ate of New Mexico

Incident ID	nAPP2132141822
District RP	
Facility ID	
Application ID	

Page 1 of 92

Site Assessment/Characterization

This information must be provided to the appropriate district of fice 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 wel ✓ 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 	ls.
▼ Topographic/Aerial maps	

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.

✓ Laboratory data including chain of custody

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	Page 2 of	92
Incident ID	nAPP2132141822	
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the Gailed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Jacqui Harris	Title: Sr. Environmental Engineer
Signature: Jacque Thoris	Date:2/1/22
email: Jacqui.Harris@conocophillips.com	Telephone: (575) 745-1807
OCD Only	
Received by:	Date:

Page 3 of 92

Incident ID	nAPP2132141822
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the for	llowing items must be included in the closure report.
A scaled site and sampling diagram as described in 1	9.15.29.11 NMAC
Photographs of the remediated site prior to backfill of must be notified 2 days prior to liner inspection)	or photos of the liner integrity if applicable (Note: appropriate OCD District office
✓ Laboratory analyses of final sampling (Note: appropr	riate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or f may endanger public health or the environment. The accep should their operations have failed to adequately investigate human health or the environment. In addition, OCD accep compliance with any other federal, state, or local laws and restore, reclaim, and re-vegetate the impacted surface area accordance with 19.15.29.13 NMAC including notification	
email: Jacqui.Harris@conocopnillips.com	Telephone: (575) 745-1807
OCD Only	
Received by:	Date:
	ble party of liability should their operations have failed to adequately investigate and, surface water, human health, or the environment nor does not relieve the responsible aws and/or regulations.
Closure Approved by: Jennifer Nobui Printed Name: Jennifer Nobui	Date: 02/28/2022
Printed Name: Jennifer Nobui	Title: Environmental Specialist A

Remediation Summary & Soil Closure Request

COG Operating, LLC Wild Cap State Com 003H

Eddy County, New Mexico
Unit Letter "J", Section 36, Township 19 South, Range 31 East
Latitude 32.6162 North, Longitude 103.8192 West
NMOCD Reference No. nAPP2132141822

Prepared By:

Etech Environmental & Safety Solutions, Inc.

2507 79th Street, Unit A Lubbock, Texas 79423

Ben J. Arguijo

Joel **X**. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

TABLE OF CONTENTS

	Section
PROJECT INFORMATION	1.0
SITE CHARACTERIZATION	
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE	3.0
INITIAL SITE ASSESSMENT	4 . 0
REMEDIATION ACTIVITIES SUMMARY	5.0
RESTORATION, RECLAMATION & RE-VEGETATION PLAN	
SOIL CLOSURE REQUEST	7 .0
LIMITATIONS	8.0
DISTRIBUTION	9.0

FIGURES

Figure 1 - Topographic Map

Figure 2 - Aerial Proximity Map

Figure 3 - Site & Sample Location Map

TABLES

Table 1 - Concentrations of BTEX, TPH & Chloride in Soil

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 *Remediation Summary & Soil Closure Request* for the release site known as the Wild Cap State Com 003H (henceforth, "Wild Cap 003H"). Details of the release are summarized below:

		L	ocation	of Release S	ource		
Latitude:		32.6162		Longitude	:	-103.8192	
			Provided C	GPS are in WGS84 fo	rmat.		
Site Name: Wild Cap State Com 003H Site Type: Tank Battery							
Date Release Disc	covered:	10/30/202	21	API # (if appl	icable):	30-015-36032	
Unit Letter	Section	n Township	p	Range	County	y	
"J"	36	19S		31E	Eddy		
Surface Owner:	X State		Tribal	Private (N Volume of	Release		
X Crude Oil	V	Volume Released (bb	ols)	461	Volume I	Recovered (bbls) 346	
Produced W	ater V	olume Released (bb	ols)		Volume I	Recovered (bbls)	
Is the concentration of total dissolved solids (TDS) in the produced water $> 10,000 \text{ mg/L}$?						res No X N/A	
Condensate	V	olume Released (bb	ols)		Volume I	Recovered (bbls)	
Natural Gas	V	olume Released (M	cf)		Volume I	Recovered (Mcf)	
Other (describe) Pipeline Liquids Volume/Weight Released Volume/Weight Recovered							
	attributed			•		release was contained within an emove all freestanding fluids.	
			Init	ial Response			
X The source o	of the relea	ase has been stopped.					
X The impacted	d area has	been secured to prot	ect humai	n health and the	environment.		
X Release mate	erials have	e been contained via t	the use of	berms or dikes,	absorbent pad,	or other containment devices	
X All free liqui	ds and red	coverable materials h	ave been	removed and ma	naged appropri	ately.	

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 Wild Cap 003H release 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	30'
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 & 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 NMOCD Closure Criteria and NMOCD Reclamation Standards for the Wild Cap 003H release 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	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
130'	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	N/A
	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 November 15, 2021, Etech conducted an initial site assessment. During the initial site assessment, two (2) hand-augered soil bores (SP1 and SP2) were advanced to the extent practicable within the release margins in an effort to determine the depth of impacted soil. In addition, four (4) hand-augered soil bores (NH, EH, SH, and WH) 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 12 delineation soil samples (NH @ Surface, NH @ 1', EH @ Surface, EH @ 1', SH @ Surface, SH @ 1', WH @ Surface, WH @ 1', SP1 @ Surface, SP1 @ 7' - R, SP2 @ Surface, and SP2 @ 7' - R) were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal and vertical extent of impacted soil was adequately defined, and soil was not affected above the NMOCD Closure Criteria beyond seven (7) feet below ground surface (bgs) in the areas characterized by sample points SP1 and SP2.

The locations of the hand-augered soil bores 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 release site are provided in Appendix D.

5.0 REMEDIATION ACTIVITIES SUMMARY

On December 27, 2021, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD permitted surface waste facility for disposal. Olfactory/visual senses and/or a Hach Quantab ® chloride test kit were utilized to field-screen the vertical and horizontal extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria.

Etech collected five (5) confirmation soil samples (WW1, F 1 @ 8', F 2 @ 6', F 3 @ 5', and F 4 @ 5') from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations exceeded the applicable NMOCD Closure Criteria in soil samples WW1, F 3 @ 5', and F 4 @ 5'. BTEX concentrations ranged from less than the laboratory method detection limit (MDL) in soil samples F 1 @ 8' and F 2 @ 6' to 633 mg/kg in soil sample F 4 @ 5'. TPH concentrations ranged from less than the laboratory MDL in soil samples F 1 @ 8' and F 2 @ 6' to 21,600 mg/kg in soil sample F 4 @ 5'. Chloride concentrations were below the NMOCD Closure Criterion in each of the submitted soil samples and ranged from 16.0 mg/kg in soil sample F 4 @ 5' to 128 mg/kg in soil sample F 1 @ 8'.

On December 28, 2021, Etech collected six (6) confirmation soil samples (NW1, NW2, SW1, F 5 @ 4', F 6 @ 4', and F 7 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations exceeded the applicable NMOCD Closure Criteria in soil samples F 5 @ 4', F 6 @ 4', and F 7 @ 4'. BTEX concentrations ranged from less than the laboratory MDL in soil samples NW1, NW2, and SW1 to 826 mg/kg in soil sample F 6 @ 4'. TPH concentrations ranged from less than the laboratory MDL in soil samples NW1, NW2, and SW1 to 16,480 mg/kg in soil sample F 7 @ 4'. Chloride concentrations were below both the NMOCD Closure Criterion and the laboratory MDL in each of the submitted soil samples, with the exception of soil sample F 5 @ 4', which exhibited a chloride concentration of 32.0 mg/kg.

On December 29, 2021, Etech collected two (2) confirmation soil samples (F 11 @ 6' and F 12 @ 7') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. The chloride concentration in both soil samples was 32.0 mg/kg.

On December 30, 2021, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples WW1 and F 3 @ 5'. Etech collected three (3) confirmation soil samples (WW1 B, F 3 @ 8', and F 8 @ 8') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil samples F 3 @ 8' and F 8 @ 8' to 48.0 mg/kg in soil sample WW1 B.

On January 3, 2022, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples F 4 @ 5', F 5 @ 5', F 6 @ 4', and F 7 @ 4'. Etech collected eight (8) confirmation soil samples (EW, SW2, F 4 @ 8', F 5 @ 8', F 6 @ 8', F 7 @ 8', and F 10 @ 8') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX concentrations were also below the laboratory MDL in each of the submitted soil samples, with the exceptions of samples F 4 @ 8' and F 7 @ 8', which exhibited concentrations of 0.367 mg/kg and 0.365 mg/kg, respectively. TPH concentrations ranged from less than the laboratory MDL in soil samples EW, SW2, F 5 @ 8', and F 10 @ 8' to 1,088 mg/kg in soil sample F 7 @ 8'. Chloride concentrations ranged from 16.0 mg/kg in soil samples EW, SW2, F 4 @ 8', F 5 @ 8', F 7 @ 8', and F 10 @ 8' to 32.0 mg/kg in soil samples F 6 @ 8' and F 9 @ 8'.

The final dimensions of the excavated area were approximately 75 feet in length, 30 feet in width, and six (6) to eight (8) feet in depth. During the course of remediation activities, approximately 520 cubic yards of impacted soil were transported to an NMOCD-permitted surface waste facility for disposal. Approximately 500 cubic yards of locally sourced, non-impacted material were imported to the site for use as backfill.

Soil sample locations and the extent of the excavated area 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 release site are provided in Appendix D.

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

The release was limited to the containment area of an active tank battery facility. Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were 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.

7.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate in-situ concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends COG Operating, LLC, provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Wild Cap 003H release site.

