	Page 1 of 63
Incident ID	nAPP2102530060
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?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes 🗸 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🗸 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🗸 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🗸 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🗸 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🗸 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🗸 No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ✓ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🗹 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes 🗹 No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🗸 No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes 🗸 No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well ✓ 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 	ls.
Boring or excavation logs	

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.

✓ Photographs including date and GIS information

✓ Laboratory data including chain of custody

Topographic/Aerial maps

Received by OCD: 6/22/2021 8:38:10 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 2 of 6	63
Incident ID	nAPP2102530060	
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: Jacqui Harris	Title: Environmental Coordinator					
Signature:_ Jacqui Thoris	Date: 6/22/2021					
email: jacqui.harris@conocophillips.com	Telephone: <u>(575)745-1807</u>					
OCD Only						
Received by:	Date:					

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

	Page 3 of 6	3
Incident ID	nAPP2102530060	
District RP		
Facility ID		
Application ID		

Remediation 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 19.15.29.1 ✓ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con-	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility
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 complet rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptar liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local laterals.	ertain release notifications and perform corrective actions for releases are of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Jacqui Harris	Title: Environmental Coordinator
Signature: Jacqui Thorus	Date: 6/22/2021
email: jacqui.harris@conocophillips.com	Telephone: <u>(575)745-1807</u>
agn a l	
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of A	Approval
Signature:	Date:

Site Assessment Report, Proposed Remediation Plan & Deferral Request

COG Operating, LLC Save DA Federal 1 Tank Battery

Eddy County, New Mexico
Unit Letter "D", Section 21, Township 25 South, Range 29 East
Latitude 32.12085 North, Longitude 103.99555 West
NMOCD Reference No. nAPP2102530060

Prepared By:

Etech Environmental & Safety Solutions, Inc.

3100 Plains Highway Lovington, New Mexico 88260

Joel W. Lowry



Midland • San Antonio • Lubbock • Lovington • Lafayette

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APPENDICES

Appendix A - Depth to Groundwater Information

Appendix B - Field Data & Soil Profile Logs

Appendix C - Laboratory Analytical Reports

Appendix D - Photographic Log

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC, has prepared this *Site Assessment Report, Proposed Remediation Plan & Deferral Request* for the release site known as the Save DA Federal 1 Tank Battery (henceforth, "Site"). Details of the release are summarized below:

atitude:		32.12	085	Longitude: -103.99555				
			Provide	ed GPS are in WGS84 for				
Site Name:	Save 1	DA Feder	al 1 Tank Battery	Site Type:		Tank Battery		
Date Release Di	scovere	d:	1/6/2021	API # (if appl	(if applicable): 30-015-34840			
Unit Letter	Sec	tion	Township	Range	Count	у		
"D"	2	1	25S	29E	Eddy	7		
urface Owner:	Sta	te XF		Private (Na				
X Crude Oil		Volume	Released (bbls)	1	Volume	Recovered (bbls) 0		
X Produced V	Vater	Volume	Released (bbls)	10	Volume	Recovered (bbls) 8		
			ncentration of disso d water > 10,000 mg		e XY	es No N/A		
Condensate	÷	Volume	Released (bbls)		Volume	Recovered (bbls)		
Natural Ga	S	Volume	Released (Mcf)		Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released Volume/Weight Recovered								
	erflow		equipment failure.	The release was co	onfined to the	containment area. A vacuum truck		
			In	nitial Response				
X The source	of the re	elease has	been stopped.					
X The impact	ed area	has been s	secured to protect hu	man health and the	environment.			
						l, or other containment devices		

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	1	25'
Did the release impact groundwater or surface water?	Yes	X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes	X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	Yes	X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes	X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes	X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes	X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes	X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes	X No
Are the lateral extents of the release overlying a subsurface mine?	Yes	X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes	X No
Are the lateral extents of the release within a 100-year floodplain?	Yes	X No
Did the release impact areas not on an exploration, development, production or storage site?	Yes	X No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the proposed NMOCD Closure Criteria and NMOCD Reclamation Standards for the Site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	600	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	100
125'	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	-	-
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

^{*} Measured in milligrams per kilogram (mg/kg)

[†] Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

[‡] The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

4.0 INITIAL SITE ASSESSMENT

On June 3, 2021, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data, a total of 14 delineation soil samples (NHS @ 0-6", NHS @ 1', EHS @ 0-6", EHS @ 1', SHS @ 0-6", SHS @ 1', SHS @ 0-6", SP 1 @ 0-6", SP 1 @ 1', SP 2 @ 0-6", SP 2 @ 1', SP 3 @ 0-6", and SP 3 @ 1') were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal extent of impacted soil was adequately defined. However, additional vertical delineation was required in the areas characterized by sample points SP 1, SP 2, and SP 3.

On June 8, 2021, Etech revisited the Site. During the site visit, a series of test trenches were advanced in the areas characterized by sample points SP 1, SP 2, and SP 3 to further investigate the vertical extent of impacted soil. During the advancement of the test trenches, three (3) soil samples (SP 1 @ 2', SP 2 @ 2', and SP 3 @ 2') were collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the vertical extent of impacted soil was adequately defined, and soil was not affected above the proposed NMOCD Closure Criteria beyond two (2) feet below ground surface (bgs) in the areas characterized by sample points SP 1, SP 2, and SP 3.

The locations of the hand-augered soil bores and test trenches are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data and soil profile logs are provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the Site are provided in Appendix D.

