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Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

Received by OCD: 3/10/2022 1:42:18 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.									
Printed Name: Jacqui Harris	Title: Sr. Environmental Engineer								
Signature: Jacque Thomas	Date:3/2/2022								
email: Jacqui.Harris@conocophillips.com Telephone: (575) 745-1807									
OCD Only									
Received by:	Received by: Date:								

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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 following ite	ems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11	NMAC
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
✓ Laboratory analyses of final sampling (Note: appropriate 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 file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and rem human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulative restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the OC	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Printed Name: Jacqui Harris	Title: Sr. Environmental Engineer
Signature: Jacque Heris	Date:3/2/2022
email: Jacqui.Harris@conocophillips.com	Telephone: (575) 745-1807
OCD Only	
Received by: Chad Hensley	Date: 04/05/2022
remediate contamination that poses a threat to groundwater, surface we party of compliance with any other federal, state, or local laws and/or	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible r regulations.
Closure Approved by:	Date:04/05/2022
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced

Remediation Summary & Soil Closure Request

COG Operating, LLC LPC 31 Federal 002

Lea County, New Mexico
Unit Letter "G", Section 31, Township 18 South, Range 32 East
Latitude 32.70630 North, Longitude 103.80413 West
NMOCD Reference No. nAPP2127342251

Prepared By:

Etech Environmental & Safety Solutions, Inc.

2507 79th Street, Unit A Lubbock, Texas 79423

Ben J. Arguijo

Joel V

l W. Lowry

Environmental & Safety Solutions, Inc.

Midland • San Antonio • Lubbock • Hobbs • Lafayette

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APPENDICES

Appendix A - Depth to Groundwater Information

Appendix B - Field Data

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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 LPC 31 Federal 002. Details of the release are summarized below:

Location of Release Source									
Latitude: 32.70630 Longitude: -103.80413									
Provided GPS are in WGS84 format.									
Site Name:	Tank Battery								
Date Release Disco	vered:	9/9/2021	API # (if appli	cable):	30-025-38157				
Unit Letter	Section	Township	Range	County					
"G"	31	18S	32E	Lea					
Surface Owner:	State X F	<u></u> , ,	Private (Nand Volume of						
X Crude Oil	Volume	e Released (bbls)	30	Volume R	ecovered (bbls) 25				
Produced Wat	er Volume	Released (bbls)		Volume R	Volume Recovered (bbls)				
Is the concentration of total dissolved solids (TDS) in the produced water $> 10,000 \text{ mg/L}$?									
Condensate	Volume	Released (bbls)		Volume R	ecovered (bbls)				
Natural Gas	Volume	e Released (Mcf)		Volume R	ecovered (Mcf)				
Other (describ	-	Weight Released		Volume/W	eight Recovered				
Cause of Release: The release was at	tributed to a	hole in the bottom of spatched to remove			elease occurred within the lined				
		In	itial Response						
X The source of t	the release has	s been stopped.							
The impacted area has been secured to protect human health and the environment.									
X Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices									
X All free liquids	and recovera	ble materials have be	en 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 LPC 31 Federal 002 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?	270'			
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 LPC 31 Federal 002 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
270'	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 3, 2021, Etech conducted an initial site assessment. During the site assessment, a visual inspection of the containment area liner was performed to check its integrity and confirm that it remained intact. No holes, tears, or other breaches were discovered during the inspection, and it was determined that the lined containment area was able to contain the majority of the spill. However, a portion of the release overflowed the berm and affected an adjacent, unlined containment area to the north-northwest.

On November 9, 2021, Etech continued the initial site assessment. During the site assessment, two (2) hand-augered soil bores (SP1 and SP2) were advanced to the extent practicable within the release margins in the unlined containment area an effort to determine the vertical extent 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 @ 4' - R, SP2 @ Surface, and SP2 @ 4' - R) were submitted to a certified commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal extent of impacted soil was adequately defined. However, additional vertical delineation was required in the area characterized by sample point SP1.

On November 15, 2021, hand-augered soil bore SP1 was re-entered and advanced to the extent practicable in an effort to further investigate the vertical extent of impacted soil. A delineation soil sample (SP1 @ 7' - R) was collected during advancement of the soil bore and submitted to the laboratory for analysis of BTEX and TPH chloride. Laboratory analytical results indicated additional vertical delineation was required in the area characterized by sample point SP1.

On December 22, 2021, Etech revisted the site. During the site visit, a test trench was advanced in the area characterized by sample point SP1 to further investigate the vertical extent of impacted soil. During the advancement of the test trench, two (2) delineation soil samples (SP1 @ 8' and SP1 @ 9') were collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the vertical extent of impacted soil was adequately defined, and soil was not affected above the NMOCD Closure Criteria beyond seven (7) feet bgs in the area characterized by sample point SP1.

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

5.0 REMEDIATION ACTIVITIES SUMMARY

On January 10, 2022, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards 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 and NMOCD Reclamation Standards.

Etech collected two (2) confirmation soil samples (F3 @ 7' and F4 @ 4') 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 both soil samples. BTEX concentrations were also below the laboratory method detection limit (MDL). TPH concentrations were less than the laboratory MDL in soil sample F3 @ 7' and 68.2 mg/kg in soil sample F4 @ 4'. Chloride concentrations were 16.0 mg/kg in both soil samples.

On January 11, 2022, Etech collected six (6) confirmation soil samples (EW1, WW1, F5 @ 4', F6 @ 4', F7 @ 4', and F8 @ 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, 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, with the exception of soil sample F5 @ 4', which exhibited a TPH concentration of 19.0 mg/kg. Chloride concentrations ranged from less than the laboratory MDL in soil samples EW1, WW1, and F5 @ 4' to 48.0 mg/kg in soil samples F7 @ 4' and F8 @ 4'.

On January 13, 2022, Etech collected seven (7) confirmation soil samples (NW, EW2, SW, WW2, F9 @ 4', F10 @ 4', and F11 @ 2') 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, with the exception of soil sample F9 @ 4', which exhibited a TPH concentration of 40.7 mg/kg. Chloride concentrations ranged from 32.0 mg/kg in soil samples NW, EW2, WW2, and F9 @ 4' to 304 mg/kg in soil sample SW.

On January 14, 2022, Etech collected two (2) confirmation soil samples (F1 @ 10' and F2 @ 2') 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 concentrations were 189 mg/kg in soil sample F1 @ 10', which exceeded the NMOCD Closure Criterion, and less than the laboratory MDL in soil sample F2 @ 2'. TPH concentrations were 13,410 mg/kg in soil sample F1 @ 10', which exceeded the NMOCD Closure Criterion, and 226 mg/kg in soil sample F2 @ 2', which exceeded the NMOCD Reclamation Standard. Chloride concentrations were below the NMOCD Closure Criteria and the laboratory MDL in both soil samples.

On January 18, 2022, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples F1 @ 10' and F2 @ 2'. Etech collected two (2) confirmation soil samples (F1 @ 13' and F2 @ 3') from the floor of the newly excavated areas. The soil samples were submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in both soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations were 32.0 mg/kg in both soil samples.