8.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Soil Closure 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.

9.0 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

Hobbs Field Office

New Mexico State Land Office 2827 North Dal Paso Street Suite 117 Hobbs, NM 88240

(Electronic Submission)

Figure 1 Topographic Map

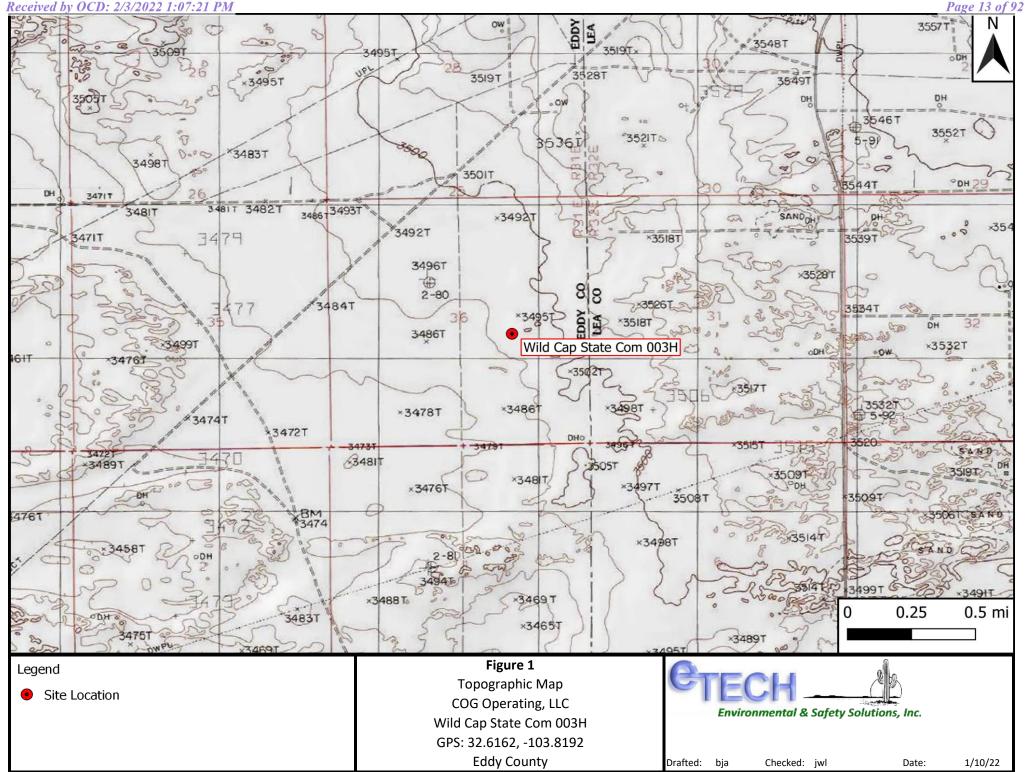


Figure 2 Aerial Proximity Map

Page 15 of 92

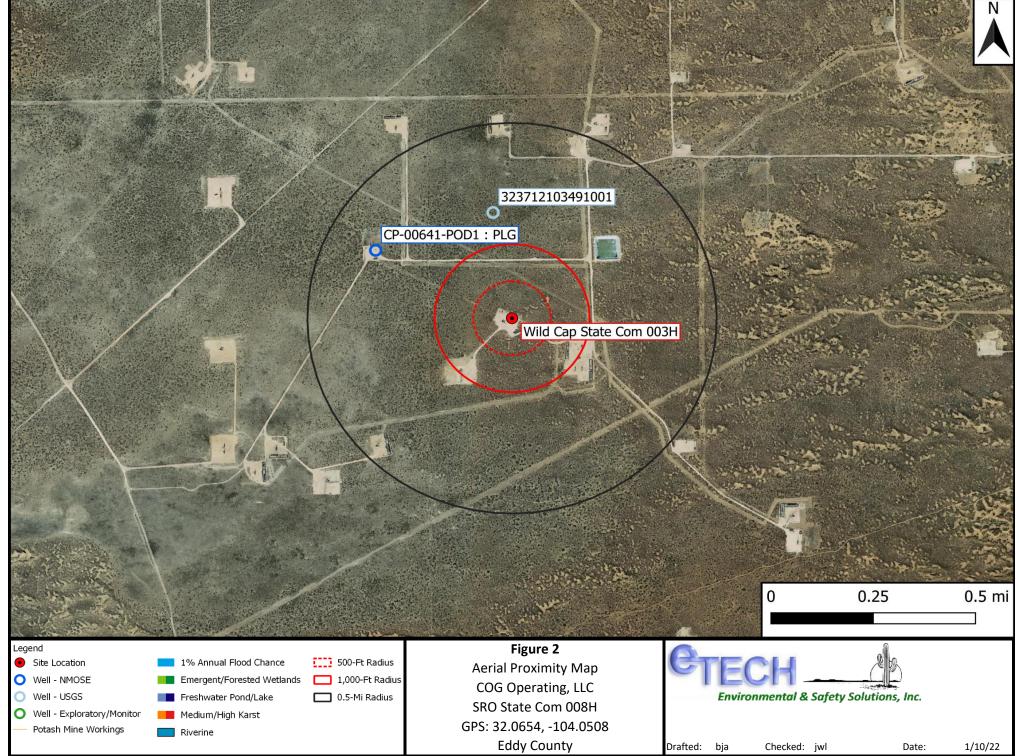


Figure 3 Site & Sample Location Map

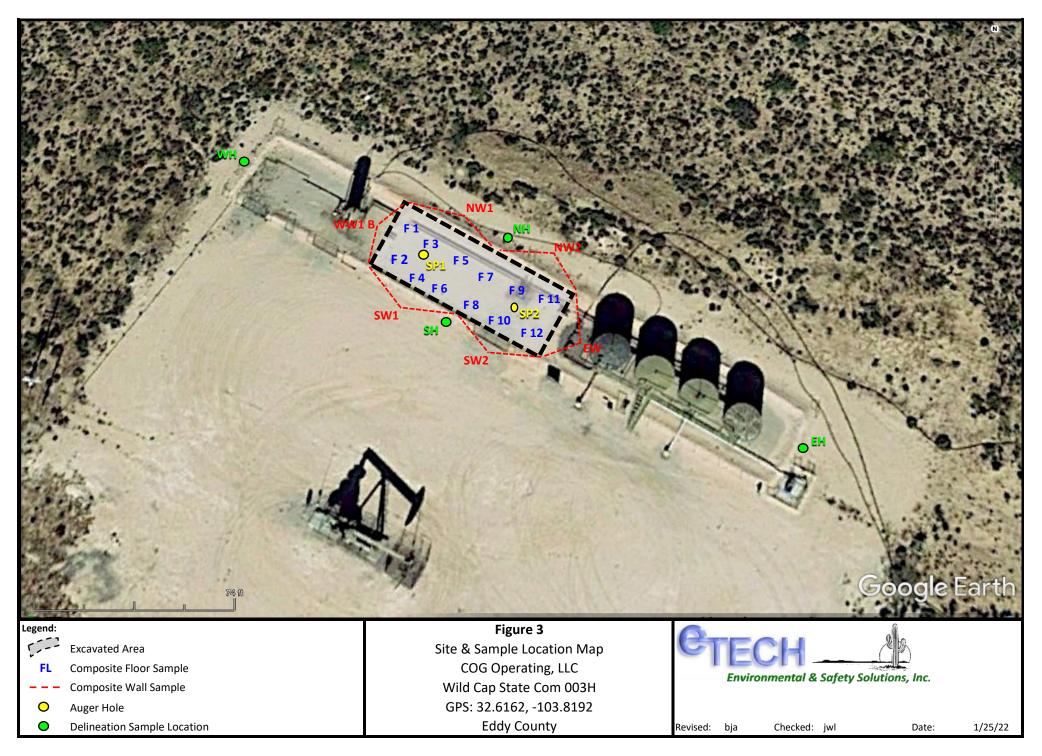
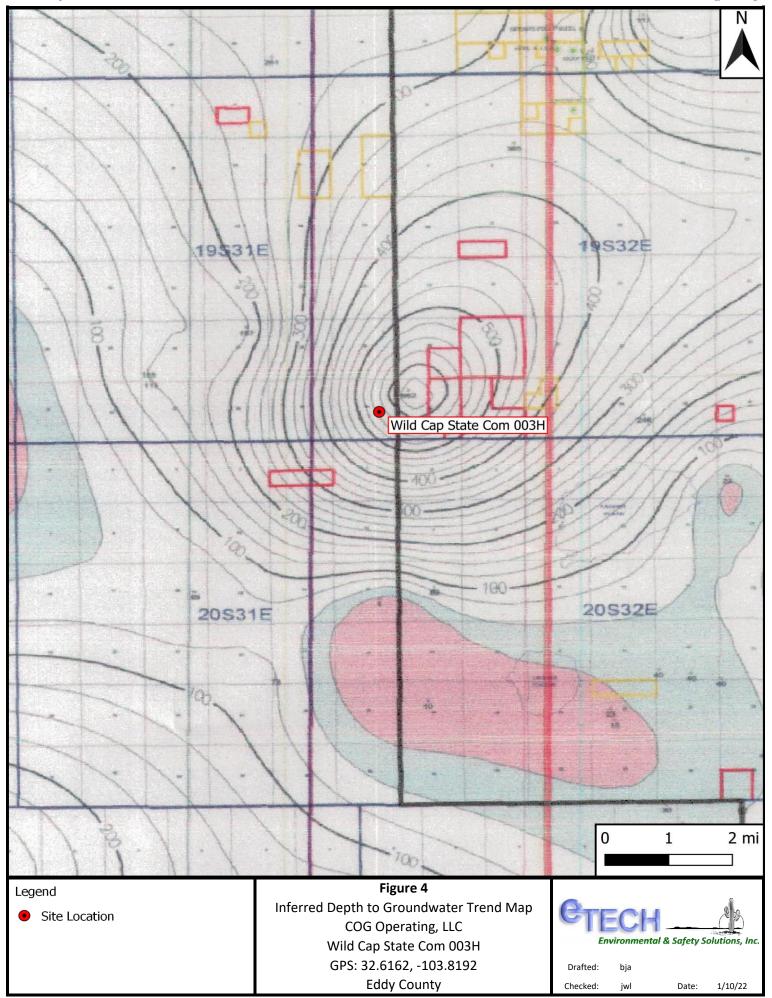