5.0 PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, COG Operating, LLC, proposes the following remediation activities designed to advance the Site toward an approved closure:

- Utilizing mechanical equipment and/or hand tools, excavate impacted soil affected above the NMOCD Closure Criteria in the areas characterized by sample points SP 1, SP 2, and SP 3 to an estimated depth of two (2) feet bgs.
- The sidewalls and floor of the excavated area will be advanced until laboratory analytical results indicate BTEX, TPH, and chloride concentrations are below the NMOCD Closure Criteria, or to the maximum extent practicable.
- Impacted soil affected above the NMOCD Closure Criteria remaining in-situ adjacent to the above ground storage tanks and associated equipment will be remediated upon abandoning and decommissioning the facility.
- Excavated soil will be transported to an NMOCD-permitted surface waste facility for disposal.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, the excavated area will be backfilled with locally sourced, non-impacted, "like" material.
- Upon completion of remediation activities, a *Remediation Summary & Deferral Request* will be prepared, detailing field activities, laboratory analytical results from confirmation soil samples, and a determination of the volume of impacted soil to remain in-situ.

6.0 SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than 50 linear feet. A minimum of one (1) representative five-point composite confirmation sample will be collected from the base of the excavated area representing every 200 square feet. Additional, discrete samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

7.0 TIMELINE & ESTIMATED VOLUME OF SOIL TO BE REMEDIATED

Remediation activities are expected to be completed within 90 days of receiving necessary approval(s) of the *Site Assessment Report, Proposed Remediation Plan & Deferral Request*. Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, it is estimated that approximately 85 cubic yards of impacted soil is in need of removal.

8.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

The release was confined to the containment area of an active tank battery facility on a production pad. Upon receiving laboratory analytical results from confirmation soil samples, excavated areas will be backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions and compacted/contoured to fit the needs of the facility. Final reclamation and re-vegetation will be conducted upon decommission and abandonment of the facility.

9.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Site Assessment Report, Proposed Remediation Plan & Deferral Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of COG Operating, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or COG Operating, LLC.

10.0 DISTRIBUTION

COG Operating, LLC 600 West Illinois Avenue Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210

(Electronic Submission)

