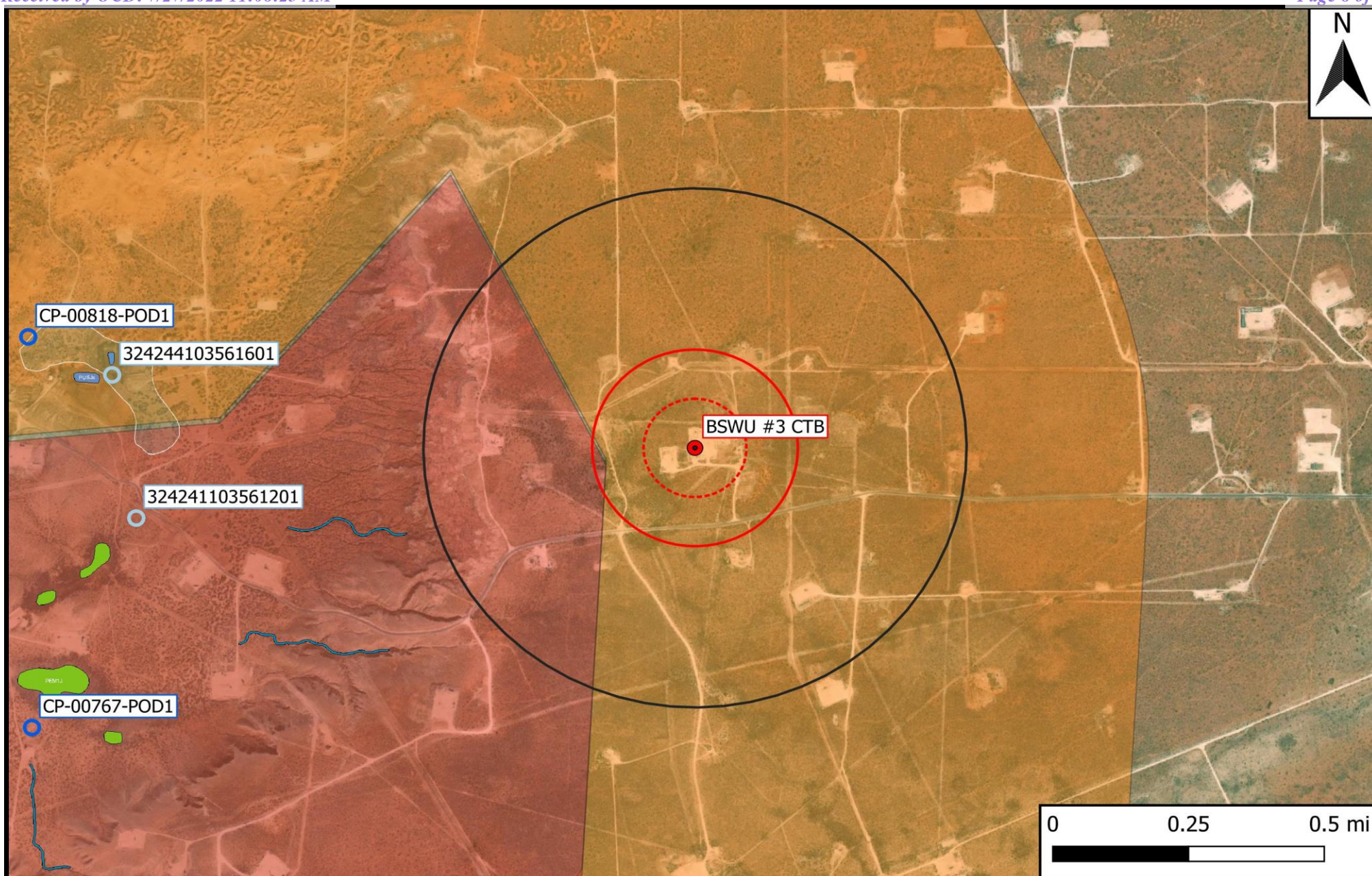
cc: File

Figure 1

Topographic Map

Figure 2

Aerial Proximity Map



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

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



Drafted: mag

Checked: be

Date: 7/19/22

Figure 3

Delineation Plat

Delineation Plat

Project Name:	Benson Shugart Waterflood Unit #3 CTB	Project No.:	16187	Page 10 of 70
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)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 11.75	Volume Recovered (bbls) 9.6
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 23.9	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Hole in bottom of heater treater