The final dimensions of the excavated area were approximately 110 feet in length, 10 to 28 feet in width, and two (2) to 13 feet in depth. During the course of remediation activities, Etech transported approximately 400 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 380 cubic yards of locally sourced, non-impacted material 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 is 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 and NMOCD Reclamation Standards was excavated and transported to an NMOCD-permitted disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH, and chloride are below the applicable NMOCD Closure Criteria and 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 LPC 31 Federal 002 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 1 1220 South St. Francis Drive Santa Fe, NM 87505

United States Department of the Interior

Bureau of Land Management 620 E. Greene Street Carlsbad, NM 88220

(Electronic Submission)

Figure 1 Topographic Map

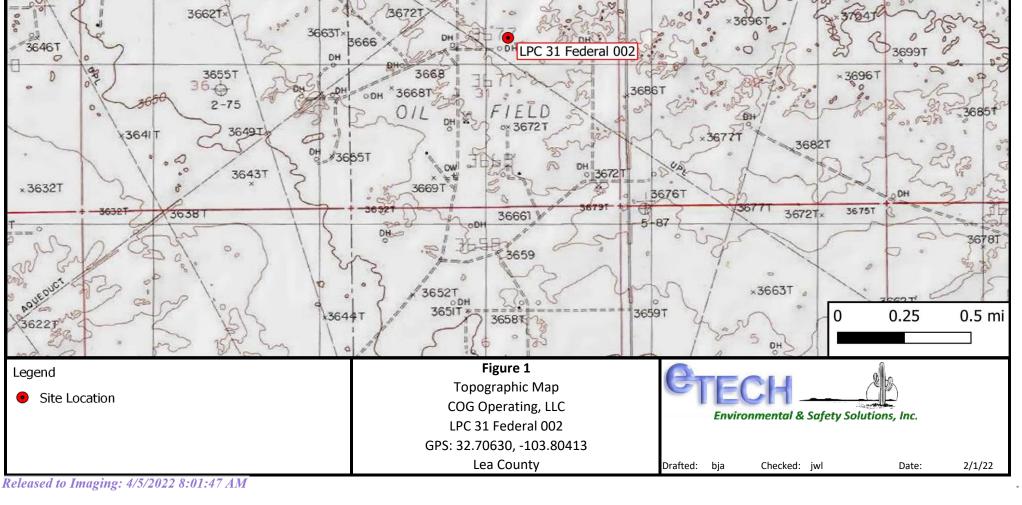


Figure 2 Aerial Proximity Map

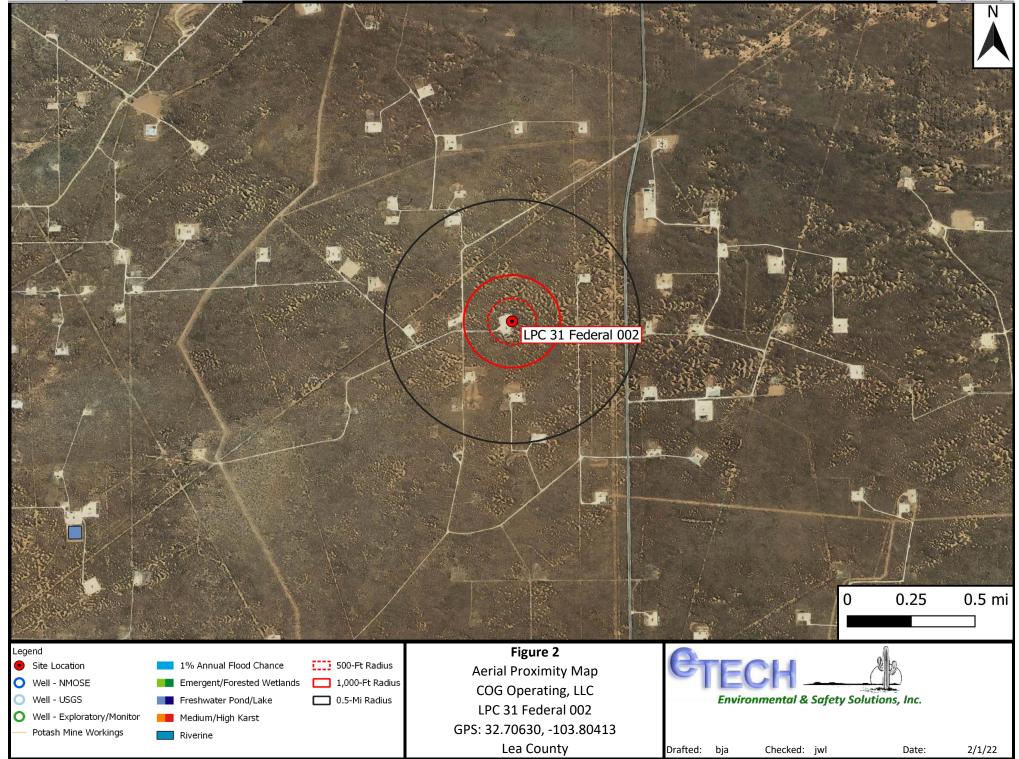


Figure 3 Site & Sample Location Map

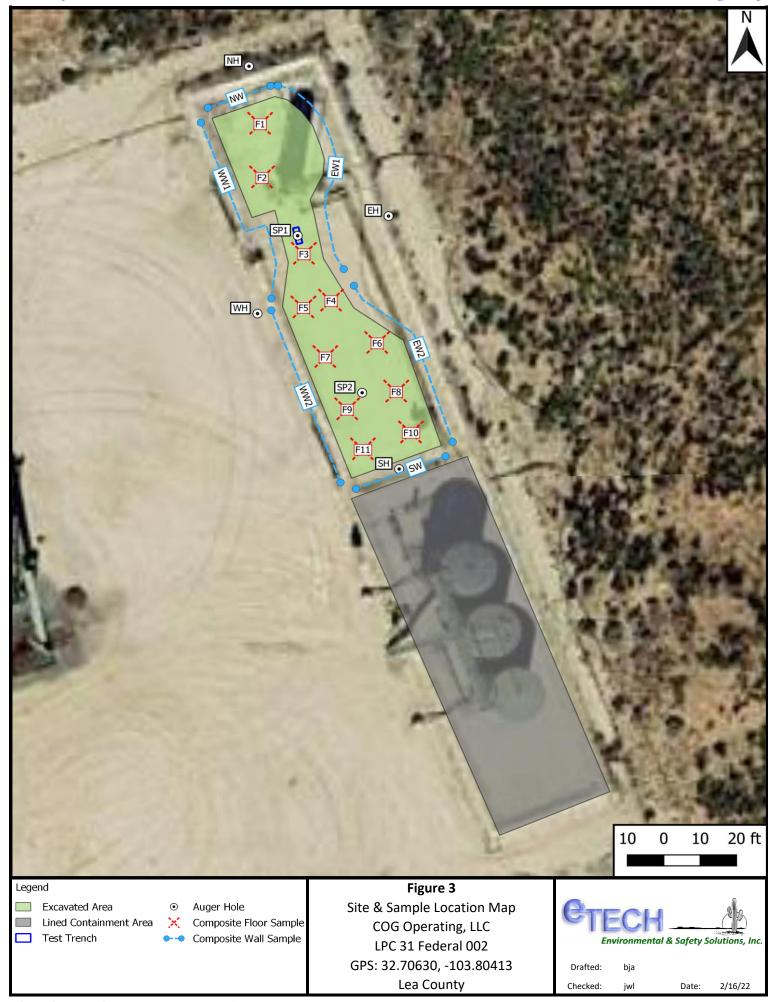
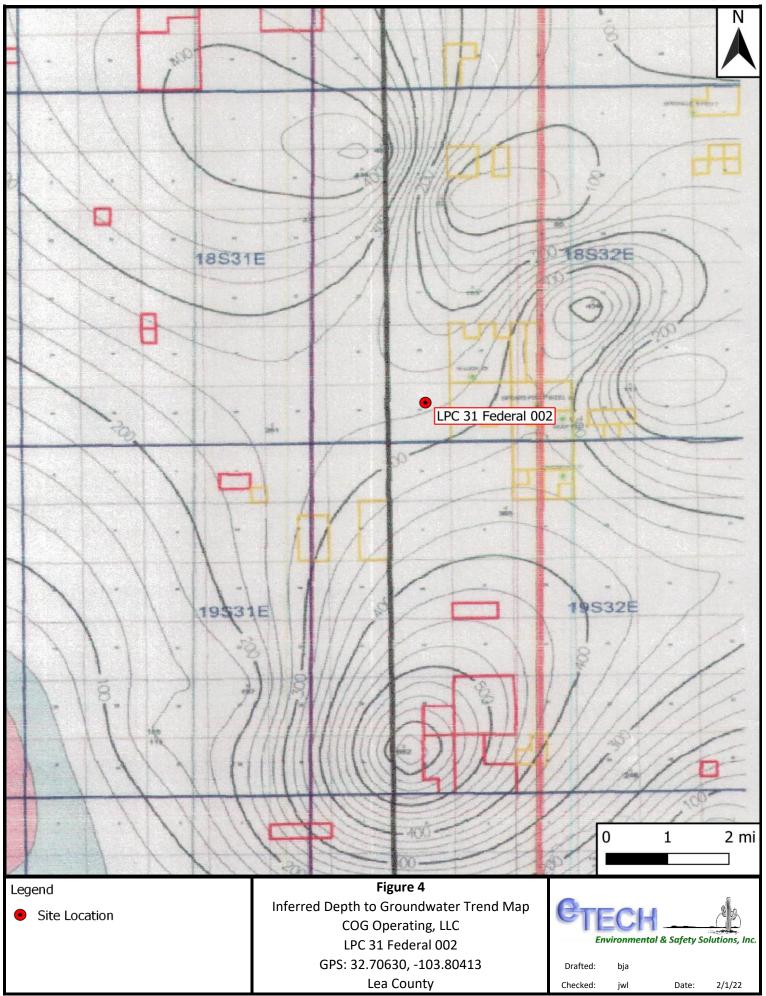