Table 1 Concentrations of BTEX, TPH & Chloride in Soil

Table 1											
	Concentrations of BTEX, TPH & Chloride in Soil COG Operating, LLC										
	Wild Cap State Com 003H										
NMOCD Ref. #: nAPP2132141822											
										20,000	
	Reclamation			10	50	_	_	-	-	100	600
					5 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene	BTEX	GRO	DRO	GRO + DRO	ORO	ТРН	Chloride
		(Feet)	Status	(mg/kg)	(mg/kg)	C ₆ -C ₁₀ (mg/kg)	C_{10} - C_{28} (mg/kg)	C ₆ -C ₂₈	C ₂₈ -C ₃₆ (mg/kg)	C ₆ -C ₃₆ (mg/kg)	(mg/kg)
					Delineation	, , ,	(8 8)	(mg/kg)	(8 8)	(8 8)	
NH @ Surface	11/15/2021	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH @ 1'	11/15/2021	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	11/15/2021	0	In-Situ	< 0.050	< 0.300	<10.0	22.6	22.6	<10.0	22.6	<16.0
EH @ 1'	11/15/2021	1	In-Situ	< 0.050	< 0.300	<10.0	15.5	15.5	<10.0	15.5	<16.0
SH @ Surface	11/15/2021	0	In-Situ	< 0.050	< 0.300	<10.0	32.2	32.2	<10.0	32.2	<16.0
SH @ 1'	11/15/2021	1	In-Situ	< 0.050	< 0.300	<10.0	14.6	14.6	<10.0	14.6	<16.0
WH @ Surface		0	In-Situ	< 0.050	< 0.300	<10.0	15.5	15.5	<10.0	15.5	32.0
WH @ 1'	11/15/2021	1	In-Situ	0.0810	0.461	<10.0	16.1	16.1	<10.0	16.1	32.0
SP1 @ Surface		0	Excavated	40.4	915	9,960	40,000	50,000	6,040	56,000	16.0
\sim	11/15/2021	7	Excavated	< 0.050	< 0.300	<10.0	90.3	90.3	<10.0	90.3	32.0
SP2 @ Surface		0	Excavated	6.03	521	7,540	36,300	43,800	5,970	49,800	48.0
SP2 @ 7' - R	11/15/2021	7	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
51 2 W / K	11/13/2021		III Situ	٧٥.050	Excavation		10.0	\$20.0	10.0	130.0	10.0
NW1	12/28/2021	0-8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW2	12/28/2021	0-8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW	1/3/2022	0-7	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW1	12/28/2021	0-6	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW2	1/3/2022	0-8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW1	12/27/2021	0-8	Excavated	24.7	408	6,880	10,400	17,300	761	18,000	16.0
WW1 B	12/30/2021	0-8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
F 1 @ 8'	12/27/2021	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
F 2 @ 6'	12/27/2021	6	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	12/27/2021	5	Excavated	51.8	585	4,990	9,120	14,100	996	15,100	48.0
F 3 @ 8'	12/30/2021	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
F 4 @ 5'	12/27/2021	5	Excavated	71.0	633	5,700	14,100	19,800	1,800	21,600	16.0
F 4 @ 8'	1/3/2022	8	In-Situ	< 0.050	0.367	24.1	789	813	105	918	16.0
F 5 @ 4'	12/28/2021	4	Excavated	35.2	456	3,870	8,450	12,300	861	13,200	32.0
F 5 @ 8'	1/3/2022	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
F 6 @ 4'	12/28/2021	4	Excavated	126	826	6,550	9,010	15,600	852	16,400	<16.0
F 6 @ 8'	1/3/2022	8	In-Situ	< 0.050	< 0.300	<10.0	29.9	29.9	<10.0	29.9	32.0
F 7 @ 4'	12/28/2021	4	Excavated	102	736	6,070	9,360	15,400	1,050	16,500	<16.0
F 7 @ 8'	1/3/2022	8	In-Situ	< 0.050	0.365	22.5	930	953	135	1,090	16.0
F 8 @ 8'	12/30/2021	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
F 9 @ 8'	1/3/2022	8	In-Situ	< 0.050	< 0.300	<10.0	76.0	76.0	<10.0	76.0	32.0
F 10 @ 8'	1/3/2022	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
F 11 @ 6'	12/29/2021	6	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
F 12 @ 7'	12/29/2021	7	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

Appendix A Depth to Groundwater Information





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

Water DistanceDepthWellDepthWater Column

POD Number CP 00641 POD1
 Code
 basin
 County 64 16 4 Sec
 Tws
 Rng

 CP
 ED
 4 1 36 198 31E

X Y 610247 3609634*

604 300 130

Average Depth to Water:

130 feet

Minimum Depth:

130 feet

Maximum Depth:

130 feet

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 610783.82

Northing (Y): 3609355.51

Radius: 804.67

*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.

1/25/22 3:49 PM

WATER COLUMN/ AVERAGE DEPTH TO

WATER



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

CP 00641 POD1

19S 31E 36

610247 3609634*

Driller License: 882 **Driller Company:**

LARRY'S DRILLING & PUMP CO.

Driller Name: FELKINS, LARRY

02/11/1982

Drill Finish Date:

02/12/1982

300 feet

Plug Date:

Depth Water:

Log File Date:

Drill Start Date:

02/23/1982

PCW Rcv Date:

Source:

Shallow

130 feet

Pump Type: Casing Size: Pipe Discharge Size:

Depth Well:

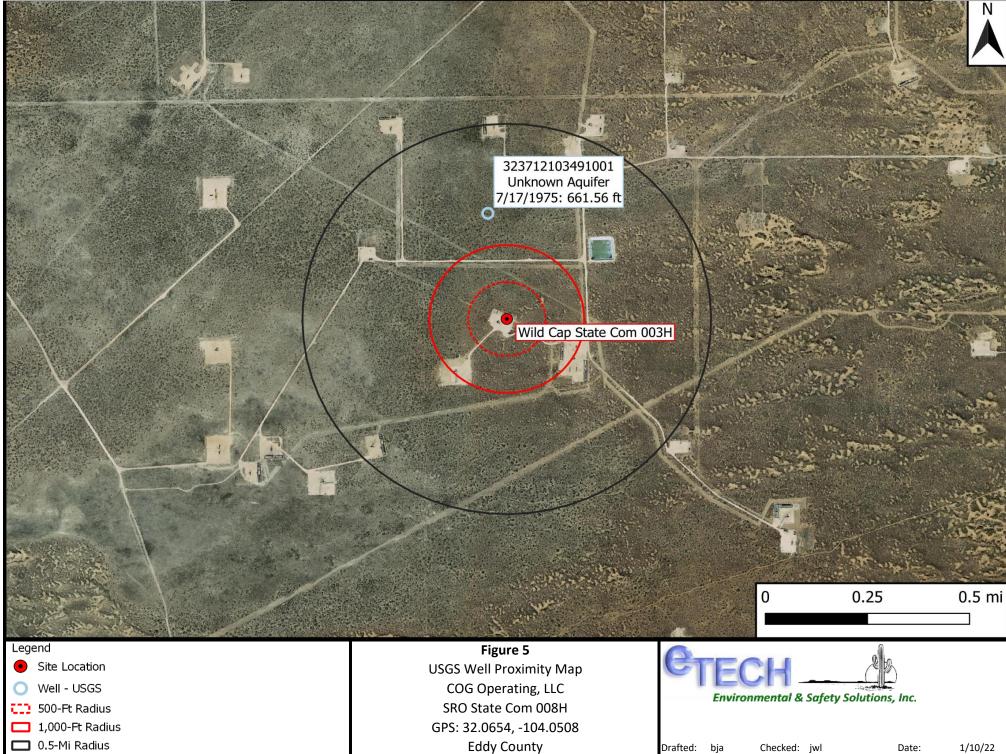
Estimated Yield:

*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.

11/12/21 10:02 AM

POINT OF DIVERSION SUMMARY





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	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 = • 323712103491001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

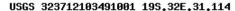
USGS 323712103491001 19S.32E.31.114

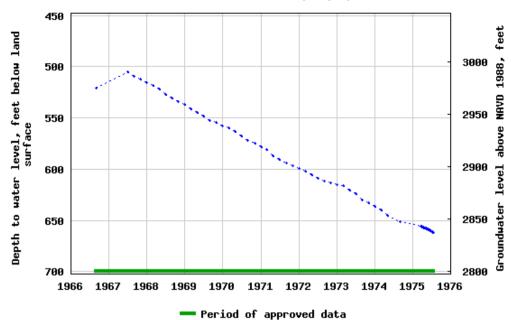
Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°37'12", Longitude 103°49'10" NAD27
Land-surface elevation 3,497 feet above NAVD88
This well is completed in the Other aquifers (N99990THER) national aquifer.