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

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:  _____ Date: 6-14-22 _____

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

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2216550022
District RP	
Facility ID	
Application ID	

Spill Calculations:

MCBU Spill Calculations Worksheet (May 2019 Release)								If light blue areas are Required Information		Incident Date		6/9/2022	
Only Change Values in Columns B, C & D!										Incident Time		Start Time	End Time
Rectangular spill Do Not Change Formulas!!								Conversion		Table		12:00 PM 12:00 PM	
All dimensions in feet !										Location		BSWU 3 CTB	
Length Width Depth Total Volume of Fluid in barrels								Conversions		Feet		All volumes in following table in barrels	
Average total depth	44	19	0.1250	18.61	Fluid total	1 inch	0.0833	Area	Standing Liquid	In Soil	dimensions / shape	Oil Volume	Water Volume
Use oil depth or skim thickness	44	18	0.0833	11.75	Oil volume	2 inches	0.1667	1	18.61	5.29	44 x 18	11.75	23.9
					Water Volume	3 inches	0.2500	2					
						4 inches	0.3333	3					
Triangular spill													
All dimensions in feet !													
Length Width Depth Total Volume of Fluid in barrels								Conversions		Feet			
Average total depth				0.00	Fluid total	5 inches	0.4167	4					
Use oil depth or skim thickness				0.00	Oil volume	6 inches	0.5000	5					
				0.00	Water Volume	7 inches	0.5833	6					
				0.00		8 inches	0.6667	7					
				0.00		9 inches	0.7500	8					
				0.00		10 inches	0.8333						
				0.00		11 inches	0.9167						
Circular Spill												Total Fluid 11.75 23.9	
All dimensions in feet !													
Diameter Depth Total Volume of Fluid in barrels								Conversions		Feet		Fluid Recovered in barrels Oil Volume Water	
Average total depth				0.00	Fluid total	1/256 inch	0.00326					9.6	0
Use oil depth or skim thickness				0.00	Oil volume	1/128 inch	0.00651						
				0.00	Water Volume	1/64 inch	0.0013						
				0.00		1/32 inch	0.0026						
				0.00		1/16 inch	0.0052						
				0.00		1/8 inch	0.0104						
				0.00		1/4 inch	0.0208						
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								Conversions		Feet		Weather Conditions Sunny /nd 15s: 102deg	
Average total depth	44	18	0.2500	5.29	Fluid total	5/8 inch	0.0521						
						3/4 inch	0.0625						
						7/8 inch	0.0729						
Fluid in Soil Triangular Spill *												Incident Detailed Discription	
All dimensions in feet !												Hole in bottom of treater. Spill contained in berm. Not lined.	
Length Width Depth-Soil Penetration Total Volume of Fluid in Soil Pore Space (15%) in barrels								Conversions		Feet		Immediate Actions Taken Called for vac truck. Shut in wells. Sent supervisor a message.	
Average total depth				0.00	Fluid total								
Fluid in Soil Circular Spill *												Equipment Component Heater treater	
All dimensions in feet !												Cause corrosion	
Diameter Depth-Soil Penetration Total Volume of Fluid in Soil Pore Space (15%) in barrels								Conversions		Feet			
Average total depth				0.00	Fluid total								
Fluid in Soil Circular Spill *												Failure Description	
All dimensions in feet !												Hole in treater bottom	
Diameter Depth-Soil Penetration Total Volume of Fluid in Soil Pore Space (15%) in barrels								Conversions		Feet			
Average total depth				0.00	Fluid total								

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

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

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

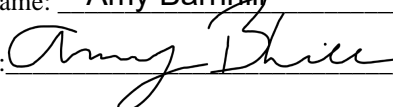
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile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

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

State of New Mexico
Oil Conservation Division

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:  Date: 7-27-22
email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

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

Incident ID	nAPP2216550022
District RP	
Facility ID	
Application ID	

Remediation Plan

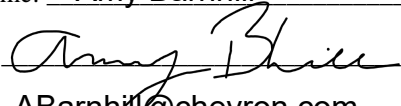
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ 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:  Date: 7-27-22
email: ABarnhill@chevron.com Telephone: 432-687-7108