Figure 1 Topographic Map

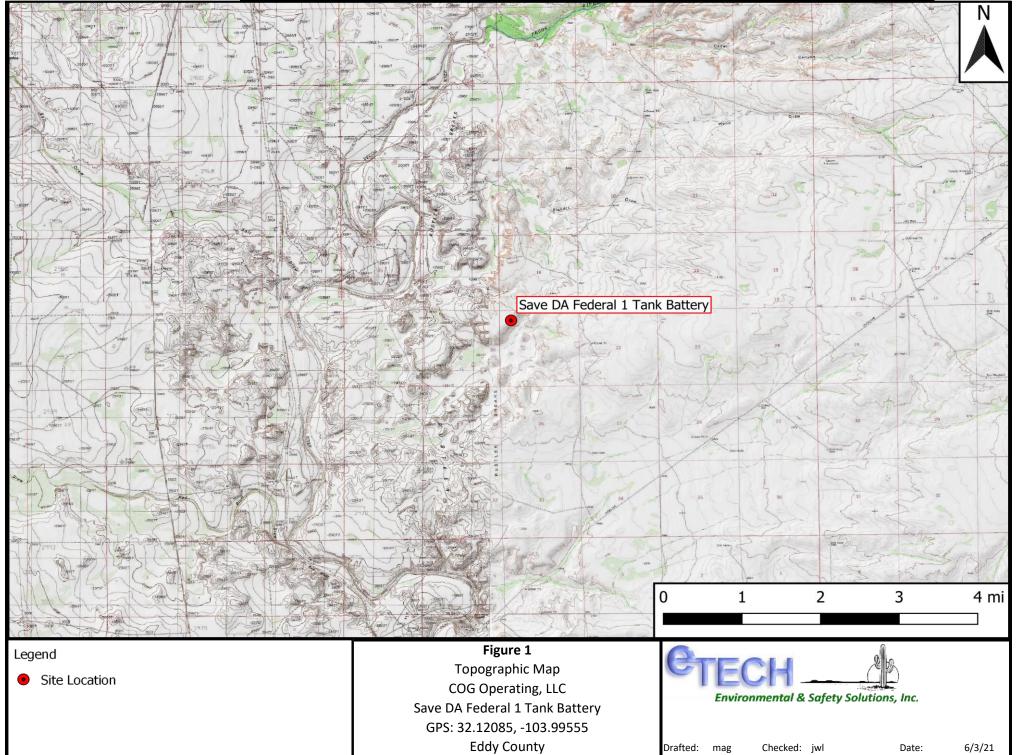


Figure 2 Aerial Proximity Map

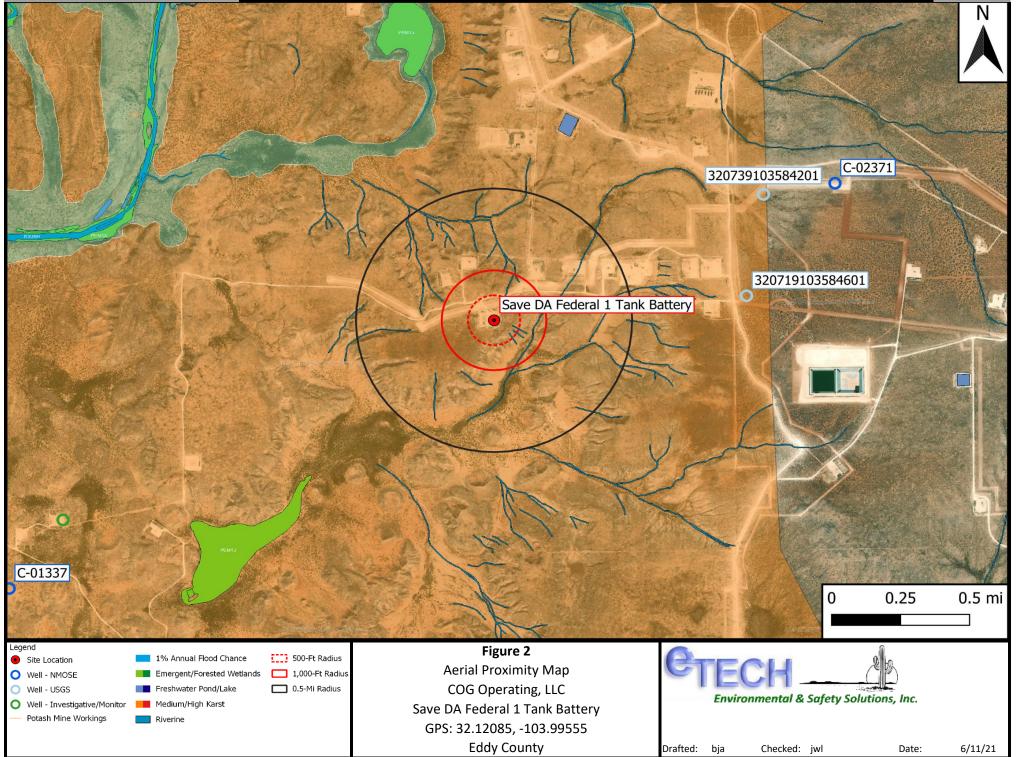


Figure 3 Site & Sample Location Map



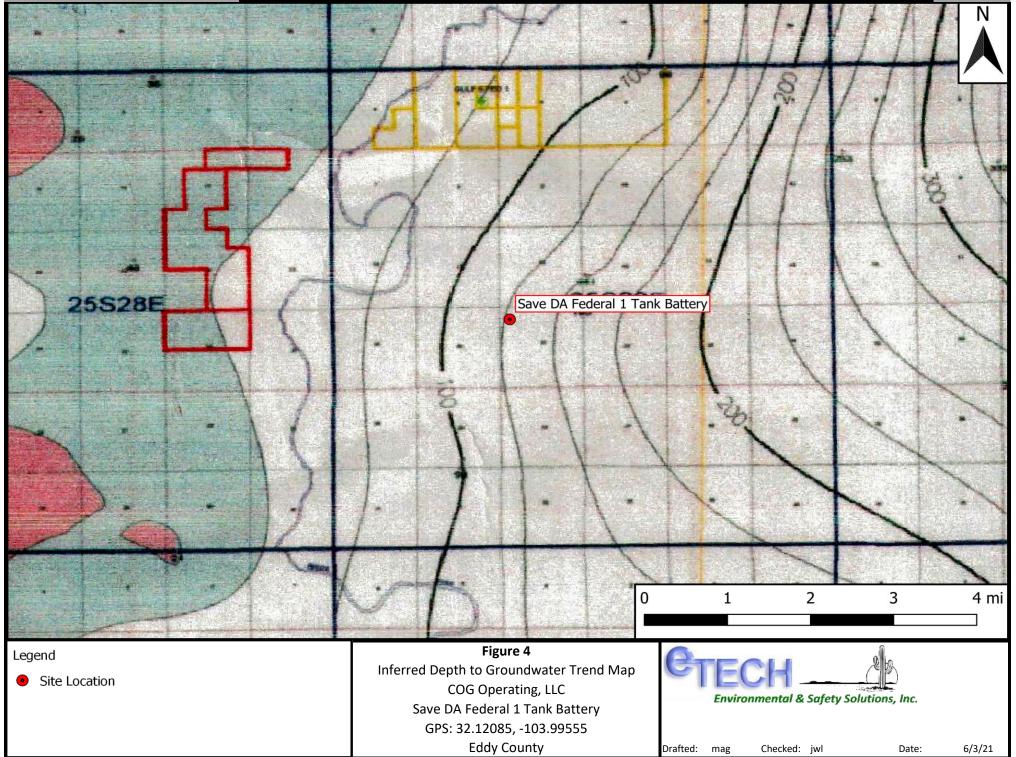
Table 1 Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH & Chloride in Soil
COG Operating, LLC
Save DA Federal 1 Tank Rattery

NMOCD Ref. #: NAPP2102530060

NMOCD Ref. #: NAPP2102530060											
NMOCD Closure Criteria				10	50	-	-	-	-	100	600
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
				SW 840	6 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	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)
NHS @ 0-6"	6/3/2021	0 - 0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	< 30.0	304
NHS @ 1'	6/3/2021	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EHS @ 0-6"	6/3/2021	0 - 0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
EHS @ 1'	6/3/2021	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SHS @ 0-6"	6/3/2021	0 - 0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
SHS @ 1'	6/3/2021	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
WHS @ 0-6"	6/3/2021	0 - 0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
WHS @ 1'	6/3/2021	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SP 1 @ 0-6"	6/3/2021	0 - 0.5	In-Situ	< 0.050	< 0.300	24.3	3,040	3,060	514	3,580	8,800
SP 1 @ 1'	6/3/2021	1	In-Situ	< 0.050	< 0.300	<10.0	217	217	42.2	259	1,800
SP 1 @ 2'	6/8/2021	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
SP 2 @ 0-6"	6/3/2021	0 - 0.5	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,600
SP 2 @ 1'	6/3/2021	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,680
SP 2 @ 2'	6/8/2021	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SP 3 @ 0-6"	6/3/2021	0 - 0.5	In-Situ	< 0.050	< 0.300	<10.0	186	186	13.0	199	4,400
SP 3 @ 1'	6/3/2021	1	In-Situ	< 0.050	< 0.300	<10.0	11.2	11.2	<10.0	11.2	1,140
SP 3 @ 2'	6/8/2021	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320