Output formats

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





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

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

Accessibility FOIA

Privacy

Policies and Notices

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: 2022-01-25 15:07:53 EST

0.58 0.52 nadww01



Appendix B Field Data & Soil Profile Logs



Sample Log

Project:	Wild Cap State #3
----------	-------------------

-103.8192 Project Number: Longitude: Latitude: 32.6162 15169

Sample ID	PID/Odor	Chloride Conc.	GPS
V SPI @ Sorface			
SPI QI'			
522@ suctorce			4
P2@1'			
VHOCKER			
VIID I'			
FH (Su Africa			
HQI'	_	1	
HB SUCLUE	-	• .	
1/2/	_		
H @ Cul Stone	_		4
H@I'	-		·
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Commission - CD #4 CO #11		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
Sample Point = SP #1 @ ## etc			Stockpile = Stockpile #1
Floor = FL #1 etc		Refusal = SP#1@4'-R	
Sidewall = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Areas



Sample Log

Date:

Project: Project Number.

Latitude: 32.6162

Longitude: 130,8192

Sample ID	PID/Odor	Chloride Conc.	GPS
FIQ 8ft		984	
F20, 6 ft	lisht	404	
WWI	light	329	
F3 @ 5 Ft	light	404	
F4@5H	light	324	
F5 Q 4 ft	light	404	
F 6 @ 4 ft	light	444	
F794FL	light	200	
SW !		404	
NWI		200	
NW2		324	
F11@ 6 17	-	404	
F120 > 94		592	
F308Ft	~	148	
MWIB		364	
808		592	
ru@8	- Carrier -	324	
F 5 (9) 8	455	409	
	* September 1	597	
FT 0 8	rand	364	
= 9 20 8		404	
F10@8		364	
5W2		324	
EW	enanc.	364	
Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
Floor = FL #1 etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewall = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Areas



Soil Profile

Desirate	Wild Con Chata #2					Date:	115/2021	_
Project: Project Num	Wild Cap State #3	15169	Latitude:	32.6162		Longitude:	-103.8192	
Project Num		13109	_ Latitude.	32.0102		_Longitude.	-105.8132	-
Depth (ft. bgs)				Descr	ription		
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Received by OCD: 2/3/2022 1:07:21 PM

Appendix C Laboratory Analytical Reports



November 19, 2021

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: WILD CAP ST #3

Enclosed are the results of analyses for samples received by the laboratory on 11/16/21 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 11/16/2021 Reported: 11/19/2021

Project Name: WILD CAP ST #3

Project Number: 15169

Project Location: COG - LEA CO NM

Sampling Date: 11/15/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NH @ SURFACE (H213277-01)

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	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	<0.300	0.300	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.5	% 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	<16.0	16.0	11/18/2021	ND	416	104	400	3.77	
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	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	<10.0	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	53.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	51.2	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



11/15/2021

Tamara Oldaker

Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Sampling Date:

Sample Received By:

Received: 11/16/2021

Reported: 11/19/2021 Sampling Type: Soil
Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact

Project Number: 15169

Project Location: COG - LEA CO NM

Sample ID: NH @ 1' (H213277-02)

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	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	<0.300	0.300	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 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	<16.0	16.0	11/18/2021	ND	416	104	400	3.77	
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	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	<10.0	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	59.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	56.7	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

11/16/2021

Reported: 11/19/2021

Project Name: WILD CAP ST #3
Project Number: 15169

Project Location: COG - LEA CO NM

Sampling Date: 11/15/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: EH @ SURFACE (H213277-03)

Received:

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	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	<0.300	0.300	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2021	ND	416	104	400	3.77	
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	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	22.6	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	68.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	65.4	% 38.9-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 11/16/2021 Sampling Date: 11/15/2021

Reported: 11/19/2021 Sampling Type: Soil
Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact

Project Number: 15169 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

Sample ID: EH @ 1' (H213277-04)

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	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	<0.300	0.300	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 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	<16.0	16.0	11/18/2021	ND	416	104	400	3.77	
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	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	15.5	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	58.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	56.4	% 38.9-14	2						

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11/15/2021

Soil

Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Sampling Date:

Received: 11/16/2021 Reported: 11/19/2021

Sampling Type: Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact Project Number: 15169 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

Sample ID: SH @ SURFACE (H213277-05)

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	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	<0.300	0.300	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.5	% 69.9-14	0						
Chloride, SM4500Cl-B	SM4500Cl-B mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/18/2021	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	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	32.2	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	66.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	64.5	% 38.9-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

 Received:
 11/16/2021
 Sampling Date:
 11/15/2021

 Reported:
 11/19/2021
 Sampling Type:
 Soil

Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact
Project Number: 15169 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

Sample ID: SH @ 1' (H213277-06)

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	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	<0.300	0.300	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 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	<16.0	16.0	11/18/2021	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	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	14.6	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	63.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	61.6	% 38.9-14	22						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

11/16/2021

Reported: 11/19/2021

Project Name: WILD CAP ST #3 Project Number: 15169

Project Location: COG - LEA CO NM Sampling Date: 11/15/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: WH @ SURFACE (H213277-07)

Received:

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	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	<0.300	0.300	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 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	32.0	16.0	11/18/2021	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	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	15.5	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	61.3	% 44.3-13.	3						
Surrogate: 1-Chlorooctadecane	59.9	% 38.9-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 11/16/2021 Sampling Date: 11/15/2021 Soil

Reported: 11/19/2021 Sampling Type: Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact

Sample Received By: Project Number: 15169 Tamara Oldaker Project Location: COG - LEA CO NM

Sample ID: WH @ 1' (H213277-08)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.081	0.050	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	0.209	0.050	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	0.071	0.050	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	0.461	0.300	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 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	32.0	16.0	11/18/2021	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	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	16.1	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	65.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	62.7	% 38.9-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 11/16/2021

Reported: 11/19/2021
Project Name: WILD CAP ST #3
Project Number: 15169

Project Location: COG - LEA CO NM

Sampling Date: 11/15/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H213277-09)

BTEX 8021B	mg	/kg	Analyze	d By: MS				RPD	Qualifier
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC		
Benzene*	40.4	5.00	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	241	5.00	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	188	5.00	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	445	15.0	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	915	30.0	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 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	16.0	16.0	11/18/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	9960	100	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	40000	100	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	6040	100	11/18/2021	ND					
Surrogate: 1-Chlorooctane	1760	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	1270	% 38.9-14	22						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 11/16/2021 Reported: 11/19/2021

Project Name: WILD CAP ST #3
Project Number: 15169

Project Location: COG - LEA CO NM

Sampling Date: 11/15/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 7' - R (H213277-10)

tecovery True Value QC RPD Qualifier 111 2.00 8.33
111 2.00 8.33
106 2.00 7.85
104 2.00 7.73
105 6.00 6.76
tecovery True Value QC RPD Qualifier
104 400 3.77
tecovery True Value QC RPD Qualifier
101 200 2.96
111 200 0.335
1 Re

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

 Received:
 11/16/2021
 Sampling Date:
 11/15/2021

 Reported:
 11/19/2021
 Sampling Type:
 Soil

Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact
Project Number: 15169 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: COG - LEA CO NM

Sample ID: SP 2 @ SURFACE (H213277-11)

RTFY 8021R

B1EX 8021B	mg	/ kg	Analyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.03	2.00	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	87.4	2.00	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	119	2.00	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	309	6.00	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	521	12.0	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	124	% 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	48.0	16.0	11/18/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	7540	100	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	36300	100	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	5970	100	11/18/2021	ND					
Surrogate: 1-Chlorooctane	1470	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	1160	% 38.9-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 11/16/2021 Reported: 11/19/2021

Project Name: WILD CAP ST #3
Project Number: 15169

Project Location: COG - LEA CO NM

Sampling Date: 11/15/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 7' - R (H213277-12)

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	11/18/2021	ND	2.17	109	2.00	5.81	
Toluene*	<0.050	0.050	11/18/2021	ND	2.08	104	2.00	5.44	
Ethylbenzene*	<0.050	0.050	11/18/2021	ND	2.06	103	2.00	6.17	
Total Xylenes*	<0.150	0.150	11/18/2021	ND	6.23	104	6.00	6.46	
Total BTEX	<0.300	0.300	11/18/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 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	<16.0	16.0	11/18/2021	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	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	<10.0	10.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	<10.0	10.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	76.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	75.5	% 38.9-14	2						

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Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

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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Celey D. Kune