OCD Only

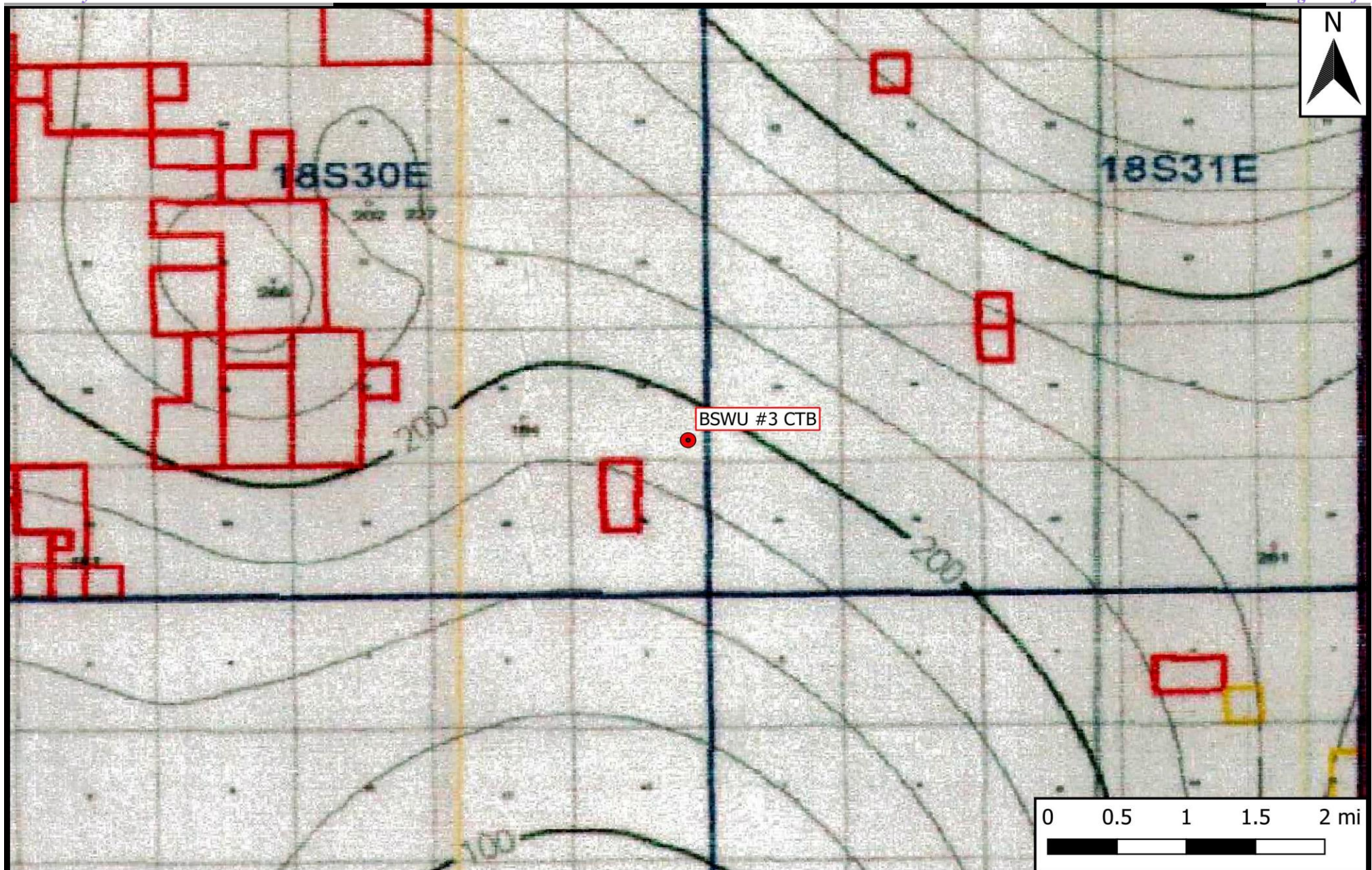
Received by: Jocelyn Harimon Date: _____

☐ 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



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)