Appendix A Depth to Groundwater Information



Received by OCD: 6/22/2021 8:38:10 AM New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

			POD													
			Sub-		Q	Q	Q								V	Vater
PC	DD Number	Code	basin	County	64	16	4 \$	Sec	Tws	Rng	X	Y	DistanceDep	thWellDep	othWater Co	olumn
<u>C</u>	04503 POD1		CUB	ED	4	3	3	09	25S	29E	594884	3556142	1874			
<u>C</u>	02371		C	ED		2	3	15	25S	29E	596741	3555106*	2155	200	60	140
<u>C</u>	02680		CUB	ED		2	3	15	25S	29E	596741	3555106*	2155	200		
<u>C</u>	02518		C	ED		3	4	08	25S	29E	593895	3556300*	2201	462		

Average Depth to Water:

60 feet

Minimum Depth:

60 feet

Maximum Depth: 60 feet

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 594753.14 **Northing (Y):** 3554272.77 **Radius:** 3220

*UTM location was derived from PLSS - see Help

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

6/3/21 8:48 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Released to Imaging: 9/21/2021 2:51:27 PM

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

X

C 02371

25S 29E 15

596741 3555106*

Driller License: 1259 **Driller Company:**

CAMPBELL DRILLING

Driller Name:

CAMPBELL, MICHAEL R.

Drill Start Date:

01/12/1995

Drill Finish Date:

01/24/1995

Plug Date:

Shallow

Log File Date:

02/01/1995

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Sandstone/Gravel/Conglomerate

20 GPM

Casing Size:

7.00

Depth Well:

200 feet

Depth Water:

60 feet

Water Bearing Stratifications:

162

Top Bottom Description

Casing Perforations:

Bottom Top

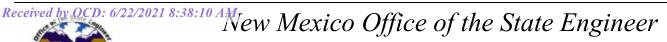
140 200

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6/3/21 8:49 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X

C 02518

25S 29E 08

593895 3556300*

Driller License: 421 **Driller Company:**

GLENN'S WATER WELL SERVICE

Driller Name:

GLENN, CLARK A."CORKY" (LD)

06/02/1997

Drill Start Date: Log File Date:

06/02/1997 06/10/1997

Plug Date:

PCW Rcv Date:

Drill Finish Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

462 feet

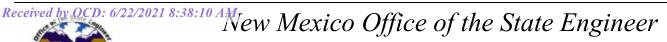
Depth Water:

*UTM location was derived from PLSS - see Help

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

6/3/21 8:49 AM

POINT OF DIVERSION SUMMARY



Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

596741

Well Tag POD Number

 umber
 Q64 Q16 Q4 Sec Tws Rng

 80
 2
 3
 15
 25S
 29E

X Y

3555106*

C 02680 2 3

Driller License:
Driller Name:

Drill Start Date:Drill Finish Date:04/30/1964Plug Date:Log File Date:PCW Rcv Date:Source:

Pump Type: Pipe Discharge Size: Estimated Yield:
Casing Size: 6.00 Depth Well: 200 feet Depth Water:

Driller Company:

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, or suitability for any particular purpose of the data.

6/3/21 8:49 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help

Received by OCD: 6/22/2021 8:38:10 AM New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16

C 04503 POD1

Q64 Q16 Q4 Sec Tws Rng 4 3 3 09 25S 29E

X

594884 3556142

Driller License: 1249 **Driller Company:** ATKINS ENGINEERING ASSOC. INC.

Driller Name: ATKINS, JACKIE D.UELENER

Drill Start Date: 04/19/2021 **Drill Finish Date:** 04/19/2021 **Plug Date:**

Log File Date: 05/05/2021 PCW Rcv Date: Source:

Pump Type: Pipe Discharge Size: Estimated Yield: Casing Size: Depth Well: Depth Water:

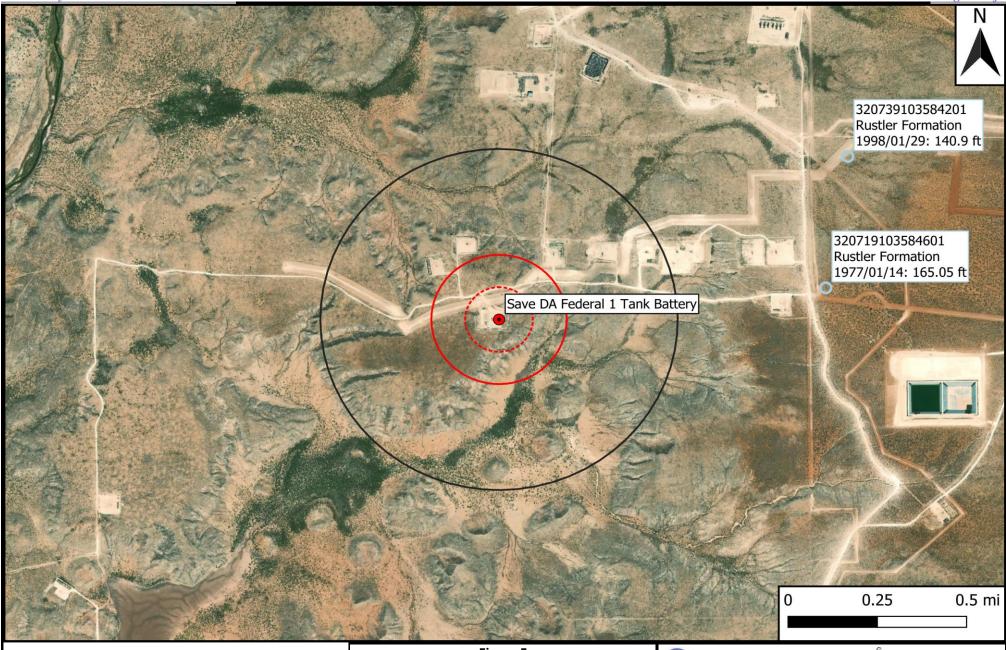
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