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	Environmental & Safety Solu	rtions	, Inc).			BI	ILI	LTO	d'E				ANALYSIS REQUEST
Project Manager: Toc	loury					P.(O. #:							
Address: 2617 West Mai	rland /					Co	mpany	20	OG					
City: Hobbs	State: NM	Zip	: 88	240		Att			-					
Phone #: (575) 264-9884	Fax #: -	_				Ad	dress:							
Project #: 15/69	Project Owne	er: C	DG			Cit	ty:							
Project Name: Wild Can	st 13					Sta	ate:	Zi	ip:		9	SM)	21B	
Project Location: Dyra	I Lea CO. NM					Ph	one #:				Chloride	801	BTEX (8021B)	
Project Location: Dyra Sampler Name: M/gul	1 Rumine					Fax	x #:				공	IPH (8015M)		
FOR LAB USE ONLY		T		MATI	RIX		PRESERV	4	SAMPLI	VG		부	BT	
		NO MP		œ		П	1.1							
		(C)OM	CONTAINERS	SROUNDWATER WASTEWATER SOIL			27							
Lab I.D.	Sample I.D.	SOR	AN	NDW WA	Щ		/BASE COOL ER:							
110100		G)RAB	ON ON	GROUNDWATE WASTEWATER SOIL	SLUDGE	OTHER:	ACID/BASE ICE / COOL OTHER:							
H213277		~	#	S W	SLL	0	O O	-	DATE	TIME	-	~	-	
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3 FU QC	1,0	1	1					+	1		+		1	
3 EH@Su 4 EH@1'	17110	11						H			1		1	
5 SH @ SU	Cau	1/											1	
6 SARI'	17100	1												
7 WHOS	whee													
8 WHO!	1							L						
9 5PIR	surface	1	Ш					L						
NSPIQ	7-R	1	4	•			V		V		V	V	V	
cutyees. All claims including those for negligi	inal's lability and client's exclusive remedy for ence and any other cause whatsoever shall be	deeme	5 walve	ed unique made in s	enting an	d recei	leed by Cardinal v	within	30 days after	completion of th	m applicat	ole		
violates or successors arising aut of or related	r incidental or consequental demages, including to the performance of services hereunder by	Cardina	regard	diess at whether su						soris or otherws	e	- V-		TW- Addition #
Relinquished By	/11-16-21			red By:		1	1111	1	1	Phone Re- Fax Resul	t:	☐ Ye		No Add'l Phone #: No Add'l Fax #:
Melin	~ 1 No 30	-		auar ed By:	9 6	M	das	40		REMARKS	S:	_	1	
Relinquished By:	Date	Re	ceiv	red By:			1			1	AVI	a	Pt	echeny. (pm
	Time:									Plassa a	mail			C and results to pm@etechenv.com.
Delivered By: (Circle C	One) 5,5° , C-6	.5	0	Sample C		ion	CHECK		BY:	lease e	THORE C	opy (,, 00	o and results to prince sections.com.
Sampler - UPS - Bus - C		+4	12	Cool Ir	Tre	S	(Init							
CODM 006	(3.12	44)	□ No	N	0	A.	_						

Released to Imaging: 2/28/2022 12:58:47 PM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Company Name: ETech Environmental & Safety Solut							BI	LL TO					ANALYSIS REQUEST
Project Manager:	Soci lowry		4.50		,		P.C), #:						
Address: 26/	1 W Marland						Co	mpany:	04					
City: 40665		1 Zip	: 8	824	16		Att	n:						
Phone #: 575	264-9114 Fax#:						Add	dress:	_					
Project #: 1516	9 Project Ow	ner: Co	26				City	y:						
Project Name: W	Pural lea co, NM Miggue / Ruminec						Sta	ite:	Zip:					
Project Location:	Rural lea co, NM						Pho	one #:						
Sampler Name:	Migue Rymine						Fax				10			
FOR LAB USE ONLY	U	0.			MATE	RIX		PRESERV	SAME	LING	18			
Lab I.D.	Sample I.D. SP2 Q surface SP2 Q 7 P	O G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER:	ACID/BASE: CICE / COOL OTHER:	DATE	TIME	Chlori	BTEX	HAL	
11	P2 Q surtage	G	1		K			Y	11/15/21		K	X	X	
12	SP2 Q 7616	G	1		X	1		X	11/15/21		X	X	X	
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	Demages. Cardinal's liability and client's exclusive remedy hose for negligence and any other cause whatsoever sha											lo		
rvice. In no event shall Card filiates or successors arising	nal be liable for incidental or consequential damages, incl out of or related to the performance of services hereunder	by Cardinal,	regan	dless of	whether sur					sons or otherw	ise.			
telinquished By:	Date: 11-16-2 Times 16-36	/ Red	ceiv	ed/B		the state of the s	1	Ilda	Ken	Verbal Re All Result			Please	No Add'l Phone #: provide Email address:
telinquished By:	Date:	Re	ceiv	ed B	y:		~	vos) -	REMARK	S:		PI	mæetechenv.com
Delivered By: (Circ			- 1	Co	mple Cool In	tact			(ED BY:	Turnarous Thermomes	ter ID #1	113	Standa Rush	ard Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes No No Corrected Temp. °C



December 29, 2021

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: WILD CAP ST #3

Enclosed are the results of analyses for samples received by the laboratory on 12/28/21 11:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 12/28/2021 Reported: 12/29/2021

Project Name: WILD CAP ST #3
Project Number: 15169

Project Location: COG - EDDY CO NM

Sampling Date: 12/27/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: F 1 @ 8' (H213722-01)

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	12/28/2021	ND	2.00	99.8	2.00	7.90	
Toluene*	<0.050	0.050	12/28/2021	ND	1.88	93.9	2.00	7.98	
Ethylbenzene*	<0.050	0.050	12/28/2021	ND	1.86	92.8	2.00	8.74	
Total Xylenes*	<0.150	0.150	12/28/2021	ND	5.74	95.7	6.00	8.98	
Total BTEX	<0.300	0.300	12/28/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0	% 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	128	16.0	12/28/2021	ND	416	104	400	7.41	
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	12/28/2021	ND	206	103	200	2.77	
DRO >C10-C28*	<10.0	10.0	12/28/2021	ND	212	106	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	12/28/2021	ND					
Surrogate: 1-Chlorooctane	108	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	108	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 12/28/2021 Sampling Date: 12/27/2021

Reported: 12/29/2021 Sampling Type: Soil

Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact
Project Number: 15169 Sample Received By: Tamara Oldaker

Analyzed By: MS/

Project Location: COG - EDDY CO NM

mg/kg

Sample ID: F 2 @ 6' (H213722-02)

BTEX 8021B

	9/	9	7	7: : : : 0					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/28/2021	ND	2.00	99.8	2.00	7.90	
Toluene*	<0.050	0.050	12/28/2021	ND	1.88	93.9	2.00	7.98	
Ethylbenzene*	<0.050	0.050	12/28/2021	ND	1.86	92.8	2.00	8.74	
Total Xylenes*	<0.150	0.150	12/28/2021	ND	5.74	95.7	6.00	8.98	
Total BTEX	<0.300	0.300	12/28/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2021	ND	416	104	400	7.41	
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	12/28/2021	ND	206	103	200	2.77	
DRO >C10-C28*	<10.0	10.0	12/28/2021	ND	212	106	200	6.44	
EXT DRO >C28-C36	<10.0	10.0	12/28/2021	ND					
Surrogate: 1-Chlorooctane	110	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	109	% 59.5-14	2						

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Celey D. Kreine



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 12/28/2021 Reported: 12/29/2021

Project Name: WILD CAP ST #3

Project Location: COG - EDDY CO NM

15169

Sampling Date: 12/27/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: F 3 @ 5' (H213722-03)

Project Number:

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	51.8	2.00	12/28/2021	ND	2.00	99.8	2.00	7.90	
Toluene*	238	2.00	12/28/2021	ND	1.88	93.9	2.00	7.98	
Ethylbenzene*	94.7	2.00	12/28/2021	ND	1.86	92.8	2.00	8.74	
Total Xylenes*	200	6.00	12/28/2021	ND	5.74	95.7	6.00	8.98	
Total BTEX	585	12.0	12/28/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/28/2021	ND	416	104	400	7.41	
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*	4990	10.0	12/28/2021	ND	206	103	200	2.77	
DRO >C10-C28*	9120	10.0	12/28/2021	ND	212	106	200	6.44	
EXT DRO >C28-C36	996	10.0	12/28/2021	ND					
Surrogate: 1-Chlorooctane	579	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	358	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

12/28/2021

Reported: 12/29/2021

Project Name: WILD CAP ST #3
Project Number: 15169

Project Location: COG - EDDY CO NM

Sampling Date: 12/27/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: F 4 @ 5' (H213722-04)

Received:

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	71.0	2.00	12/28/2021	ND	2.00	99.8	2.00	7.90	
Toluene*	262	2.00	12/28/2021	ND	1.88	93.9	2.00	7.98	
Ethylbenzene*	96.3	2.00	12/28/2021	ND	1.86	92.8	2.00	8.74	
Total Xylenes*	204	6.00	12/28/2021	ND	5.74	95.7	6.00	8.98	
Total BTEX	633	12.0	12/28/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	16.0	16.0	12/28/2021	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5700	100	12/28/2021	ND	206	103	200	2.77	
DRO >C10-C28*	14100	100	12/28/2021	ND	212	106	200	6.44	
EXT DRO >C28-C36	1800	100	12/28/2021	ND					
Surrogate: 1-Chlorooctane	833	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	558	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 12/28/2021 Sampling Date: 12/27/2021

Reported: 12/29/2021 Sampling Type: Soil

Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact
Project Number: 15169 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: WW 1 (H213722-05)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	24.7	2.00	12/28/2021	ND	2.00	99.8	2.00	7.90	
Toluene*	154	2.00	12/28/2021	ND	1.88	93.9	2.00	7.98	
Ethylbenzene*	72.5	2.00	12/28/2021	ND	1.86	92.8	2.00	8.74	
Total Xylenes*	157	6.00	12/28/2021	ND	5.74	95.7	6.00	8.98	
Total BTEX	408	12.0	12/28/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	16.0	16.0	12/28/2021	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6880	100	12/28/2021	ND	206	103	200	2.77	
DRO >C10-C28*	10400	100	12/28/2021	ND	212	106	200	6.44	
EXT DRO >C28-C36	761	100	12/28/2021	ND					
Surrogate: 1-Chlorooctane	668	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	425	% 59.5-14	2						

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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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Celeg D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