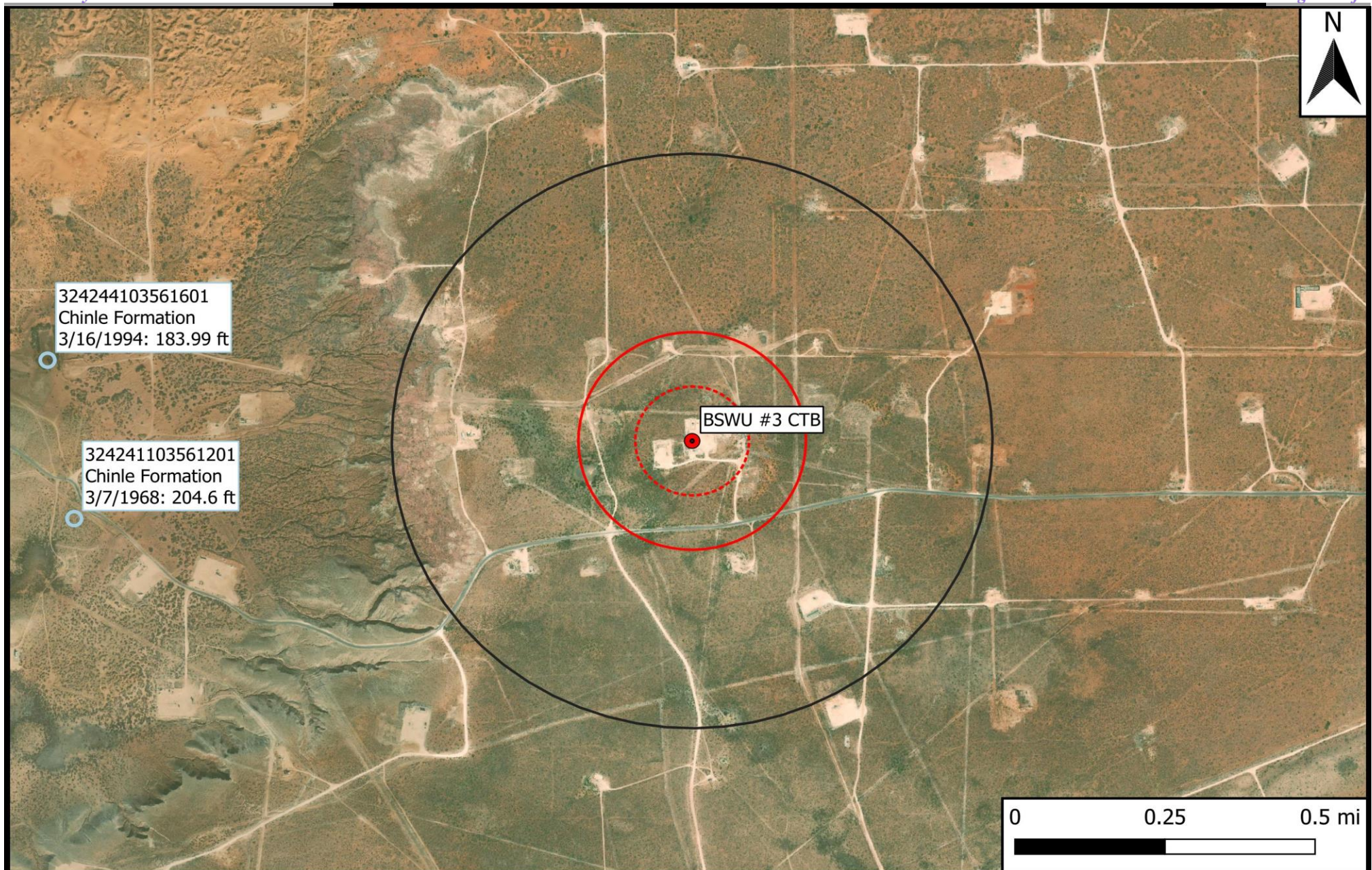
No records found.

UTMNAD83 Radius Search (in meters):

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

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

7/19/22 12:20 PM WATER COLUMN/ AVERAGE
DEPTH TO WATER

**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



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 for News 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.