Table 1 Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil COG Operating, LLC LPC 31 Federal 002 NMOCD Ref. #: nAPP2127342251

NMOCD Closure Criteria		10	50	-	-	1,000	-	2,500	20,000		
NMOCD Reclamation Standard		10	50	-	-	-	-	100	600		
				SW 840	SW 846 8021B SW 846 8015M			846 8015M	Ext.	4500 Cl	
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
NH @ Surface	11/9/2021	0	In-Situ	< 0.050	< 0.300	<10.0	10.7	10.7	<10.0	10.7	32.0
NH @ 1'	11/9/2021	1	In-Situ	< 0.050	< 0.300	<10.0	10.1	10.1	<10.0	10.1	<16.0
EH @ Surface	11/9/2021	0	In-Situ	< 0.050	< 0.300	<10.0	15.5	15.5	<10.0	15.5	16.0
EH @ 1'	11/9/2021	1	In-Situ	< 0.050	< 0.300	<10.0	14.8	14.8	<10.0	14.8	32.0
SH @ Surface	11/9/2021	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH @ 1'	11/9/2021	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	<16.0
WH @ Surface	11/9/2021	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	<16.0
WH @ 1'	11/9/2021	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP1 @ Surface	11/9/2021	0	Excavated	4.15	199	2,370	19,800	22,200	3,140	25,300	32.0
SP1 @ 4' - R	11/9/2021	4	Excavated	12.6	413	3,910	7,610	11,500	1,060	12,600	16.0
SP1 @ 7' - R	11/15/2021	7	Excavated	7.60	256	2,280	4,950	7,230	604	7,830	-
SP1 @ 8'	12/22/2021	8	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SP1 @ 9'	12/22/2021	9	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP2 @ Surface	11/9/2021	0	Excavated	5.14	297	3,580	36,300	39,900	5,660	45,500	32.0
SP2 @ 4' - R	11/9/2021	4	Excavated	< 0.050	0.891	20.1	190	210	29.2	239	32.0
NW	1/13/2022	3-11	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	32.0
EW1	1/11/2022	2-11	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW2	1/13/2022	1.5-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	32.0
SW	1/13/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
WW1	1/11/2022	2-11	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WW2	1/13/2022	1-3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	32.0
F1 @ 10'	1/14/2022	10	Excavated	< 0.500	189	2,350	9,550	11,900	1,510	13,400	<16.0
F1 @ 13'	1/18/2022	13	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	32.0
F2 @ 2'	1/14/2022	2	Excavated	< 0.050	< 0.300	<10.0	194	194	32.3	226	<16.0
F2 @ 3'	1/18/2022	3	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	32.0
F3 @ 7'	1/10/2022	7	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
F4 @ 4'	1/10/2022	4	In-Situ	< 0.050	< 0.300	<10.0	68.2	68.2	<10.0	68.2	16.0
F5 @ 4'	1/11/2022	4	In-Situ	< 0.050	< 0.300	<10.0	19.0	19.0	<10.0	19.0	<16.0
F6 @ 4'	1/11/2022	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
F7 @ 4'	1/11/2022	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
F8 @ 4'	1/11/2022	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
F9 @ 4'	1/13/2022	4	In-Situ	< 0.050	< 0.300	<10.0	40.7	40.7	<10.0	40.7	32.0
F10 @ 4'	1/13/2022	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
F11 @ 2'	1/13/2022	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

Appendix A Depth to Groundwater Information





New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

No records found.

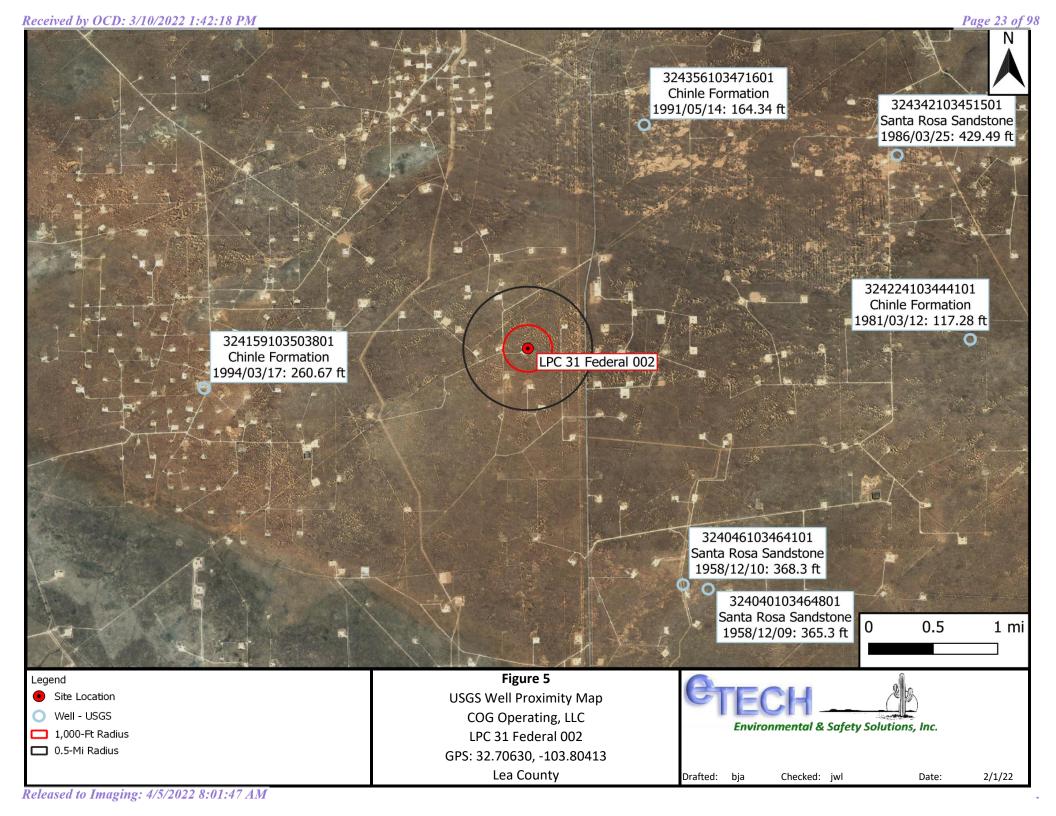
UTMNAD83 Radius Search (in meters):

Easting (X): 612085.26 **Northing (Y):** 3619360.19 **Radius:** 3220

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.

10/15/21 7:40 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Appendix B Field Data



Sample Log

Date:	11/9/21	
Date:	11/9/21	

Project:

LPC 31 Fed 2

Project Number:

Latitude: 15019

32.7063

Longitude:

-103.80413

Sample ID	PID/Odor	Chloride Conc.	GPS
VH@surface	_	136	
NH@1'	-	UZ	
EH@ Surface	_	186	
HQI'	_	112	
H p surface		112	
HB1'		134	
uH @ Surface		134	
VHP1	_	7/[2	
SPI@svrface	Strong		
SPI (Q)'	Some	*	
plad') Aid not go to lab	Some		
P1 (03)	Some		
PIQ41-P	Some	7/12	
P2 @suffue	Strong	-	
SP3@1'\	Some	-	
PDO2' > Did not go to lab	Some	-	
P2@31 /	Some	~	
P2 @4'-R	Some	7(/2	W.
*			
5			1
		N 2	
		2	
			*
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

Appendix C Laboratory Analytical Reports



November 12, 2021

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

RE: LPC 31 FED 2

Enclosed are the results of analyses for samples received by the laboratory on 11/09/21 16:00.