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

Company Name: Etech Environmental & Safety Solution	ons, Inc.	BIL	L TO				ANALYSIS REQUEST
Project Manager:		P.O. #:					
Address: 2617 West Marland			106				
City: Hobbs State: NM Z	Lip: 88240	Attn: Jack	qui Harris				
Phone #: (575) 264-9884 Fax #:		Address: "					
Project #: 5 69 Project Owner:	COG	City:					
Project Name: Wild Cap State #3		State: Z	Zip:	e	TPH (8015M)	BTEX (8021B)	
Project Location: Rwal Eddy		Phone #:		Chloride	801	(80	
Sampler Name: Sommic Casalez		Fax #:		CH	H	X	
FOR LAB USE ONLY	MATRIX	PRESERV.	SAMPLING		=	18	
Lab I.D. Sample I.D. #213722	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME				
1 FLC8'	CIV	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is	212121	X	X	X	
z F206'		1:	1				
3 7365'							
4 5465		.					
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12/18/21		+					
VAP I	(1)	-				-	
	1 1 1 1 1	-					
LEASE NOTE: Liability and Dismagus. Cardinal's liability and client's exclusive remedy for any							
rialyses. All claims including those for negligence and any other course whitesoever shall be dee shruce. In no event shall Cardinal be lisate for incidental or consequental demages, including will iffiliates or successors anaxig out or or related to the performance of services hereunder by Card	thout limitation, business interruptions,	toss of use, or tons of profe	is incurred by client, its autoriding	ios.			
	Received By:	a surrou opan any or sto a	Phone Res	sult:	☐ Yes		
Time:	YAV	1	Fax Result		□ Yes	s 🗆 No	o Add'i Fax #:
Relinquished By: Date: [2-28-2]	Received By:	RALI	1				
VAW [2-28-2] Time / 20	busara 16	Maals	Serc				
M. C	9.5 a Sample Conditi	ion CHECKE	Please er	mail c	ору о	f COC a	and results to pm@etechenv.com.
	Cool Intact	(Initial	ls)				
(-11.36	#13 No No		-				
	linal cannot accept ver	rbal changes. P	lease fax written c	hange	s to 5	75-393-2	2476
Revision 1.0							



December 30, 2021

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: WILD CAP ST #3

Enclosed are the results of analyses for samples received by the laboratory on 12/29/21 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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 2617 W MARLAND HOBBS NM, 88240 Fax To:

Applyand By MC/

Received: 12/29/2021 Reported: 12/30/2021

Project Name: WILD CAP ST #3
Project Number: 15169

Project Location: COG - EDDY CO NM

Sampling Date: 12/28/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: F 5 @ 4' (H213742-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	35.2	2.00	12/30/2021	ND	2.04	102	2.00	1.01	QM-07
Toluene*	188	2.00	12/30/2021	ND	2.05	102	2.00	1.27	QM-07
Ethylbenzene*	75.2	2.00	12/30/2021	ND	2.01	101	2.00	1.82	QM-07
Total Xylenes*	157	6.00	12/30/2021	ND	6.08	101	6.00	1.17	QM-07
Total BTEX	456	12.0	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	32.0	16.0	12/29/2021	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3870	100	12/30/2021	ND	202	101	200	5.41	
DRO >C10-C28*	8450	100	12/30/2021	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	861	100	12/30/2021	ND					
Surrogate: 1-Chlorooctane	469	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	351	% 59.5-14	2						

Cardinal Laboratories *=Accredited Analyte

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Celey & Keene



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

12/29/2021

Reported: 12/30/2021

Project Name: WILD CAP ST #3
Project Number: 15169

Project Location: COG - EDDY CO NM

Sampling Date: 12/28/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: F 6 @ 4' (H213742-02)

Received:

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	126	2.00	12/30/2021	ND	2.04	102	2.00	1.01	
Toluene*	348	2.00	12/30/2021	ND	2.05	102	2.00	1.27	
Ethylbenzene*	114	2.00	12/30/2021	ND	2.01	101	2.00	1.82	
Total Xylenes*	238	6.00	12/30/2021	ND	6.08	101	6.00	1.17	
Total BTEX	826	12.0	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	<16.0	16.0	12/29/2021	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6550	100	12/30/2021	ND	202	101	200	5.41	
DRO >C10-C28*	9010	100	12/30/2021	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	852	100	12/30/2021	ND					
Surrogate: 1-Chlorooctane	544	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	341	% 59.5-14	2						

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 12/29/2021 Sampling Date: 12/28/2021

Reported: 12/30/2021 Sampling Type: Soil
Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact

Project Number: 15169 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: F 7 @ 4' (H213742-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	102	2.00	12/30/2021	ND	2.04	102	2.00	1.01	
Toluene*	308	2.00	12/30/2021	ND	2.05	102	2.00	1.27	
Ethylbenzene*	105	2.00	12/30/2021	ND	2.01	101	2.00	1.82	
Total Xylenes*	221	6.00	12/30/2021	ND	6.08	101	6.00	1.17	
Total BTEX	736	12.0	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/29/2021	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6070	100	12/30/2021	ND	202	101	200	5.41	
DRO >C10-C28*	9360	100	12/30/2021	ND	195	97.5	200	9.20	
EXT DRO >C28-C36	1050	100	12/30/2021	ND					
Surrogate: 1-Chlorooctane	599	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	362	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 12/29/2021 Sampling Date: 12/28/2021

Reported: 12/30/2021 Sampling Type: Soil
Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact

Project Number: 15169 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: SW 1 (H213742-04)

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	12/30/2021	ND	2.04	102	2.00	1.01	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	102	2.00	1.27	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.01	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.08	101	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 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	<16.0	16.0	12/29/2021	ND	432	108	400	3.64	
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	12/30/2021	ND	201	100	200	22.1	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	205	102	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	112 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	120	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

 Received:
 12/29/2021
 Sampling Date:
 12/28/2021

 Reported:
 12/30/2021
 Sampling Type:
 Soil

Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact
Project Number: 15169 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: NW 1 (H213742-05)

102 102 101	BS 9 2.04 2.05	2.04	Method Blank	nalyzed M		Reporting Limit	Result	Analyte
102			ND	30/2021				•
	2.05	2.05			12,	0.050	<0.050	nzene*
101		2.03	ND	30/2021	12,	0.050	<0.050	luene*
	2.01	2.01	ND	30/2021	12,	0.050	<0.050	nylbenzene*
101	6.08	6.08	ND	30/2021	12,	0.150	<0.150	tal Xylenes*
			ND	30/2021	12,	0.300	<0.300	tal BTEX
					40	69.9-140	96.7 %	rrogate: 4-Bromofluorobenzene (PID
			By: AC	Analyzed By		J	mg/k	loride, SM4500CI-B
Recovery	BS 9	BS	Method Blank	nalyzed M	А	Reporting Limit	Result	Analyte
108	432	432	ND	29/2021	12,	16.0	<16.0	loride
			By: MS	Analyzed By		J	mg/k	H 8015M
Recovery	BS 9	BS	Method Blank	nalyzed M	А	Reporting Limit	Result	Analyte
100	201	201	ND	30/2021	12,	10.0	<10.0	O C6-C10*
102	205	205	ND	30/2021	12,	10.0	<10.0	O >C10-C28*
			ND	30/2021	12,	10.0	<10.0	T DRO >C28-C36
					36	66.9-130	108 %	rrogate: 1-Chlorooctane
					12	59.5-142	115 %	rrogate: 1-Chlorooctadecane
			ND	30/2021	12, 12, 36	10.0 10.0 66.9-136	<10.0 <10.0	O >C10-C28* T DRO >C28-C36 rrogate: 1-Chlorooctane

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 12/29/2021 Reported: 12/30/2021

Project Name: WILD CAP ST #3

Project Location: COG - EDDY CO NM

15169

Sampling Date: 12/28/2021

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NW 2 (H213742-06)

Project Number:

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	12/30/2021	ND	2.04	102	2.00	1.01	
Toluene*	<0.050	0.050	12/30/2021	ND	2.05	102	2.00	1.27	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	2.01	101	2.00	1.82	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	6.08	101	6.00	1.17	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 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	<16.0	16.0	12/29/2021	ND	432	108	400	3.64	
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	12/30/2021	ND	201	100	200	22.1	
DRO >C10-C28*	<10.0	10.0	12/30/2021	ND	205	102	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	12/30/2021	ND					
Surrogate: 1-Chlorooctane	109	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	116	% 59.5-14	2						

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Celey D. Keine



Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

QR-04 The RPD for the BS/BSD was outside of historical limits.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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Celeg D. Freene

Released to Imaging: 2/28/2022 12:58:47 PM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

1	01 East Marland, Hobbs, NM 88240
	(575) 393-2326 FAX (575) 393-2476
ompany Name:	Etech Environmental & Safety Solutions
roject Manager:	

Company Name: Etech Environmental & Safety Solutions, Inc.	BILL TO	ANALYSIS REQUEST
Project Manager:	P.O. #:	
Address: 2617 West Marland	Company COST 3	
City: Hobbs State: NM Zip: 88240	Attn: Jacqui Ham 8	
Phone #: (575) 264-9884 Fax #:	Address:	
Project #: 15/69 Project Owner: COS	City:	
Project Name: Wild Cap State #3	State: Zip:	(8021B) (8021B)
Project Location: Rual Eddy	Phone #:	Chloride PH (8015)
Sampler Name: Namic Casalit	Fax #:	Chloride TPH (8015M) BTEX (8021B
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	
Tap I.D. Sample I.D. ACONTAINERS GROUNDWATER WASTEWATER OIL OIL OIL OIL OIL OIL OIL OI	OTHER: ACID/BASE: ACID	
PLEASE NOTE: Liability and Daniages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contra	t or first, shall be limited in the arresport part by the client for the	
PPLEASE NOTE: Labelly and Daniages. Calculars industry and other's exclusive retiroly not any clean areasy inventor observed smallysers. At cleans, including those for negligence and any other cause whatevery shall be deemed watered unless made in withing it service. In no event shall Cardinal be liable for ecidental or consequental damages, including without limitation, business interruption	nd received by Cardinal within 30 days after completion of the	applicable
affiniates or successors ansing out of or related to the performance of services hereunder by Cardinal, regardless of whether such clair	n is based upon any of the above stated reasons or otherwise Phone Res	
Time:	Fax Result REMARKS	: Yes No Add'l Fax #:
Relinquished By: Pate: Received By:		nail copy of COC and results to pm@etechenv.com.
Cool intact	(Initiate)	
Sampler - UPS - Bus - Other: -10.0 c #13 No 1	o To	