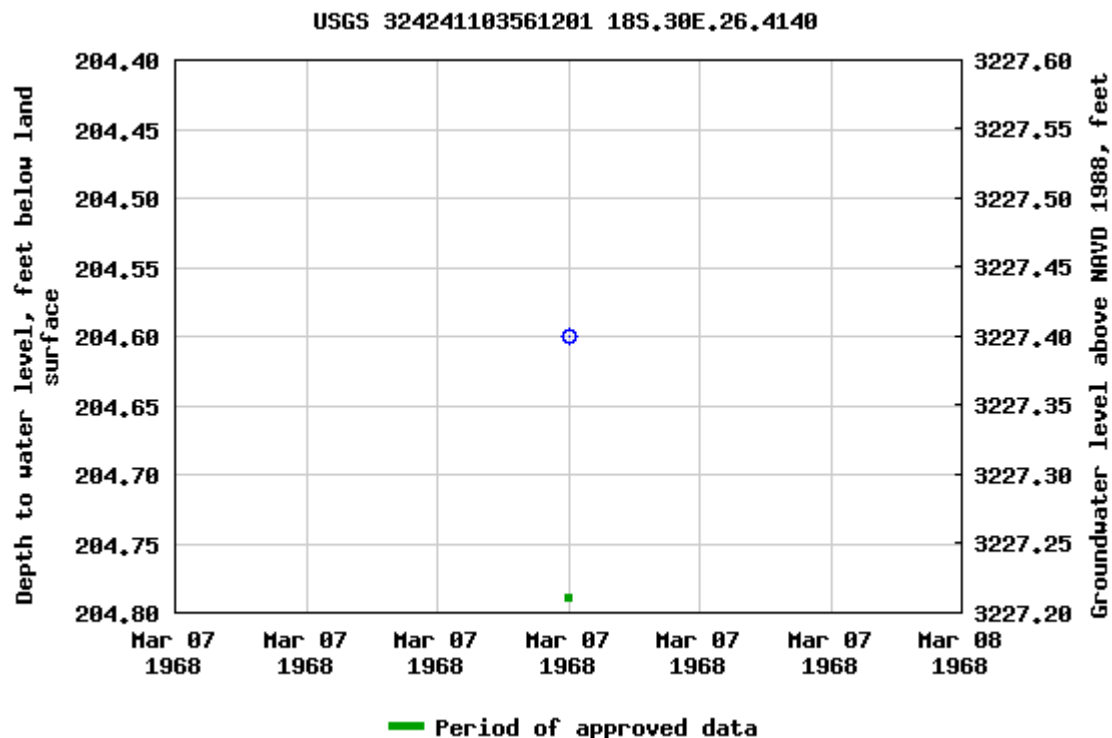
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Title: Groundwater for USA: Water Levels

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



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater


Geographic Area:

United States

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Groundwater levels for the Nation

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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.

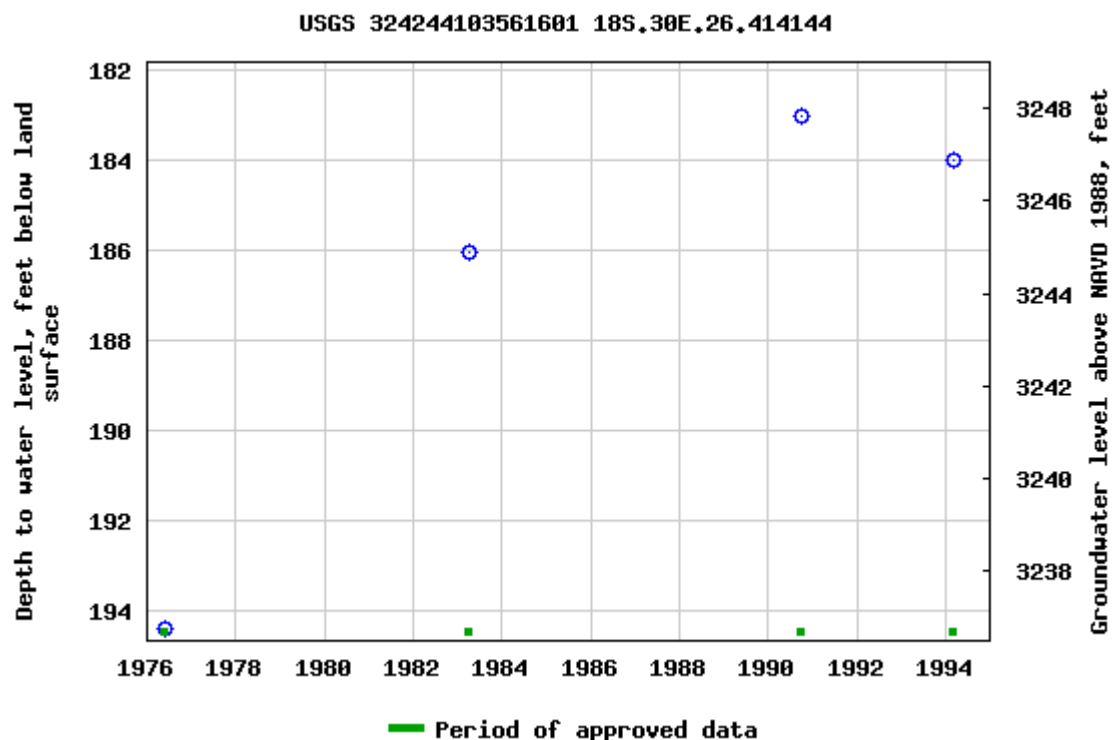
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Title: Groundwater for USA: Water Levels