6/3/21 8:49 AM

NA

POINT OF DIVERSION SUMMARY

04/27/2021



Legend

Site Location

Well - USGS

500 Ft Radius

☐ 1000 Ft Radius ☐ 0.5 Mi Radius

Figure 5

USGS Well Proximity Map COG Operating, LLC Save DA Federal 1 Tank Battery GPS: 32.12085, -103.99555 Eddy County





Environmental & Safety Solutions, Inc.

Drafted: mag

Checked: jwl

Date:

6/3/21



National Water Information System: Web Interface

USGS Water Resources

USGS Home Contact USGS Search USGS

Data Category: Geographic Area:

Groundwater ✓ United States ✓ GO

Click forNews Bulletins

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs site no list =

• 320719103584601

Minimum number of levels = 1

Table of data

Save file of selected sites to local disk for future upload

USGS 320719103584601 25S.29E.16.44444

Eddy County, New Mexico
Latitude 32°07'19", Longitude 103°58'46" NAD27
Land-surface elevation 3,042 feet above NAVD88
The depth of the well is 200 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

D

72019

165.05

Output formats

<u>rab-separated t</u>	<u>lata</u>										
Graph of data											
Reselect period											
Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1958-08-1	9	D	72019	170.14			1	1 2	7		А
1958-10-2	3	D	72019	170.80			1	1 2	7		Α
1975-12-0	9	D	72019	164.95			1	L S	5		Α
1976-01-1	6	D	72019	167.12			1	L S	5		Α

1

1977-01-14

Explanation

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

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

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U.S. Department of the Interior | U.S. Geological Survey

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

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2021-06-11 13:18:19 EDT

0.32 0.26 nadww02





National Water Information System: Web Interface

USGS Water Resources

USGS Home Contact USGS Search USGS

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

Click forNews Bulletins

Groundwater levels for the Nation

* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs site no list =

• 320739103584201

Minimum number of levels = 1

Table of data

Save file of selected sites to local disk for future upload

USGS 320739103584201 25S.29E.15.31134

Eddy County, New Mexico
Latitude 32°07'39", Longitude 103°58'42" NAD27
Land-surface elevation 3,017 feet above NAVD88
The depth of the well is 192 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

ab-separated data													
Graph of data													
Reselect period													
Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status		
1983-02-0	1	D	72019	140.40				1	Z		Α		
1987-10-2	0	D	72019	140.33				1	7		А		
1992-11-0	6	D	72019	140.81				1	5		Α		
1998-01-2	9	D	72019	140.90				1	5		А		

Explanation

Code	Description
D	Date is accurate to the Day
62610	Groundwater level above NGVD 1929, feet
62611	Groundwater level above NAVD 1988, feet
72019	Depth to water level, feet below land surface
NAVD88	North American Vertical Datum of 1988
NGVD29	National Geodetic Vertical Datum of 1929
1	Static
S	Steel-tape measurement.
Z	Other.
	Not determined
	Not determined
Α	Approved for publication Processing and review completed.
	D 62610 62611 72019 NAVD88 NGVD29 1 S

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
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Accessibility

FOIA

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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

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

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2021-06-11 13:19:33 EDT

0.43 0.36 nadww01



Appendix B Field Data & Soil Profile Logs



Sample Log

Date:	6/3/21	

Project:

Save DA Federal 1 Tank Battery

Project Number:

14256

Latitude:

32.12085

Longitude:

-103.99555

Sample ID	PID/Odor	Chloride Conc.	GPS
NHS @ 0"-6"	_	328	
NHS @ 1	-	256	
51+5 @ 0"-6"	-	368	
SHS @ 1'	-	196	
EHS @ 0"-6"	_	368	
Elts e 1'	-	224	
WHS @ 0:6"		292	
	-	196	
WHS @ 1' SP1 @ 0"-6"	-	7536	
SPI e l'	_	1470	
SPZ & 0"-6"	_	2472	
SPZ & 0"-6" SP3 & 0"-6"	_	2472	
SP3 @ 0-6"	_	3934	
15P3 e 1		1240	
SP1 @ 2	- /	416	
SP 2 @ 2'	- ,	416 376	
SP3 @ 21	- (416	
			•
		· ·	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

GPS Sample Points, Center of Comp Areas

Stockpile = Stockpile #1



Soil Profile

				Date:	6/7/21
	deral 1 Tank Batte				
roject Number:	14256	Latitude:	32.12085	Longitude:	-103.99555
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Received by OCD: 6/22/2021 8:38:10 AM

Appendix C Laboratory Analytical Reports



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 08, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SAVE DA FEDERAL 1 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/03/21 16:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

06/03/2021

Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received: 06/03/2021 Sampling Date:

Reported: 06/08/2021 Sampling Type: Soil

Project Name: SAVE DA FEDERAL 1 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 14256 Sample Received By: Tamara Oldaker