January 03, 2022

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: WILD CAP ST #3

Enclosed are the results of analyses for samples received by the laboratory on 12/30/21 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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)

Accreditation applies to public drinking water matrices.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Applyand By MC/

Fax To:

 Received:
 12/30/2021
 Sampling Date:
 12/29/2021

 Reported:
 01/03/2022
 Sampling Type:
 Soil

Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact
Project Number: 15169 Sample Received By: Jodi Henson

Project Location: COG - EDDY CO NM

Sample ID: F 11 @ 6' (H213758-01)

DTEV 0021D

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	12/30/2021	ND	2.10	105	2.00	3.08	
Toluene*	<0.050	0.050	12/30/2021	ND	2.02	101	2.00	3.54	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	1.96	98.1	2.00	4.11	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	5.97	99.5	6.00	4.63	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 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	32.0	16.0	12/30/2021	ND	432	108	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	01/03/2022	ND	231	115	200	11.0	
DRO >C10-C28*	<10.0	10.0	01/03/2022	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	01/03/2022	ND					
Surrogate: 1-Chlorooctane	88.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.3	% 59.5-14	2						

Cardinal Laboratories *=Accredited Analyte

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 12/30/2021 Sampling Date: 12/29/2021

Reported: 01/03/2022 Sampling Type: Soil

Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact Sample Received By: Project Number: 15169 Jodi Henson

Project Location: COG - EDDY CO NM

Sample ID: F 12 @ 7' (H213758-02)

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	12/30/2021	ND	2.10	105	2.00	3.08	
Toluene*	<0.050	0.050	12/30/2021	ND	2.02	101	2.00	3.54	
Ethylbenzene*	<0.050	0.050	12/30/2021	ND	1.96	98.1	2.00	4.11	
Total Xylenes*	<0.150	0.150	12/30/2021	ND	5.97	99.5	6.00	4.63	
Total BTEX	<0.300	0.300	12/30/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 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	32.0	16.0	12/30/2021	ND	432	108	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	01/03/2022	ND	231	115	200	11.0	
DRO >C10-C28*	<10.0	10.0	01/03/2022	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	01/03/2022	ND					
Surrogate: 1-Chlorooctane	93.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.4	% 59.5-14	2						

Cardinal Laboratories *=Accredited Analyte

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with Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 2/28/2022 12:58:47 PM

ARDINAL LABORATORIES

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

Company Name: Etech Environmental & Safety Solutions, I	Inc. BILL TO	ANALYSIS REQUEST
Project Manager:	P.O. #:	
Address: 2617 West Marland	Company COS	
City: Hobbs State: NM Zip: 8	38240 Attn: Jacqui Faris	
Phone #: (575) 264-9884 Fax #:	Address:	
Project #: 5/69 Project Owner:	COC City:	
Project Name: Wild Cap State #3	State: Zip:	11B) SM
Project Location: VIIII	Phone #:	3014 802
Sampler Name: Samplic tasalet	Fax #:	Chloride TPH (8015M) BTEX (8021B)
FOR LAB USE ONLY	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D. H213758	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	ME
FILE 6' CI	V Dhales	XXX
2 F17. P. 7' CI	13/29/21	XXX
(2/20/21		
PLEASE NOTE: Lability and Dismages. Cardina's initiality and otient's exclusive restrict only claims a smallyses. All claims including those for negligence and any other cause whereover shall be deemed w service. In no event small Cardinal be leade for incidental or consequential damages, including without fit	vaived unless made in writing and received by Cardinal within 30 days after complete	elion of the applicable
affiliates or successors ansing out of or related to the performance of services hereunder by Cardinal, re	agardless of whether such claim is based upon any of the above stated reasons or o	
12/29/21 5 00pm	Fax R REMA	Result: Yes No Add'l Fax #:
Time: 14:0040		ise email copy of COC and results to pm@etechenv.com.
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 8.5% - 5 -9	Sample Condition CHECKED BY:	
Sampler - UPS - Bus - Other: 0, 72 5 - 9	No No	

FORM-006 Revision 1.0

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



January 04, 2022

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: WILD CAP ST #3

Enclosed are the results of analyses for samples received by the laboratory on 01/03/22 12:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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)

Accreditation applies to public drinking water matrices.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

 Received:
 01/03/2022
 Sampling Date:
 12/30/2021

 Reported:
 01/04/2022
 Sampling Type:
 Soil

Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact
Project Number: 15169 Sample Received By: Tamara Oldaker

Applyand By MC/

Project Location: COG - EDDY CO NM

Sample ID: WW 1 B (H220003-01)

DTEV 0021D

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	01/03/2022	ND	2.06	103	2.00	4.45	
Toluene*	<0.050	0.050	01/03/2022	ND	2.00	100	2.00	4.85	
Ethylbenzene*	<0.050	0.050	01/03/2022	ND	1.95	97.4	2.00	4.86	
Total Xylenes*	<0.150	0.150	01/03/2022	ND	5.93	98.8	6.00	5.20	
Total BTEX	<0.300	0.300	01/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 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	48.0	16.0	01/04/2022	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	01/04/2022	ND	211	106	200	0.853	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	222	111	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					
Surrogate: 1-Chlorooctane	90.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	95.5	% 59.5-14	2						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/03/2022 Sampling Date: 12/30/2021

Reported: 01/04/2022 Sampling Type: Soil

Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 15169 Sample Received By:

Project Location: COG - EDDY CO NM

Sample ID: F 3 @ 8' (H220003-02)

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	01/03/2022	ND	2.06	103	2.00	4.45	
Toluene*	<0.050	0.050	01/03/2022	ND	2.00	100	2.00	4.85	
Ethylbenzene*	<0.050	0.050	01/03/2022	ND	1.95	97.4	2.00	4.86	
Total Xylenes*	<0.150	0.150	01/03/2022	ND	5.93	98.8	6.00	5.20	
Total BTEX	<0.300	0.300	01/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	mg/kg Analy		d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/04/2022	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	01/04/2022	ND	211	106	200	0.853	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	222	111	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					
Surrogate: 1-Chlorooctane	86.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.7	% 59.5-14	2						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/03/2022 Sampling Date: 12/30/2021

Reported: 01/04/2022 Sampling Type: Soil

Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 15169 Sample Received By:

Project Location: COG - EDDY CO NM

Sample ID: F 8 @ 8' (H220003-03)

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	01/03/2022	ND	2.06	103	2.00	4.45	
Toluene*	<0.050	0.050	01/03/2022	ND	2.00	100	2.00	4.85	
Ethylbenzene*	<0.050	0.050	01/03/2022	ND	1.95	97.4	2.00	4.86	
Total Xylenes*	<0.150	0.150	01/03/2022	ND	5.93	98.8	6.00	5.20	
Total BTEX	<0.300	0.300	01/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/04/2022	ND	400	100	400	0.00	
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	01/04/2022	ND	211	106	200	0.853	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	222	111	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					
Surrogate: 1-Chlorooctane	90.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	95.2	% 59.5-14	2						

Cardinal Laboratories *=Accredited Analyte

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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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Joff

Released to Imaging: 2/28/2022 12:58:47 PM

ARDINAL LABORATORIES

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

Company Name: Etech Environmental & Safety Solutions, Inc.			BILL TO ANALYSIS REQUEST						ANALYSIS REQUEST							
Project Manager:							P.	0. #:								
Address: 2617 We	est Marland						C	ompa	any (∞	5					
City: Hobbs	State: NM	Zip	: 88	240						ui l	arr	5				
Phone #: (575) 264								ddres								
Project #: 516	Project Owne	r: (20	6			Ci	ity:							_	
Project Name: ()	in (no State#3							ate:		Zip):		0	SM)	118	
Project Location:	lival Eddy						PI	none	#:				orid		(8021B)	
Sampler Name:	ommic Casalet							ax #:	k:		Chloride	TPH (8015M)	×			
FOR LAB USE ONLY	OH THE COURT IN	T			MA	TRIX			SERV		SAMPLI	NG		4	BTEX	
1 1		MP.		m												
		G)RAB OR (C)OMP	CONTAINERS	GROUNDWATER												
Lab I.D.	Sample I.D.	SOR	AN	GROUNDWATE	× × ×	ш		ACID/BASE	CE / COOL	ı						
100000)RAE	NON	SOUI	SOIL	OIL	OTHER	ID/B	ICE / CO							
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	ges Cardinal's lability and client's exclusive remedy for for negligence and any other cause whelenever shall be													ble		
affiliates or successors arising out of	e liable for incidental or consequental damages, including or related to the performance of services nereunder by											sons or otherwis	se			
Relinquished By:	Date: 12/30/21	Re	cei	ved B	7	1	1				_	Phone Re Fax Resul		E Ye		□ No Add'l Phone #: □ No Add'l Fax #:
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Relinquished By:	Date: 1-3-22	Re	cei	ved B	y:	(8	>	, ,	/		K	115	h!		
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	-8.2e) C-0	2.5	C	C	loo	Intact		1		tials)						
Sampler - UPS - Bu	is - Other: -8.7	2 2	411	3	No	Ye	lo	-	VE)	,					

Received by OCD: 2/3/2022 1:07:21



January 05, 2022

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: WILD CAP ST #3

Enclosed are the results of analyses for samples received by the laboratory on 01/04/22 8:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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)