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

Page Contact Information: [USGS Water Data Support Team](#)

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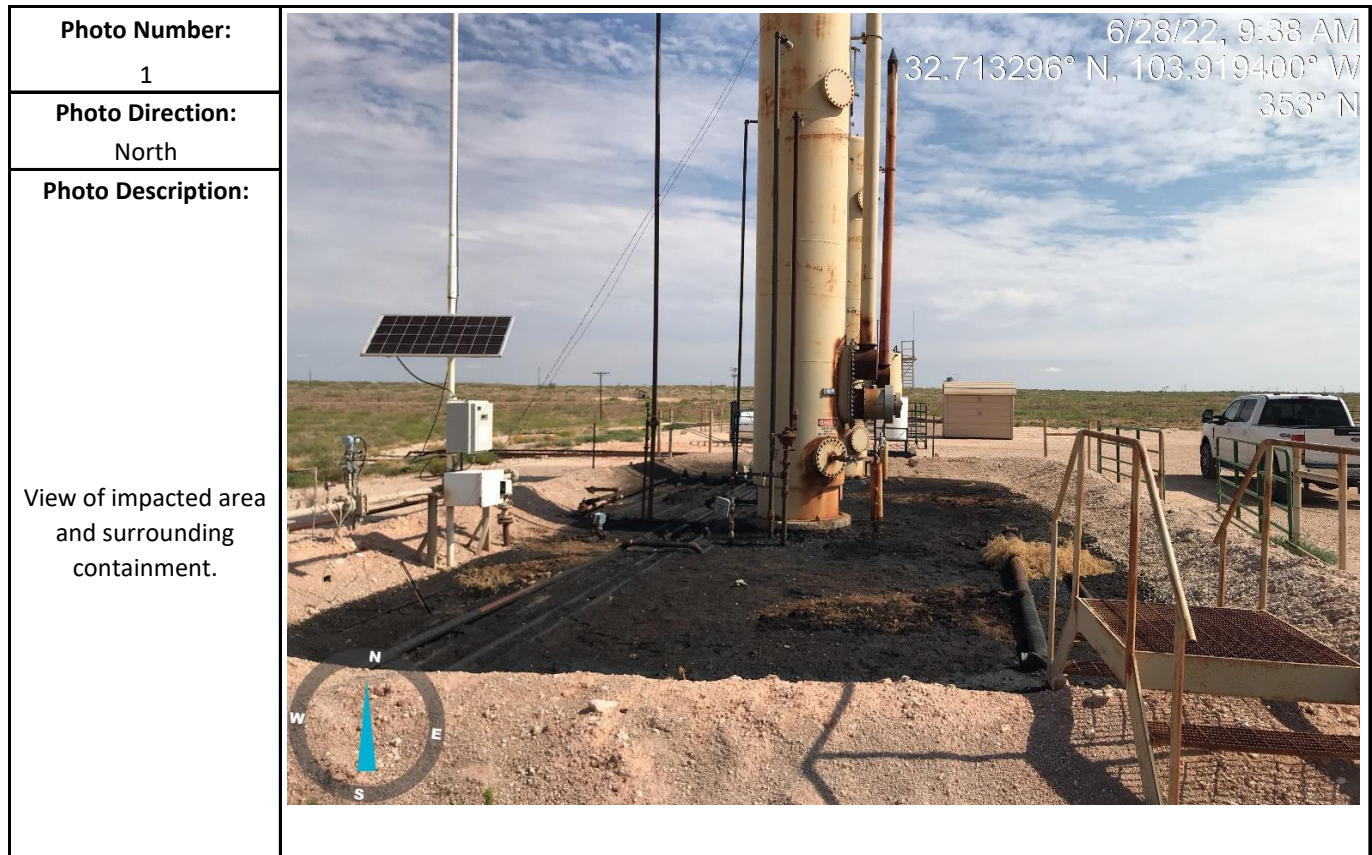
0.56 0.49 nadww01