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.

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:

Applymed By MC

Received: 11/09/2021 Reported: 11/12/2021 Project Name: LPC 31 FED 2 Project Number:

15019

Project Location: COG - LEA CO NM Sampling Date: 11/09/2021

Sampling Type: Soil

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

Sample ID: NH @ SURFACE (H213191-01)

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	11/10/2021	ND	2.12	106	2.00	0.652	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	1.38	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.03	101	2.00	1.30	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.22	104	6.00	0.610	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 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	32.0	16.0	11/11/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/11/2021	ND	218	109	200	0.795	
DRO >C10-C28*	10.7	10.0	11/11/2021	ND	203	101	200	0.697	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	76.5	% 44.3-13.	3						
Surrogate: 1-Chlorooctadecane	74.2	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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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: 11/09/2021 Sampling Date: 11/09/2021

Reported: 11/12/2021 Sampling Type: Soil

Project Name: LPC 31 FED 2 Sampling Condition: Cool & Intact
Project Number: 15019 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

Sample ID: NH @ 1' (H213191-02)

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	11/10/2021	ND	2.12	106	2.00	0.652	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	1.38	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.03	101	2.00	1.30	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.22	104	6.00	0.610	
Total BTEX	<0.300	0.300	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 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	11/11/2021	ND	416	104	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	11/11/2021	ND	218	109	200	0.795	
DRO >C10-C28*	10.1	10.0	11/11/2021	ND	203	101	200	0.697	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	71.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	68.0	% 38.9-14	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:

11/09/2021 Reported: 11/12/2021

Project Name: LPC 31 FED 2 Project Number: 15019

Project Location: COG - LEA CO NM Sampling Date: 11/09/2021

Sampling Type: Soil Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: EH @ SURFACE (H213191-03)

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	11/10/2021	ND	2.12	106	2.00	0.652	
Toluene*	<0.050	0.050	11/10/2021	ND	2.04	102	2.00	1.38	
Ethylbenzene*	<0.050	0.050	11/10/2021	ND	2.03	101	2.00	1.30	
Total Xylenes*	<0.150	0.150	11/10/2021	ND	6.22	104	6.00	0.610	
Total BTEX	<0.300	0.300	11/10/2021	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	11/11/2021	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	11/11/2021	ND	218	109	200	0.795	
DRO >C10-C28*	15.5	10.0	11/11/2021	ND	203	101	200	0.697	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	71.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	67.4	% 38.9-14	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:
 11/09/2021
 Sampling Date:
 11/09/2021

 Reported:
 11/12/2021
 Sampling Type:
 Soil

Project Name: LPC 31 FED 2 Sampling Condition: Cool & Intact
Project Number: 15019 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

Sample ID: EH @ 1' (H213191-04)

Analyte Result Reporting Limit Analyzed Method Blank BS % Recommendation Benzene* <0.050 0.050 11/10/2021 ND 2.12 10 Toluene* <0.050 0.050 11/10/2021 ND 2.04 10 Ethylbenzene* <0.050 0.050 11/10/2021 ND 2.03 10 Total Xylenes* <0.150 0.150 11/10/2021 ND 6.22 10 Total BTEX <0.300 0.300 11/10/2021 ND ND 10 Surrogate: 4-Bromofluorobenzene (PID 94.4 % 69.9-140 69.9-140 69.9-140 69.9-140 Method Blank BS % Recommend Analyte Result Reporting Limit Analyzed Method Blank BS % Recommend Chloride 32.0 16.0 11/11/2021 ND 416 10 TPH 8015M Mg/kg Analyzed By: MS	06 2.00 02 2.00 01 2.00 04 6.00	0.652 1.38 1.30 0.610	Qualifier
Toluene* <0.050 0.050 11/10/2021 ND 2.04 10 Ethylbenzene* <0.050 0.050 11/10/2021 ND 2.03 10 Total Xylenes* <0.150 0.150 11/10/2021 ND 6.22 10 Total BTEX <0.300 0.300 11/10/2021 ND Surrogate: 4-Bromofluorobenzene (PID 94.4 % 69.9-140 Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Rec Chloride 32.0 16.0 11/11/2021 ND 416 10 TPH 8015M mg/kg Analyzed By: MS	02 2.00 01 2.00 04 6.00	1.38 1.30 0.610	Qualifier
Ethylbenzene* <0.050 0.050 11/10/2021 ND 2.03 10 Total Xylenes* <0.150 0.150 11/10/2021 ND 6.22 10 Total BTEX <0.300 0.300 11/10/2021 ND Surrogate: 4-Bromofluorobenzene (PID 94.4 % 69.9-140 Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Rec Chloride 32.0 16.0 11/11/2021 ND 416 10 TPH 8015M mg/kg Analyzed By: MS	01 2.00 04 6.00	1.30 0.610	Qualifier
Total Xylenes* < 0.150 0.150 11/10/2021 ND 6.22 10 Total BTEX < 0.300	04 6.00	0.610	Qualifier
Total BTEX <0.300 0.300 11/10/2021 ND Surrogate: 4-Bromofluorobenzene (PID 94.4 % 69.9-140 Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Rec Chloride 32.0 16.0 11/11/2021 ND 416 10 TPH 8015M mg/kg Analyzed By: MS			Qualifier
Surrogate: 4-Bromofluorobenzene (PID 94.4 % 69.9-140 Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Rec Chloride 32.0 16.0 11/11/2021 ND 416 10 TPH 8015M mg/kg Analyzed By: MS	True Value OC	RPD	Qualifier
Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Rec Chloride 32.0 16.0 11/11/2021 ND 416 10 TPH 8015M mg/kg Analyzed By: MS	True Value 200	RPD	Oualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Rec Chloride 32.0 16.0 11/11/2021 ND 416 10 TPH 8015M mg/kg Analyzed By: MS	COVOR True Value OC	RPD	Qualifier
Chloride 32.0 16.0 11/11/2021 ND 416 10 TPH 8015M mg/kg Analyzed By: MS	covery True Value OC	RPD	Qualifier
TPH 8015M mg/kg Analyzed By: MS	covery True Value QC		Qualifici
	04 400	0.00	
Analyte Result Reporting Limit Analyzed Method Blank BS % Rec	covery True Value QC	RPD	Qualifier
GRO C6-C10* <10.0 10.0 11/11/2021 ND 218 10	09 200	0.795	
DRO >C10-C28* 14.8 10.0 11/11/2021 ND 203 10	01 200	0.697	
EXT DRO >C28-C36 <10.0 10.0 11/11/2021 ND			
Surrogate: 1-Chlorooctane 68.6 % 44.3-133			
Surrogate: 1-Chlorooctadecane 65.9 % 38.9-142			

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



11/09/2021

Soil

Analytical Results For:

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

Sampling Date:

Sampling Type:

Received: 11/09/2021 Reported: 11/12/2021

Project Name: LPC 31 FED 2 Sampling Condition: Cool & Intact
Project Number: 15019 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

Sample ID: SH @ SURFACE (H213191-05)

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	11/11/2021	ND	2.02	101	2.00	3.32	
Toluene*	<0.050	0.050	11/11/2021	ND	1.88	94.1	2.00	4.08	
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.89	94.5	2.00	3.09	
Total Xylenes*	<0.150	0.150	11/11/2021	ND	5.78	96.3	6.00	3.11	
Total BTEX	<0.300	0.300	11/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.8	% 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	11/11/2021	ND	416	104	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	11/11/2021	ND	218	109	200	0.795	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	203	101	200	0.697	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	74.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	70.8	% 38.9-14	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:
 11/09/2021
 Sampling Date:
 11/09/2021

 Reported:
 11/12/2021
 Sampling Type:
 Soil

Project Name: LPC 31 FED 2 Sampling Condition: Cool & Intact
Project Number: 15019 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

Sample ID: SH @ 1' (H213191-06)