A ... - L ... - - - I D. .. MC

Project Location: COG - 32.12085-103.99555

Sample ID: NHS @ 0-6" (H211430-01)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35	
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97	
Total BTEX	<0.300	0.300	06/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/08/2021	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	<10.0	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	06/05/2021	ND					
Surrogate: 1-Chlorooctane	67.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	65.6	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/03/2021 Sampling Date: 06/03/2021

Reported: 06/08/2021 Sampling Type: Soil

Project Name: SAVE DA FEDERAL 1 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 14256 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: COG - 32.12085-103.99555

ma/ka

Sample ID: NHS @ 1' (H211430-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35	
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97	
Total BTEX	<0.300	0.300	06/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/08/2021	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	<10.0	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	06/05/2021	ND					
Surrogate: 1-Chlorooctane	68.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	66.0	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/03/2021 Sampling Date: 06/03/2021

Reported: 06/08/2021 Sampling Type: Soil

Project Name: SAVE DA FEDERAL 1 TANK BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 14256 Sample Received By:

Project Location: COG - 32.12085-103.99555

Sample ID: SHS @ 0-6" (H211430-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35	
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97	
Total BTEX	<0.300	0.300	06/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/08/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	<10.0	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	06/05/2021	ND					
Surrogate: 1-Chlorooctane	73.6 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	69.8	% 38.9-14	2						

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/03/2021 Sampling Date: 06/03/2021

Reported: 06/08/2021 Sampling Type: Soil

Project Name: SAVE DA FEDERAL 1 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 14256 Sample Received By: Tamara Oldaker

Project Location: COG - 32.12085-103.99555

Sample ID: SHS @ 1' (H211430-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35	
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97	
Total BTEX	<0.300	0.300	06/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/08/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	<10.0	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	06/05/2021	ND					
Surrogate: 1-Chlorooctane	71.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	68.1	% 38.9-14	12						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received: 06/03/2021 Sampling Date: 06/03/2021

Reported: 06/08/2021 Sampling Type: Soil SAVE DA FEDERAL 1 TANK BATTERY

Project Name: Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 14256

Project Location: COG - 32.12085-103.99555

Sample ID: EHS @ 0-6" (H211430-05)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35	
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97	
Total BTEX	<0.300	0.300	06/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/08/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	<10.0	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	06/05/2021	ND					
Surrogate: 1-Chlorooctane	73.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	69.8	% 38.9-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/03/2021 Sampling Date: 06/03/2021

Reported: 06/08/2021 Sampling Type: Soil

Project Name: SAVE DA FEDERAL 1 TANK BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 14256 Tamara Oldaker

Project Location: COG - 32.12085-103.99555

Sample ID: EHS @ 1' (H211430-06)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35	
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97	
Total BTEX	<0.300	0.300	06/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/08/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	<10.0	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	06/05/2021	ND					
Surrogate: 1-Chlorooctane	74.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	71.5	% 38.9-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/03/2021 Sampling Date: 06/03/2021

Reported: 06/08/2021 Sampling Type: Soil

Project Name: SAVE DA FEDERAL 1 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 14256 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: COG - 32.12085-103.99555

Sample ID: WHS @ 0-6" (H211430-07)

RTFY 8021R

B1EX 8021B	mg/	кg	Апануге	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35	
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97	
Total BTEX	<0.300	0.300	06/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/08/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	<10.0	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	06/05/2021	ND					
Surrogate: 1-Chlorooctane	75.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	70.8	% 38.9-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

mg/kg

Received: 06/03/2021 Sampling Date: 06/03/2021

Reported: 06/08/2021 Sampling Type: Soil

Project Name: SAVE DA FEDERAL 1 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 14256 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: COG - 32.12085-103.99555

Sample ID: WHS @ 1' (H211430-08)

BTEX 8021B

DIEX GOZID	11197	K9	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35	
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97	
Total BTEX	<0.300	0.300	06/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/08/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	<10.0	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	<10.0	10.0	06/05/2021	ND					
Surrogate: 1-Chlorooctane	73.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	68.3	% 38.9-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/03/2021 Sampling Date: 06/03/2021

Reported: 06/08/2021 Sampling Type: Soil

Project Name: SAVE DA FEDERAL 1 TANK BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: 14256 Tamara Oldaker

Project Location: COG - 32.12085-103.99555

Sample ID: SP 1 @ 0-6" (H211430-09)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.99	99.4	2.00	5.35	
Toluene*	<0.050	0.050	06/07/2021	ND	1.96	98.2	2.00	4.94	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.89	94.6	2.00	5.65	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.72	95.3	6.00	4.97	
Total BTEX	<0.300	0.300	06/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	125 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	06/08/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	24.3	10.0	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	3040	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	514	10.0	06/05/2021	ND					
Surrogate: 1-Chlorooctane	90.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	143 9	% 38.9-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/03/2021 Sampling Date: 06/03/2021

Reported: 06/08/2021 Sampling Type: Soil

Project Name: SAVE DA FEDERAL 1 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 14256 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: COG - 32.12085-103.99555

Sample ID: SP 1 @ 1' (H211430-10)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35	
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97	
Total BTEX	<0.300	0.300	06/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	06/08/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2021	ND	222	111	200	1.24	
DRO >C10-C28*	217	10.0	06/05/2021	ND	230	115	200	3.52	
EXT DRO >C28-C36	42.2	10.0	06/05/2021	ND					
Surrogate: 1-Chlorooctane	74.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	81.2	% 38.9-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/03/2021 Sampling Date: 06/03/2021

Reported: 06/08/2021 Sampling Type: Soil

Project Name: SAVE DA FEDERAL 1 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 14256 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: COG - 32.12085-103.99555