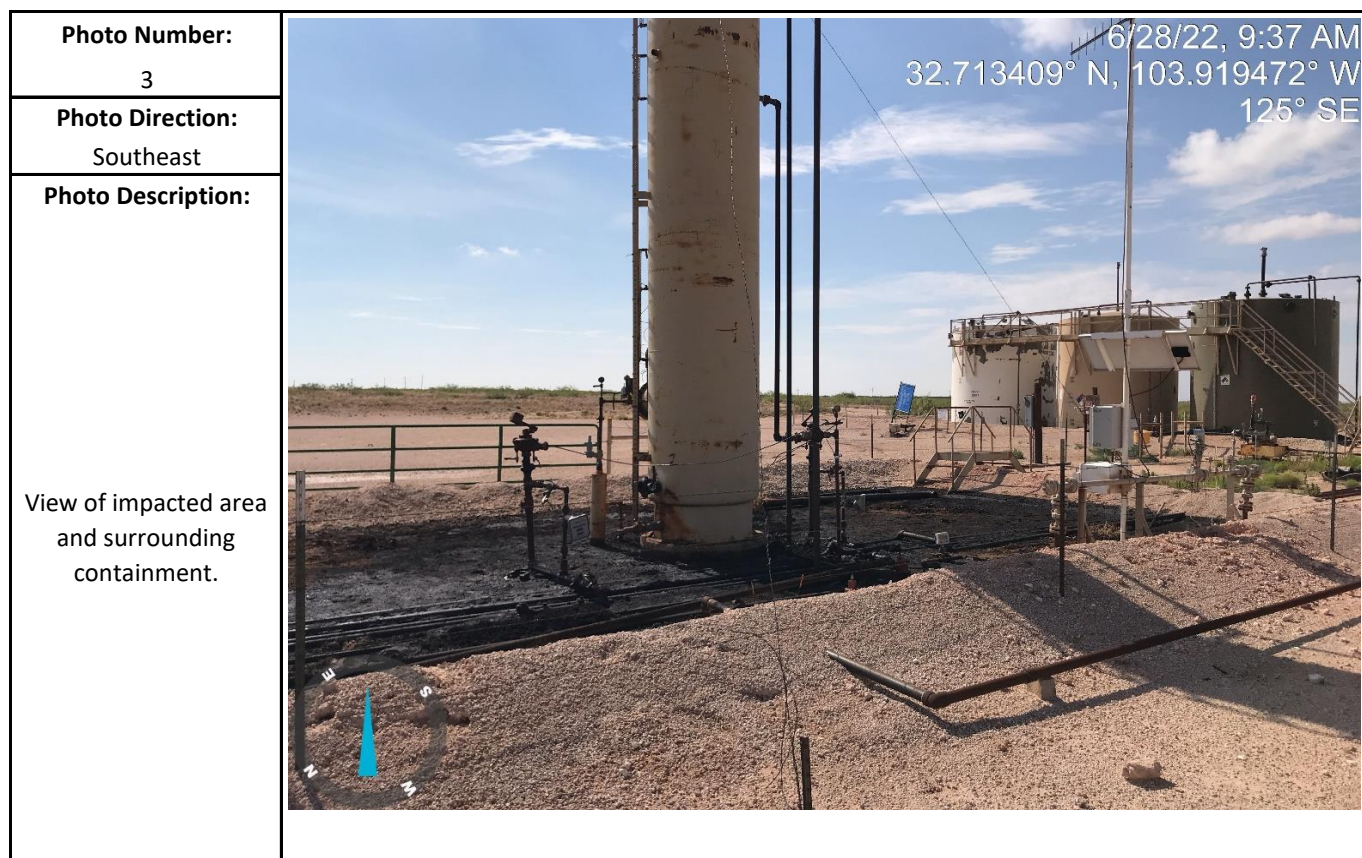
Appendix C

Photographic Documentation

Photographic Log



Photographic Log



Appendix D

Laboratory Analytical



Environment Testing America

ANALYTICAL REPORT

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

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

For:

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

Attn: Brandon Wilson

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

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

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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www.eurofinsus.com/Env

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

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

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

Laboratory Job ID: 880-16439-1

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Definitions/Glossary

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

Job ID: 880-16439-1

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

Eurofins Midland

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
Project/Site: BSWU #3 CTB

Job ID: 880-16439-1

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
Project/Site: BSWU #3 CTB

Job ID: 880-16439-1

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
Oil 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

Eurofins Midland

Client Sample Results

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

Job ID: 880-16439-1

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

Eurofins Midland

Client Sample Results

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

Job ID: 880-16439-1

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: 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