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	11/11/2021	ND	2.02	101	2.00	3.32	
Toluene*	<0.050	0.050	11/11/2021	ND	1.88	94.1	2.00	4.08	
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.89	94.5	2.00	3.09	
Total Xylenes*	<0.150	0.150	11/11/2021	ND	5.78	96.3	6.00	3.11	
Total BTEX	<0.300	0.300	11/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.8	% 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	11/11/2021	ND	416	104	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	11/11/2021	ND	218	109	200	0.795	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	203	101	200	0.697	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	73.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	69.9	% 38.9-14	2						

Cardinal Laboratories *=Accredited Analyte

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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:
 11/09/2021
 Sampling Date:
 11/09/2021

 Reported:
 11/12/2021
 Sampling Type:
 Soil

Project Name: LPC 31 FED 2 Sampling Condition: Cool & Intact
Project Number: 15019 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

Sample ID: WH @ SURFACE (H213191-07)

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	11/11/2021	ND	2.02	101	2.00	3.32	
Toluene*	<0.050	0.050	11/11/2021	ND	1.88	94.1	2.00	4.08	
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.89	94.5	2.00	3.09	
Total Xylenes*	<0.150	0.150	11/11/2021	ND	5.78	96.3	6.00	3.11	
Total BTEX	<0.300	0.300	11/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 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	11/11/2021	ND	416	104	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	11/11/2021	ND	218	109	200	0.795	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	203	101	200	0.697	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	75.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	72.3	% 38.9-14	2						

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11/09/2021

Soil

Analytical Results For:

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

Received: 11/09/2021 Sampling Date:
Reported: 11/12/2021 Sampling Type:

Project Name: LPC 31 FED 2 Sampling Condition: Cool & Intact
Project Number: 15019 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

Sample ID: WH @ 1' (H213191-08)

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	11/11/2021	ND	2.02	101	2.00	3.32	
Toluene*	0.084	0.050	11/11/2021	ND	1.88	94.1	2.00	4.08	
Ethylbenzene*	<0.050	0.050	11/11/2021	ND	1.89	94.5	2.00	3.09	
Total Xylenes*	<0.150	0.150	11/11/2021	ND	5.78	96.3	6.00	3.11	
Total BTEX	<0.300	0.300	11/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.9	% 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	11/11/2021	ND	416	104	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	11/11/2021	ND	218	109	200	0.795	
DRO >C10-C28*	<10.0	10.0	11/11/2021	ND	203	101	200	0.697	
EXT DRO >C28-C36	<10.0	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	74.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	71.0	% 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: 11/09/2021 Reported: 11/12/2021

LPC 31 FED 2

Project Number: 15019 Project Location: COG - LEA CO NM

Project Name:

Sampling Date: 11/09/2021 Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H213191-09)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.15	0.500	11/11/2021	ND	2.02	101	2.00	3.32	
Toluene*	50.9	0.500	11/11/2021	ND	1.88	94.1	2.00	4.08	
Ethylbenzene*	41.7	0.500	11/11/2021	ND	1.89	94.5	2.00	3.09	
Total Xylenes*	102	1.50	11/11/2021	ND	5.78	96.3	6.00	3.11	
Total BTEX	199	3.00	11/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	136	% 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	11/11/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2370	50.0	11/11/2021	ND	218	109	200	0.795	
DRO >C10-C28*	19800	50.0	11/11/2021	ND	203	101	200	0.697	
EXT DRO >C28-C36	3140	50.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	275	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	580	% 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:

Analyzed By: MS

Received: 11/09/2021 Reported:

11/12/2021 LPC 31 FED 2

Project Number: 15019

Project Location: COG - LEA CO NM Sampling Date: 11/09/2021

Sampling Type: Soil

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

Sample ID: SP 1 @ 4' - R (H213191-10)

Project Name:

BTEX 8021B

DILX GOZID	ıııg.	/ Ng	Alluly20	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	12.6	1.00	11/11/2021	ND	2.02	101	2.00	3.32	
Toluene*	133	1.00	11/11/2021	ND	1.88	94.1	2.00	4.08	
Ethylbenzene*	82.3	1.00	11/11/2021	ND	1.89	94.5	2.00	3.09	
Total Xylenes*	185	3.00	11/11/2021	ND	5.78	96.3	6.00	3.11	
Total BTEX	413	6.00	11/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 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	11/11/2021	ND	416	104	400	0.00	
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*	3910	100	11/11/2021	ND	218	109	200	0.795	
DRO >C10-C28*	7610	100	11/11/2021	ND	203	101	200	0.697	
EXT DRO >C28-C36	1060	100	11/11/2021	ND					
Surrogate: 1-Chlorooctane	210	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	249	% 38.9-14	2						

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

Analytical Results For:

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

11/09/2021

Reported: 11/12/2021

Project Name: LPC 31 FED 2 Project Number: 15019

Received:

Project Location: COG - LEA CO NM Sampling Date: 11/09/2021

Sampling Type: Soil

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

Sample ID: SP 2 @ SURFACE (H213191-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.14	0.500	11/10/2021	ND	2.12	106	2.00	0.652	
Toluene*	70.6	0.500	11/10/2021	ND	2.04	102	2.00	1.38	
Ethylbenzene*	62.1	0.500	11/10/2021	ND	2.03	101	2.00	1.30	
Total Xylenes*	159	1.50	11/10/2021	ND	6.22	104	6.00	0.610	
Total BTEX	297	3.00	11/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	142 %	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	11/11/2021	ND	416	104	400	0.00	
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*	3580	50.0	11/11/2021	ND	218	109	200	0.795	
GKO C0-C10									
DRO >C10-C28*	36300	50.0	11/11/2021	ND	203	101	200	0.697	

Surrogate: 1-Chlorooctadecane 1020 % 38.9-142

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Analytical Results For:

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

Fax To:

 Received:
 11/09/2021
 Sampling Date:
 11/09/2021

 Reported:
 11/12/2021
 Sampling Type:
 Soil

Project Name: LPC 31 FED 2 Sampling Condition: Cool & Intact
Project Number: 15019 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

Sample ID: SP 2 @ 4' - R (H213191-12)

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	11/11/2021	ND	2.05	102	2.00	0.211	
Toluene*	0.074	0.050	11/11/2021	ND	1.98	99.0	2.00	4.11	
Ethylbenzene*	0.154	0.050	11/11/2021	ND	1.94	97.1	2.00	5.64	
Total Xylenes*	0.664	0.150	11/11/2021	ND	5.97	99.6	6.00	4.25	
Total BTEX	0.891	0.300	11/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	11/11/2021	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*	20.1	10.0	11/11/2021	ND	218	109	200	0.795	
DRO >C10-C28*	190	10.0	11/11/2021	ND	203	101	200	0.697	
EXT DRO >C28-C36	29.2	10.0	11/11/2021	ND					
Surrogate: 1-Chlorooctane	77.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	80.5	% 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.
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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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
Project Manager:	P.O. #:	
Address: 2617 West Marland	Company COG	
City: Hobbs State: NM Zip: 88240	Attn:	
Phone #: (575) 264-9884 Fax #:	Address:	
Project #: 15019 Project Owner: COG	City:	
Project Name: LPC 31 Fed 2	State: Zip:	Chloride TPH (8015M) BTEX (8021B)
Project Location: Purch Lan do AtM	Phone #:	8021; 8021;
Project Location: Rural Lea CO, NM Sampler Name: Migue (Parvivez	Fax#:	Chloride TPH (8015M)
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	1
(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	
/ NH @ surface GI X	X 11/9/21	VXX
PLEASE NOTE: Liability and Daniages. Car officin liability and cliquity exclusive remody for entry class unitaring whether based in continuous and cliquits including those for negligence and any other causes whatevower shall be destroad united united united in writing	ract or toot, shall be illmised to the amount paid by the skent to	X Inc
service. In no event shall Cerdinal be liable for incidental or consequental damages, including without limitation, business interruption affinates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such of	rus, loss of une, or loss of profile incurred by client, its subsidic	neses
Relinquished By: Time: Delivered By: (Circle One) 53: 20 55 Sample Cond	Fax Resurence Remark Please &	ult: Yes No Add'l Fax #:
Sampler - UPS - Bus - Other: 4.8c #13 No	res So	