Sample ID: SP 2 @ 0-6" (H211430-11)

BTEX 8021B

	9,	9	7	7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35	
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97	
Total BTEX	<0.300	0.300	06/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	06/08/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2021	ND	196	98.2	200	1.10	
DRO >C10-C28*	<10.0	10.0	06/04/2021	ND	203	102	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/04/2021	ND					
Surrogate: 1-Chlorooctane	73.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	70.5	% 38.9-14	22						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/03/2021 Sampling Date: 06/03/2021

Reported: 06/08/2021 Sampling Type: Soil

Project Name: SAVE DA FEDERAL 1 TANK BATTERY Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 14256 Sample Received By:

Project Location: COG - 32.12085-103.99555

Sample ID: SP 2 @ 1' (H211430-12)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35	
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97	
Total BTEX	<0.300	0.300	06/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	06/08/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2021	ND	196	98.2	200	1.10	
DRO >C10-C28*	<10.0	10.0	06/04/2021	ND	203	102	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/04/2021	ND					
Surrogate: 1-Chlorooctane	78.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	76.6	% 38.9-14	2						

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received: 06/03/2021 Sampling Date: 06/03/2021

Reported: 06/08/2021 Sampling Type: Soil

Project Name: SAVE DA FEDERAL 1 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 14256 Sample Received By: Tamara Oldaker

Project Location: COG - 32.12085-103.99555

Sample ID: SP 3 @ 0-6" (H211430-13)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35	
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97	
Total BTEX	<0.300	0.300	06/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	10						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	06/08/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2021	ND	196	98.2	200	1.10	
DRO >C10-C28*	186	10.0	06/04/2021	ND	203	102	200	1.25	
EXT DRO >C28-C36	13.0	10.0	06/04/2021	ND					
Surrogate: 1-Chlorooctane	60.6	% 44.3-13	23						
Surrogate: 1-Chlorooctadecane	66.0	% 38.9-14	12						

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Celey & Keene



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/03/2021 Sampling Date: 06/03/2021

Reported: 06/08/2021 Sampling Type: Soil

Project Name: SAVE DA FEDERAL 1 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 14256 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: COG - 32.12085-103.99555

ma/ka

Sample ID: SP 3 @ 1' (H211430-14)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2021	ND	1.99	99.4	2.00	5.35	
Toluene*	<0.050	0.050	06/04/2021	ND	1.96	98.2	2.00	4.94	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.89	94.6	2.00	5.65	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.72	95.3	6.00	4.97	
Total BTEX	<0.300	0.300	06/04/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	06/08/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2021	ND	196	98.2	200	1.10	
DRO >C10-C28*	11.2	10.0	06/04/2021	ND	203	102	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/04/2021	ND					
Surrogate: 1-Chlorooctane	75.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	74.9	% 38.9-14	2						

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAY (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	: Etech Environmental & Safety Sol	utions	, Inc						31	LL TO		ANALYSIS REQUEST					
Project Manage	r: Joel Lowry			-			P.O.	#:									
Address: P.O	. Box 301						Con	npan	v: (OG							
City: Lovingto	on State: NM	Zip	: 882	260			Attn										
Phone #: (575	5) 396-2378 Fax #: (575)	396-1	429		·			ress									1 1 1
						\neg											
Project Name:	Save DA Federal 1		16	2	11	-	City						3	0			
Project Name.	Save DA terval 1	Lan	K	D	atten	4	Stat		****	Zip:		Chloride	(8015M)	BTEX (8021B)	1 1		
Project Location	1: 12.12085,-103.99555						-	ne #	:	- A-		흔	8	8			
	heard Unica						Fax	-				ठ	IPH.	<u> </u>			
FOR LAB USE ONLY	3				MATE	EX.	- 1	PRES	ERV.	SAMPLIN	IG		-	00			
Lab I.D. <u>H21143</u> 0	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER	SLUDGE	OTHER:	ACID/BASE	OTHER:	DATE	TIME						
	NHS @ 0"6"	G	E		×			0	<	6/3/21		K	K	K			
	NHS @ 1'	G	U		ol				k	6/3/21		a	K	R			
3	SHS @ 0"-6"	G			o(M	1	6/3/21		K	K	A			
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5	EHS @ 0"-6"	G			ac			0	7	6/3/21		OC	a	Dr			
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Delivered By: (Circle One)		Sample Condi	tion CHECKED BY:	

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hone Result:	☐ Yes	□ No	Add'l Phone #:
ax Result:	☐ Yes	□ No	Add'l Fax #:

ax Result: EMARKS:

Please email results to pm@etechenv.com.

FORM-006 Revision 1.0

Sampler - UPS - Bus - Other:

(initials)

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	ompany Name: Etech Environmental & Safety Solutions, Inc. oject Manager: Soel Lowry									3//	L 10						ANA	LYS	IS R	EQUE	ST					
Project Manage	r: Joel	h	Diw	y						P	.0. 1	:											T			
Address: P.O	. Box 301			(C	omp	any	: (COG		1										
City: Lovingto	on			State: NM	Zip	: 88	260		,		ttn:					1										
Phone #: (57	5) 396-237	78		Fax #: (575) 3	96-1	429				A	ddre	SS:							1							
Project #: 14	756			Project Owne	r:	0	00	7		C	ity:										1					
Project Name:			FOA			R	att	ONI			tate:			Zip:		1.	E	(8021B)								
Project Location	n: 22	200	1 40	103 0953	~		W/V	7			hone					Chloride	TPH (8015M)	807	1							
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FOR LAB USE ONLY	VEDIN		VV ₀	Just				MA	TRIX	-1	-	ESE	RV.	SAMPL	ING	10	1	BTEX				1				
Lab I.D.		Sam	ple l	I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE OTHER:	ACID/BASE:	CENCOOL	OTHER:	DATE	TIME											
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FORM-006 Revision 1.0