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Client Sample Results

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

Job ID: 880-16439-1

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

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

Date Collected: 06/28/22 10:12

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	<0.00200	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

Eurofins Midland

Client Sample Results

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

Job ID: 880-16439-1

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

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
Oil 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

Date Collected: 06/28/22 10:14

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	<0.399	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

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Client Sample Results

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

Job ID: 880-16439-1

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
OII 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
OII 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
Project/Site: BSWU #3 CTB

Job ID: 880-16439-1

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: 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

Date Collected: 06/28/22 10:18

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	<0.0994	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
OII 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

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Surrogate Summary

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

Job ID: 880-16439-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (70-130)	DFBZ1 (70-130)				
880-16439-1	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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		1CO1 (70-130)	OTPH1 (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				

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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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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
Project/Site: BSWU #3 CTB

Job ID: 880-16439-1

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

Eurofins Midland

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: 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

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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

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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: 890-2497-A-18-B MSD

Matrix: Solid

Analysis Batch: 29109

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 29048

	MSD	MSD	
Surrogate	%Recovery	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

	MB	MB								
Analyte	Result	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	
	MB	MB								
Surrogate	%Recovery	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

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%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			
	LCS	LCS								
Surrogate	%Recovery	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

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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	
	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	109		70 - 130							

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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: 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

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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: 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

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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: 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
Oil 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

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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

	LCS	LCS	
Surrogate	%Recovery	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

	LCSD	LCSD	
Surrogate	%Recovery	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

	MS	MS	
Surrogate	%Recovery	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

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	109		70 - 130

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QC Sample Results

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

Job ID: 880-16439-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-28870/1-A

Matrix: Solid

Analysis Batch: 29129

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			07/07/22 05:25	1

Lab Sample ID: LCS 880-28870/2-A

Matrix: Solid

Analysis Batch: 29129

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Matrix: Solid

Analysis Batch: 29129

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	238.6		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-16437-A-14-B MS

Matrix: Solid

Analysis Batch: 29129

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	353		248	594.0		mg/Kg		97	90 - 110

Lab Sample ID: 880-16437-A-14-C MSD

Matrix: Solid

Analysis Batch: 29129

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	353		248	593.7		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-28872/1-A

Matrix: Solid

Analysis Batch: 29132

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			07/07/22 01:53	1

Lab Sample ID: LCS 880-28872/2-A

Matrix: Solid

Analysis Batch: 29132

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Matrix: Solid

Analysis Batch: 29132

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	241.6		mg/Kg		97	90 - 110	1	20

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QC Sample Results

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

Job ID: 880-16439-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-16439-6 MS

Client Sample ID: Bottom Hole 2

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 29132

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

Client Sample ID: Bottom Hole 2

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 29132

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

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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	

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QC Association Summary

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

Job ID: 880-16439-1

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	

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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

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Lab Chronicle

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

Job ID: 880-16439-1

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

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Lab Chronicle

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

Job ID: 880-16439-1

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

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

Eurofins Midland

Lab Chronicle

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

Job ID: 880-16439-1

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

Eurofins Midland

Lab Chronicle

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

Job ID: 880-16439-1

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

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

Accreditation/Certification Summary

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

Job ID: 880-16439-1

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	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

1
2
3
4
5
6
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12
13
14

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

Eurofins Midland

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

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio TX (210) 509-3334

Midland TX (432)704-5440 EL Paso TX (915)585-3443 Lubbock TX (806)794-1296

Hobbs NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta GA (770-449-8800) Tampa FL (813-620-2000)

Work Order No: 16439

www.xenco.com Page 1 of 1

7/11/2022


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

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

[illegible]

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	
<i>Circle Method(s) and Metal(s) to be analyzed</i>		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							

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		6/21/22	2		
3			4		
5		1:35	6		

Revised Date 051418 Rev 2018 1

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Released to Imaging: 11/21/2022 10:02:00 AM

Received by OCD: 7/27/2022 11:08:23 AM

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 880-16439-1

Login Number: 16439

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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

Incident ID	nAPP2216550022
District RP	
Facility ID	
Application ID	

Remediation Plan

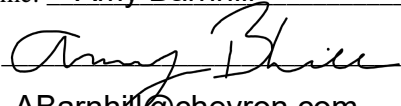
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ 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:  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:  Date: 11/21/2022

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 129083

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 ft ² . The work will need to occur in 90 days after the work plan has been approved.	11/21/2022