ARDINA 101 Eas

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

Project Name: LPC 31 fed 2 Project Location: Rymal Lun Co, Nim Phone #: Sampler Name: Marrix Preserv. Sampling Lab I.D. Sample I.D. Sample I.D. State: Zip: Phone #: Fax #: State: Zip: Phone #: Fax #: MATRIX PRESERV. SAMPLING MATRIX PRESERV. SAMPLING BY 1000 Jun 10	Company Name: Ete	ch Environmental & Safety Solu	tions, Inc.	BILL TO	ANALYSIS REQUEST
City: Hobbs State: NM Zip: 88240 Attn: Address: City: Project Manne: # 31 Fd. 2 Project Location: Purol. La. Co , NA Sampler Name: # 131 Fd. 2 Project Location: Purol. La. Co , NA Sampler Name: # 143 Fd. 2 Project Location: Purol. La. Co , NA Sampler Name: # 150 Fd. 3 Sampler Na	Project Manager:				
City: Hobbs State: NM Zip: 88240 Attn: Address: City: Project Manne: # 31 Fd. 2 Project Location: Purol. La. Co , NA Sampler Name: # 131 Fd. 2 Project Location: Purol. La. Co , NA Sampler Name: # 143 Fd. 2 Project Location: Purol. La. Co , NA Sampler Name: # 150 Fd. 3 Sampler Na	Address: 2617 West I	Marland		Company COG	
Project 8: 15019 Project Owner: COG Project Name: LA 31 Ftd 2 Project Location: Rymal Luc Co Nin Sampler Name: My Luc Co Nin Lab I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. Sampler I.D. S	City: Hobbs	State: NM	Zip: 88240		
Project Location: Purply Land Land Land Land Land Land Land Land	Phone #: (575) 264-98	884 Fax#:		Address:	
Project Name: From	Project #: 15b19	Project Owne	r: COG	City:	
Lab I.D. Sample I.D. ### SP2 @Surface G I SP2 @S	Project Name: LP	31 Fed 2		State: Zip:	21B
Lab I.D. Sample I.D. ### SP2 @Surface G I SP2 @S	Project Location: 2	real lease, NM		Phone #:	800 original (80 o
Lab I.D. Sample I.D. ### SP2 @Surface G I SP2 @S	Sampler Name:	Jule Kumira		Fax #:	
PLEASE NOTE: Lucidity and Damages. Cardenal's latexity and crient's esculusive remitity for any claim variesing whether based in contract or ton, shall be limited by the almount paid by this client for the inhalps of the almount paid by this client for the inhalps of the almount paid by this client for the inhalps of the almount paid by this client for the inhalps of the almount paid by this client for the inhalps of the almount paid by this client for the inhalps of the almount paid by this client for the inhalps of the almount paid by this client for the inhalps of the almount paid by this client for the inhalps of the almount paid by this client for the inhalps of the almount paid by this client for the inhalps of		0		PRESERV. SAMPLING	
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PLEASE NOTE: Listoliky and Damages. Cardinal's liability and clerifs exclusive remedy for any claim varising whether based in contract or fort, shall be limited to the amount paid by the client for the analysis of the contract or fort and the contract or fort. In the amount paid by the client for the analysis of the contract or fort and the contract or fort. In the amount paid by the client for the analysis of the contract or fort. In the amount paid by the client for the analysis of the contract or fort. In the contract of the contract or fort. In the contract of the contract or fort.	Lab I.D.	Sample I.D.	B OF ITAIN	BASE SOOI R:	
PLEASE NOTE: Listoliky and Damages. Cardena's liabukly and clenifs exclusive nemedy for any claim arising whether based in confract or fort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any officer cleans whitelease for negligence and any officer cleans whitelease therefore, flows or office in order that our complete increase of the survivors. In order that is considerable whitelease whitel	4212101		S)RA CON ROU AST	DATE TIME	
PLEASE NOTE: Listelity and Damages. Cardinal's listelity and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All cardinal february is not all the complete the complete the complete that the deemed validate without marks in writing and recolled by Cardinal within 30 days after completion of the applicable service. In no event shall be incidental to consequent damages, including without limitation, business interruptions, loss of use, or loss of profile incurred by client, its subsidiaries,	11500	as d'a			VVV
PLEASE NOTE: Listelity and Damages. Cardinal's listelity and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All cardinal february is not all the complete the complete the complete that the deemed validate without marks in writing and recolled by Cardinal within 30 days after completion of the applicable service. In no event shall be incidental to consequent damages, including without limitation, business interruptions, loss of use, or loss of profile incurred by client, its subsidiaries,	12500	64-6	GIL	x 11/9/21	YY
analyses. All claims including those for negligence and any other cause wheteover shall be deemed valued unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	1010				
analyses. All claims including those for negligence and any other cause whetever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,					
analyses. All claims including those for negligence and any other cause wheteoever shall be desired waived unless made in writing and received by Cardinal willin 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profile incurred by client, its subsidiaries,					
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anatyses: All claims including those for negligence and any other cente whetecever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,					
service. In no evenit shell Cerdinal be liable for incidental or consequental demages, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries,	PLEASE NOTE: Liability and Damages.	Cardinal's liability and client's exclusive remedy for a	ny claini arising whether based in contrac	ct or tort, shall be imited to the amount paid by the circle	a) for the
affiniates or successors arising out of ar related to the performance of services hereunder by Cardwai, regardless of whether such claim is based upon any of the above stated reasons or otherwise	service. In no event shall Cardinal be list	te for incidental or consequental damages, includin	without limitation, business interruptions	, toes of use, or toes of profile incurred by client, its subs	sidiaries,
Received By: Phone Result: Yes No Add'l Phone #:		/ Date:		/ Phone	Result: Yes No Add'l Phone #:
Fax Result: Yes No Add'l Fax #:	11/10 0	h -9-24	famaka		
Relinquished By: Date: Received By:	Relinquished By	Date:	Reedived By:	example	
Time:	Tromiquionou 29.		7,000,100 -7.		
Please email copy of COC and results to pm@etechenv.com.		V	- 4		e email copy of COC and results to pm@etechenv.com.
Delivered By: (Circle One) 5.3: X-0.5: Sample Condition Cool Intact (Initials)		3.50	OOO! IIIIdat	(Initials)	
Sampler - UPS - Bus - Other: 4.8c #13 No No No.	Sampler - UPS - Bus	Other: 4.8c	#1/3 No No	es 70	



November 19, 2021

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

RE: LPC 31 FED 2

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:
 LPC 31 FED 2

Project Number: 15019

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 (H213276-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.60	0.500	11/17/2021	ND	2.22	111	2.00	8.33	
Toluene*	85.1	0.500	11/17/2021	ND	2.11	106	2.00	7.85	
Ethylbenzene*	49.8	0.500	11/17/2021	ND	2.09	104	2.00	7.73	
Total Xylenes*	114	1.50	11/17/2021	ND	6.32	105	6.00	6.76	
Total BTEX	256	3.00	11/17/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	122 9	% 69.9-14	0						
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*	2280	50.0	11/18/2021	ND	201	101	200	2.96	
DRO >C10-C28*	4950	50.0	11/18/2021	ND	223	111	200	0.335	
EXT DRO >C28-C36	604	50.0	11/18/2021	ND					
Surrogate: 1-Chlorooctane	177 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	189 9	% 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



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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Tech Environm Soel Lowry Markayd							- "											
markeyo). #:											
						Co	mpany:	C	OG									
5	State: NM	Zip:	88	240		Att												
14.9884 F	Fax #:					Ad	dress:											
\$ 15019 F	Project Owner	: 0	05			Cit	y:											
thanks 48	LPC 31	fee	17			Sta	ite:	7	Zip:									
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se for negligence end any other cause if be fiable for incidental or consequent to for related to the performance of s	se whatsoever shall be on tal damages, including services hereunder by C.	seemed without ardinal,	walved i limitation regardle	unless made i n, business in ess of whether	n welling a	nd recei	use, or loss	nal with of profi	hin 30 days after its incurred by c	r completion of t sient, its subsidia asons or otherwi	he applicat ries, se			dii Ohon				
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December 28, 2021

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

RE: LPC 31 FED 2

Enclosed are the results of analyses for samples received by the laboratory on 12/22/21 15:00.

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.