Received by OCD: 6/22/2021 8:38:10 AM

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Page 18 of 18



June 09, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SAVE DA FEDERAL 1 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/08/21 14:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY P.O. Box 301

Lovington NM, 88260 Fax To: (575) 396-1429

Received: 06/08/2021 Sampling Date: 06/08/2021

Reported: 06/09/2021 Sampling Type: Soil

Project Name: SAVE DA FEDERAL 1 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 14256 Sample Received By: Jodi Henson

Project Location: COG - 32.12085-103.99555

Sample ID: SP 1 @ 2' (H211476-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.97	98.6	2.00	0.640	
Toluene*	<0.050	0.050	06/08/2021	ND	2.09	105	2.00	0.110	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	2.06	103	2.00	0.250	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	6.20	103	6.00	0.637	
Total BTEX	<0.300	0.300	06/08/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	06/09/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/09/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/09/2021	ND					
Surrogate: 1-Chlorooctane	108	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	103	% 38.9-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/08/2021 Sampling Date: 06/08/2021

Reported: 06/09/2021 Sampling Type: Soil

Project Name: SAVE DA FEDERAL 1 TANK BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: 14256 Jodi Henson

Project Location: COG - 32.12085-103.99555

Sample ID: SP 2 @ 2' (H211476-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.97	98.6	2.00	0.640	
Toluene*	<0.050	0.050	06/08/2021	ND	2.09	105	2.00	0.110	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	2.06	103	2.00	0.250	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	6.20	103	6.00	0.637	
Total BTEX	<0.300	0.300	06/08/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/09/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					
Surrogate: 1-Chlorooctane	84.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	83.3	% 38.9-14	2						

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
D.O. Roy 201

P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 06/08/2021 Sampling Date: 06/08/2021

Reported: 06/09/2021 Sampling Type: Soil

Project Name: SAVE DA FEDERAL 1 TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 14256 Sample Received By: Jodi Henson

Applyzod By: MC

Project Location: COG - 32.12085-103.99555

ma/ka

Sample ID: SP 3 @ 2' (H211476-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.97	98.6	2.00	0.640	
Toluene*	<0.050	0.050	06/08/2021	ND	2.09	105	2.00	0.110	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	2.06	103	2.00	0.250	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	6.20	103	6.00	0.637	
Total BTEX	<0.300	0.300	06/08/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	06/09/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2021	ND	190	95.1	200	0.599	
DRO >C10-C28*	<10.0	10.0	06/09/2021	ND	193	96.3	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	06/09/2021	ND					
Surrogate: 1-Chlorooctane	84.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.1	% 38.9-14	2						

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Received by OCD: 6/22/2021 8:38:10 AM

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solution	ns, Inc.	BILL TO	ANALYSIS REQUEST
Project Manager: Toe (Owky		P.O. #:	
Address: P.O. Box 301		Company: COG	
City: Lovington State: NM Z	ip: 88260	Attn:	
Phone #: (575) 396-2378 Fax #: (575) 396	-1429	Address:	
Project #: 14256 Project Owner:	COG	City:	
Project Name: Save DA		State: Zip:	• 12 SM • 12 S
Project Location: —		Phone #:	Chloride TPH (8015M) BTEX (8021B)
Sampler Name: hearel Mourca		Fax #:	EX H
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE: OTHER: OTHER:	
158162'	â l X	X 6/8/21	X X X
12 (1 2 0 2)	51 0	a 6/8/21	999
3 SP 3 e 2'	51 d	1 6/3/21	x & x
hourd Majics 194:39	and welled unless made is willing and installation, business interrupting and final, regardless of whether such claim Received By: Received By: Received By:	is received by Cardinal within 30 days after completion of the loss of use, or loss of profile incurred by client, its substitute is based upon any of the above stated reasons or otherwise. Phone Res Fax Result REMARKS Please et	n applicable los, e. Sult:

FORM-006 Revision 1.0 Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Appendix D Photographic Log

Photographic Log

Photo Number:

1

Photo Direction: South

Photo Description:

View of the affected area.



Photo Number:

2

Photo Direction:

Southeast

Photo Description:

View of the affected area.



Photographic Log

Photo Number:

3
Photo Direction:
North
Photo Description:

View of the affected area.



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

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Incident ID nAPP2102530060
District RP
Facility ID
Application ID

Remediation 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 19.15.29.1 ✓ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con-	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
which may endanger public health or the environment. The acceptar liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local lateristate. Printed Name: Jacqui Harris Signature:	ertain release notifications and perform corrective actions for releases nce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
OCD Only Received by: Robert Hamlet	Date: 9/21/2021
Approved	
Signature: Robert Hamlet	Date: 9/21/2021

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

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 33083

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	33083
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Create	d Condition	Condition
Ву		Date
rhamle	t The Remediation Plan is Conditionally Approved. This release will need to be remediated to the strictest closure criteria of <50' depth to groundwater from Table 1 of the spill rule. Please	9/21/2021
	make sure the edges/sidewalls and floor samples are delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg TPH. All sample points, except the requested sample points for deferral,	1
	must have contaminated soil removed before a deferral request is uploaded to the payment portal. The only remediation that should remain are the sample points that are being requested for	i l
	deferral. Also, specify exactly which sample points you are asking for a deferral on and the reason the contaminants can't be removed.	<u> </u>