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

 Received:
 01/04/2022
 Sampling Date:
 01/03/2022

 Reported:
 01/05/2022
 Sampling Type:
 Soil

Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact
Project Number: 15169 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: F 4 @ 8' (H220010-01)

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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	0.073	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	0.275	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	0.367	0.300	01/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/04/2022	ND	400	100	400	0.00	
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*	24.1	10.0	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	789	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	105	10.0	01/04/2022	ND					
Surrogate: 1-Chlorooctane	107	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	116	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/04/2022 Sampling Date: 01/03/2022

Reported: 01/05/2022 Sampling Type: Soil

Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact
Project Number: 15169 Sample Received By: Tamara Oldaker

Analyzed By: MC/

Project Location: COG - EDDY CO NM

ma/ka

Sample ID: F 5 @ 8' (H220010-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/04/2022	ND	400	100	400	0.00	
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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					
Surrogate: 1-Chlorooctane	99.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	99.4	% 59.5-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/04/2022 Sampling Date: 01/03/2022

Reported: 01/05/2022 Sampling Type: Soil

Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact Sample Received By: Project Number: 15169 Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: F 6 @ 8' (H220010-03)

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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 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	32.0	16.0	01/04/2022	ND	400	100	400	0.00	
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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	29.9	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					
Surrogate: 1-Chlorooctane	100 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	101 9	6 59.5-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/04/2022

01/05/2022

Reported: Project Name: WILD CAP ST #3

Project Number: 15169 Project Location: COG - EDDY CO NM Sampling Date: 01/03/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: F 7 @ 8' (H220010-04)

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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	0.075	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	0.264	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	0.365	0.300	01/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	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	16.0	16.0	01/04/2022	ND	400	100	400	0.00	
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*	22.5	10.0	01/05/2022	ND	208	104	200	2.81	
DRO >C10-C28*	930	10.0	01/05/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	135	10.0	01/05/2022	ND					
Surrogate: 1-Chlorooctane	109 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	126 9	59.5-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/04/2022 Sampling Date: 01/03/2022

Reported: 01/05/2022 Sampling Type: Soil

Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 15169

Project Location: COG - EDDY CO NM

Sample ID: F 9 @ 8' (H220010-05)

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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/04/2022	ND	400	100	400	0.00	
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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	76.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					
Surrogate: 1-Chlorooctane	102 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	102 9	6 59.5-14	2						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/04/2022 Sampling Date: 01/03/2022

Reported: 01/05/2022 Sampling Type: Soil

Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact
Project Number: 15169 Sample Received By: Tamara Oldaker

Analyzed By: MC/

Project Location: COG - EDDY CO NM

ma/ka

Sample ID: F 10 @ 8' (H220010-06)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 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	16.0	16.0	01/04/2022	ND	400	100	400	0.00	
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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					
Surrogate: 1-Chlorooctane	105	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	104	% 59.5-14	2						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

 Received:
 01/04/2022
 Sampling Date:
 01/03/2022

 Reported:
 01/05/2022
 Sampling Type:
 Soil

Project Name: WILD CAP ST #3 Sampling Condition: Cool & Intact
Project Number: 15169 Sample Received By: Tamara Oldaker

Project Location: COG - EDDY CO NM

Sample ID: SW 2 (H220010-07)

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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/04/2022	ND	416	104	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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					
Surrogate: 1-Chlorooctane	107	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	106	% 59.5-14	12						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/04/2022

Reported: 01/05/2022

Project Name: WILD CAP ST #3 Project Number: 15169

Project Location: COG - EDDY CO NM Sampling Date: 01/03/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: EW (H220010-08)

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	01/04/2022	ND	2.08	104	2.00	5.66	
Toluene*	<0.050	0.050	01/04/2022	ND	2.02	101	2.00	6.32	
Ethylbenzene*	<0.050	0.050	01/04/2022	ND	1.96	97.9	2.00	6.19	
Total Xylenes*	<0.150	0.150	01/04/2022	ND	5.96	99.3	6.00	5.91	
Total BTEX	<0.300	0.300	01/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/04/2022	ND	416	104	400	0.00	
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	01/04/2022	ND	208	104	200	2.81	
DRO >C10-C28*	<10.0	10.0	01/04/2022	ND	218	109	200	0.660	
EXT DRO >C28-C36	<10.0	10.0	01/04/2022	ND					
Surrogate: 1-Chlorooctane	103 %	66.9-13	6						
Surrogate: 1-Chlorooctadecane	101 9	6 59.5-14	2						

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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

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

RDINAL LABORATORIES

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

Company Name:	Etech Environmental & Safety Sol	utions, Inc.		BILL TO					ANALY	SIS REC	UEST	
Project Manager:			P.O. #:									
Address: 2617	West Marland		Compan	, COG								
City: Hobbs	State: NM	Zip: 88240	Attn:	acqui ther	ris							
Phone #: (575)	264-9884 Fax #:	0.0	Address	· of								
Project #: 5	69 Project Own	er: COS	City:	-								
Project Name:	Wild Cap State#3		State:	Zip:		0	SM)	18				
Project Location:	Rival Eddy		Phone #:			orid	301	(80				
Sampler Name:	Dominic (disaret	2	Fax #:			Chloride	TPH (8015M)	BTEX (8021B)				
FOR LAB USE ONLY	00,,,,,,		ATRIX PRESI	ERV. SAMPL	ING		=	B				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL	OTHER:	TIME							
1	F468'	CI		1/3/22		X	X	X				
2	F508'			1			\perp					
3_	F6 68'						\perp	1				
4	F7 68'						+	-		,		
5	E9 e8'	- 1 1 (1	1				+	+				
6	F10 68'			1			++	+				
. 78	SW2					1		1/				
8	EW	-AA A	V	-			4	<u> </u>				
	WAP 1/4/22	1 0 11	1 -	-								
EASE NOTE: Labely and C	Damages. Cardinal's lability and client's exclusive remedy for	r any claim arising whether bas	and in contract or tort, shall be li	imited to the amount pa	d by the chant for	the .						
rvice. In no event shall Card	tions for negligance and any other cause whitsoever shall be finel be flable for incidental or consequental damages, include out of or related to the performance of services hereunder by	ing without limitation, business	interruptions, loss of use, or los	es of profits incurred by	chent, its subordior	ion,						
elinquished By:	Date:	Received By:	/	iy or the aporte acred it	Phone Re	sult:	O Yes					
Dunca	1/3/22 Time:	CAR.			Fax Resul		☐ Yes	I	D AUGIFAX			
elinquished By:	Date:	Received By:	O MI	1/2		V	115/	1				
11 A	1-4-22 Time:	laura	ina Kldos	Bell		P						
Delivered By:	(Circle One) -71 (0-	2 Co Samo	le Condition CH	ECKED BY:	Please e	rnail co	opy of	COC	and results to	o pm@ete	chenv.com.	
		Cool	Intact	(Initials)								
Sampler - UPS -	Bus - Other: (-7.6c	#1/3	es Yes	10.								
FORM-006		ardinal cannot ac	cept verbal chang	jes. Please fa	x written c	hanges	s to 57	5-393-2	2476			
Revision 1.	.0											

Appendix D Photographic Log

Photo Number:

1

Photo Direction:

Southeast

Photo Description:

View of the affected area.



Photo Number:

2

Photo Direction:

Northwest

Photo Description:

View of the affected area.

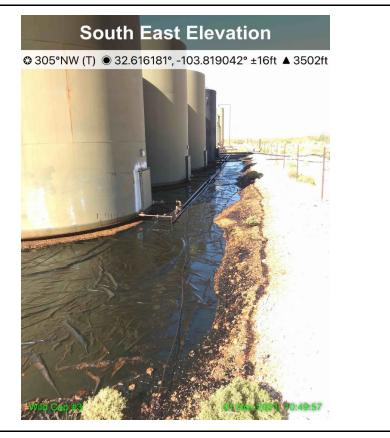


Photo Number:

3

Photo Direction:

West

Photo Description:

View of the affected area.

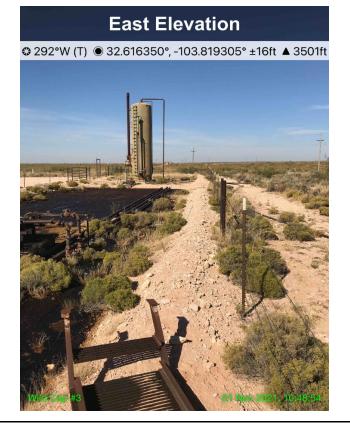


Photo Number:

4

Photo Direction:

West-Northwest

Photo Description:

View of the excavated area.



Photo Number:

5

Photo Direction:

Southeast

Photo Description:

View of the excavated area.

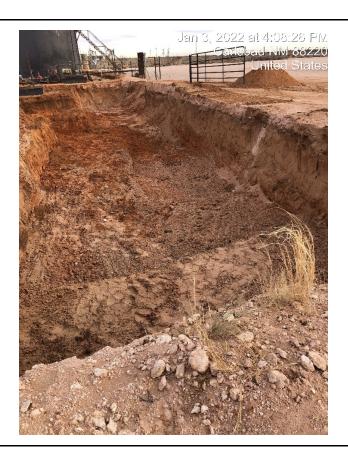


Photo Number:

6

Photo Direction:

Northwest

Photo Description:

View of the excavated area.



Photo Number:

7

Photo Direction:

Northwest

Photo Description:

View of the remediated area after backfill and regrading.



Photo Number:

8

Photo Direction:

Southeast

Photo Description:

View of the remediated area after backfill and regrading.



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 78280

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	78280
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobu	Closure Report Approved. Please note for future reference groundwater data cannot be older than 25 years.	2/28/2022