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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:

A ... - L ... - d D. .. MC/

 Received:
 12/22/2021

 Reported:
 12/28/2021

 Project Name:
 LPC 31 FED 2

Project Number: 15019

Project Location: COG - LEA CO NM

Sampling Date: 12/22/2021

Sampling Type: Soil

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

Sample ID: SP 1 @ 8' (H213701-01)

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	12/23/2021	ND	2.13	107	2.00	4.98	
Toluene*	<0.050	0.050	12/23/2021	ND	2.02	101	2.00	5.41	
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.99	99.4	2.00	5.32	
Total Xylenes*	<0.150	0.150	12/23/2021	ND	6.17	103	6.00	5.59	
Total BTEX	<0.300	0.300	12/23/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.7	% 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	12/23/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2021	ND	208	104	200	2.37	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	219	109	200	3.58	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					
Surrogate: 1-Chlorooctane	103	% 62-130)						
Surrogate: 1-Chlorooctadecane	109	% 54.5-13	5						

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 relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kune

RDINAL 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
Project Manager:	P.O. #:	
address: 2617 West Marland	Company COG	
tity: Hobbs State: NM Zip: 88240	Attn: J. Harris	
hone #: (575) 264-9884 Fax #:	Address:	
roject #: 15019 Project Owner: COG	City:	
roject Name: LPC 31 Fed 2	State: Zip:	11 B (N)
roject Location: Rusa la	Phone #:	Chloride TPH (8015M) BTEX (8021B)
ampler Name: Dominic Casagez	Fax #:	1
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	Ch C
GORAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL SLIDGE	ACID/BASE: ICE / COOL OTHER:	
1 SPI 68' 61 V	12/2/21	XXX
1 31.00	Idad	
1 2 000		
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EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contra	or het shall ha lemand to the surveyer and he the chart for	
best in the control of the control o	d received by Cardinal within 30 days effor completion of th	e applicable
issues or successors aroung out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim elinquished By: Date; Received By:		ti de la companya de
13/23/21	Fax Resul	t: Yes No Add'l Fax #:
2:00 m	REMARKS	3:
elinquished By: Date: Received By:	01011	
12-22-21 Januara de 1500 Januara de	Walson Please of	mail copy of COC and results to pm@etechenv.com.
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Sampler - UPS - Bus - Other: 1.8 #1/3 No No	(Initials)	
	bal changes. Please fax written c	hanges to 575-393-2476
Revision 1.0		

Released to Imaging: 4/5/2022 8:01:47 AM



December 28, 2021

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

RE: LPC 31 FED 2

Enclosed are the results of analyses for samples received by the laboratory on 12/22/21 15:00.

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.

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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:
 12/22/2021
 Sampling Date:
 12/22/2021

 Reported:
 12/28/2021
 Sampling Type:
 Soil

Project Name: LPC 31 FED 2 Sampling Condition: Cool & Intact
Project Number: 15019 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

Sample ID: SP 1 @ 9' (H213702-01)

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	12/23/2021	ND	2.13	107	2.00	4.98	
Toluene*	<0.050	0.050	12/23/2021	ND	2.02	101	2.00	5.41	
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.99	99.4	2.00	5.32	
Total Xylenes*	<0.150	0.150	12/23/2021	ND	6.17	103	6.00	5.59	
Total BTEX	<0.300	0.300	12/23/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.7	% 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	12/23/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2021	ND	208	104	200	2.37	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	219	109	200	3.58	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					
Surrogate: 1-Chlorooctane	97.3	% 62-130)						
Surrogate: 1-Chlorooctadecane	103	% 54.5-13	5						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kune

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

RDINAL LABORATORIES

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

ompany Name: Etech Environmental & Safety Solutions, Inc.	BILL TO		ANALYSIS REQUEST
roject Manager:	P.O. #:		
ddress: 2617 West Marland	Company CO		
ity: Hobbs State: NM Zip: 88240	Attn: T. Harris		
hone #: (575) 264-9884 Fax #:	Address:		
roject #: 5019 Project Owner: OG	City:		
roject Name: IPC3 Fed 2	State: Zip:	1B)	
roject Location: RIMALIDA	Phone #:	Chloride TPH (8015M) BTEX (8021B)	
ampler Name: DMIAIC CASAGEZ	Fax #:	H H X	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	1 1 1 1	
#CONTAINERS GROUNDWATER WASTEWATER SOIL SLUDGE			
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2/2			
1200			
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EASE NOTE: Labrity and Damages. Cardnai's labrity and client's exclusive remedy for any claim arrang whether based in contra alyses. All claims including those for negligance and any other cause wherever shall be deemed waived unless made in writing in	t or tort, shall be limited to the amount paid by the client	or the the applicable	
type. In no event shall Cardinat be flaste for incidental or consequental devegae, including without limitation, business interruptions listes or successors arising out of or retailed to the performance of services hereunder by Cardinal, regardless of whether such claim	toss of use, or loss of profits incurred by chent, its subsic	iaries,	
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Van asures 12/20/21	REMAR		
elinquished By: Date: Received By:	DAA		
12-22-21 Paul 18	a Malakal		
Delivered By: (Sircle One) Sample Condi	tion CHECKER BY:	email copy of CO	C and results to pm@etechenv.com.
2.3e C-0.5c Cool Intact	(Initials)		
Sampler - UPS - Bus - Other: 1-8c #13 No N	9 40.		
·	rbal changes. Please fax written	changes to 575-39	93-2476
Revision 1.0			



January 12, 2022

KATHY PURVIS
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: LPC 31 FED 2

Enclosed are the results of analyses for samples received by the laboratory on 01/11/22 8:55.

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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240 Fax To:

Applyand By MC/

 Received:
 01/11/2022

 Reported:
 01/12/2022

 Project Name:
 LPC 31 FED 2

15019

Project Location: COG - LEA CO NM

Sampling Date: 01/10/2022

Sampling Type: Soil

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

Sample ID: F 3 @ 7' (H220103-01)

Project Number:

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	01/11/2022	ND	2.12	106	2.00	3.33	
Toluene*	<0.050	0.050	01/11/2022	ND	2.07	103	2.00	3.51	
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	2.00	99.9	2.00	3.44	
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.02	100	6.00	3.77	
Total BTEX	<0.300	0.300	01/11/2022	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	16.0	16.0	01/11/2022	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	01/11/2022	ND	226	113	200	6.21	
DRO >C10-C28*	<10.0	10.0	01/11/2022	ND	219	110	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	01/11/2022	ND					
Surrogate: 1-Chlorooctane	97.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	99.9	% 59.5-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/11/2022

01/12/2022

Project Name: LPC 31 FED 2 Project Number: 15019

Project Location: COG - LEA CO NM Sampling Date: 01/10/2022

Sampling Type: Soil

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

Sample ID: F 4 @ 4' (H220103-02)

Reported:

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	01/11/2022	ND	2.12	106	2.00	3.33	
Toluene*	<0.050	0.050	01/11/2022	ND	2.07	103	2.00	3.51	
Ethylbenzene*	0.050	0.050	01/11/2022	ND	2.00	99.9	2.00	3.44	
Total Xylenes*	0.234	0.150	01/11/2022	ND	6.02	100	6.00	3.77	
Total BTEX	<0.300	0.300	01/11/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 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	16.0	16.0	01/11/2022	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	01/11/2022	ND	226	113	200	6.21	
DRO >C10-C28*	68.2	10.0	01/11/2022	ND	219	110	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	01/11/2022	ND					
Surrogate: 1-Chlorooctane	84.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.8	% 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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RDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	: Etech Environment	al & Safety Solut	ions	, Inc	D.					8	ILL	. 70						ANA	LYSI	S RI	EQUE	ST		
Project Manage	er: Kathy Purvis							P	0. #	:										T				
Address: 261	7 W Marland							C	omp	any	COG	c/o Jac	qui Harris											
City: Hobbs		State: NM	Zip	: 88	240			A	ttn:															
Phone #: (57	5) 264-9884	Fax #:						A	ddre	ss:				1					1			1 1		1
Project #: 150	119	Project Owner	:	CC	OG			c	ity:					1		_	1							
Project Name:	LPC 31 Fed 2								ate:		Zig	o:			(NE	118								
Project Locatio	n: Rural Lea, NM							Р	hone	#:				Chloride	TPH (8015M)	BTEX (8021B)		1						
Sampler Name:	Dominic Casarez								ax #:					폱	H	X	1					1 1		
FOR LAB USE ONLY						MAT	RIX		_	ESER	٧.	SAMPLI	NG		4	B			1	1				
Lab I.D.	Sample I.	D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE OTHER:	ACID/BASE:	ICE / COOL	Olden.	DATE	TIME											
	F3 @ 7'		C	1		Х				Х	1/	/10/22		X	Х	X								
	F4 @ 4'		C	1	I	X				X	1/	/10/22		X	X	X								
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		Time:									/		RUSH											
	(Circle One) _7.	-8.4°			Co	ool l Yes No	ntact				KED (itlais)	BY:	Please er	mail re	esults	and (сору (of CoC	to pr	n@et	echem	.com.		

FORM-006 Revision 1.0

Received by OCD: 3/10/2022 1:42:18 PM



January 13, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LPC 31 FED 2

Enclosed are the results of analyses for samples received by the laboratory on 01/12/22 8:55.

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 KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240 Fax To:

A ... - L ... - d D. .. MC/

 Received:
 01/12/2022

 Reported:
 01/13/2022

 Project Name:
 LPC 31 FED 2

Project Number: 15019

Project Location: COG - LEA CO NM

Sampling Date: 01/11/2022

Sampling Type: Soil

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

Sample ID: F 5 @ 4' (H220115-01)

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	01/12/2022	ND	2.20	110	2.00	2.81	
Toluene*	<0.050	0.050	01/12/2022	ND	2.09	105	2.00	2.65	
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	2.09	105	2.00	2.19	
Total Xylenes*	<0.150	0.150	01/12/2022	ND	6.52	109	6.00	2.48	
Total BTEX	<0.300	0.300	01/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 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	01/12/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	213	106	200	2.62	
DRO >C10-C28*	19.0	10.0	01/12/2022	ND	221	110	200	0.186	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					
Surrogate: 1-Chlorooctane	98.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	103 9	% 59.5-14	2						

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Celeg & Freene



Analytical Results For:

Etech Environmental & Safety Solutions KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/12/2022 Sampling Date: 01/11/2022 Reported: 01/13/2022 Sampling Type: Soil

Project Name: LPC 31 FED 2 Sampling Condition: Cool & Intact Project Number: 15019 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

Sample ID: F 6 @ 4' (H220115-02)

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	01/12/2022	ND	2.20	110	2.00	2.81	
Toluene*	<0.050	0.050	01/12/2022	ND	2.09	105	2.00	2.65	
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	2.09	105	2.00	2.19	
Total Xylenes*	<0.150	0.150	01/12/2022	ND	6.52	109	6.00	2.48	
Total BTEX	<0.300	0.300	01/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 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	32.0	16.0	01/12/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	213	106	200	2.62	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	221	110	200	0.186	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					
Surrogate: 1-Chlorooctane	105 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	110 9	6 59.5-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/12/2022 Sampling Date: 01/11/2022

Reported: 01/13/2022 Sampling Type: Soil
Project Name: LPC 31 FED 2 Sampling Condition: Cool & Intact

Project Number: 15019 Sample Received By: Tamara Oldaker
Project Location: COG - LEA CO NM

Analyzed By: MS/

mg/kg

Sample ID: F 7 @ 4' (H220115-03)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2022	ND	2.20	110	2.00	2.81	
Toluene*	<0.050	0.050	01/12/2022	ND	2.09	105	2.00	2.65	
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	2.09	105	2.00	2.19	
Total Xylenes*	<0.150	0.150	01/12/2022	ND	6.52	109	6.00	2.48	
Total BTEX	<0.300	0.300	01/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/12/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	213	106	200	2.62	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	221	110	200	0.186	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					
Surrogate: 1-Chlorooctane	99.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	104	% 59.5-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/12/2022 Sampling Date: 01/11/2022 Reported: 01/13/2022 Sampling Type: Soil

Project Name: LPC 31 FED 2 Sampling Condition: Cool & Intact
Project Number: 15019 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

Sample ID: F 8 @ 4' (H220115-04)

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	01/12/2022	ND	2.20	110	2.00	2.81	
Toluene*	<0.050	0.050	01/12/2022	ND	2.09	105	2.00	2.65	
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	2.09	105	2.00	2.19	
Total Xylenes*	<0.150	0.150	01/12/2022	ND	6.52	109	6.00	2.48	
Total BTEX	<0.300	0.300	01/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.2	% 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	48.0	16.0	01/12/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	213	106	200	2.62	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	221	110	200	0.186	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					
Surrogate: 1-Chlorooctane	109	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	115	% 59.5-14	22						

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/12/2022 Reported:

01/13/2022 LPC 31 FED 2

Project Name: Project Number: 15019

Project Location: COG - LEA CO NM Sampling Date: 01/11/2022

Sampling Type: Soil

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

Sample ID: EW 1 (H220115-05)

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	01/12/2022	ND	2.20	110	2.00	2.81	
Toluene*	<0.050	0.050	01/12/2022	ND	2.09	105	2.00	2.65	
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	2.09	105	2.00	2.19	
Total Xylenes*	<0.150	0.150	01/12/2022	ND	6.52	109	6.00	2.48	
Total BTEX	<0.300	0.300	01/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 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	01/12/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	213	106	200	2.62	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	221	110	200	0.186	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					
Surrogate: 1-Chlorooctane	106 %	66.9-13	6						
Surrogate: 1-Chlorooctadecane	111 %	6 59.5-14	2						

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/12/2022 Sampling Date: 01/11/2022 Reported: 01/13/2022 Sampling Type: Soil

Project Name: LPC 31 FED 2 Sampling Condition: Cool & Intact
Project Number: 15019 Sample Received By: Tamara Oldaker

Project Location: COG - LEA CO NM

Sample ID: WW 1 (H220115-06)

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	01/12/2022	ND	2.20	110	2.00	2.81	
Toluene*	<0.050	0.050	01/12/2022	ND	2.09	105	2.00	2.65	
Ethylbenzene*	<0.050	0.050	01/12/2022	ND	2.09	105	2.00	2.19	
Total Xylenes*	<0.150	0.150	01/12/2022	ND	6.52	109	6.00	2.48	
Total BTEX	<0.300	0.300	01/12/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 69.9-14	10						
Chloride, SM4500CI-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	01/12/2022	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	213	106	200	2.62	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	221	110	200	0.186	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					
Surrogate: 1-Chlorooctane	103	% 66.9-13	26						
Surrogate: 1-Chlorooctadecane	107	% 59.5-14	12						

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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RDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

company Name: Etech Environmental & Safety Solutions, Inc.	BILL TO	ANALYSIS REQUEST	
roject Manager:	P.O. #:		T
ddress: 2617 West Marland	Company (
ity: Hobbs State: NM Zip: 88240	Attn: Tacqui Facris		
hone #: (575) 264-9884 Fax #:	Address:		
roject #: 15019 Project Owner: COG	City:		
roject Name: LPC3 Fed 2	State: Zip:	11B)	
roject Location: Rufal La	Phone #:	Chloride TPH (8015M) STEX (8021B)	
ampler Name: MMMicCasare Z	Fax #:	Chick	1
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	4 4 5	
Tap I.D. Sall (G)RAB OR (C)OMP. A CONTAINERS GROUNDWATER WASTEWATER OIL	SLUDGE OTHER: ACIDIBASE: ACIDIBAS	XXX	
3 F7 e4' CII V	11112	XXX	
4 58 04' (1)	111122	XXX	
CII /	1 111/22	AXX	
6 WWI CII	111/22	XXX	
Con Tieter			
EASE NOTE: Liability and Damagee. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contains any serior of the control of the contr	and received by Cardinal within 30 days after completion of t	the applicable	
noce. In no event strait Cardinat be flaste for incidental or consequential demagne, including utilities the flaste for incidental or consequential demagne, including utilities the flast incidential control of an expension services hereunder by Cardinal, regardless of whether such chellinguished By: Date: Received By:		de.	
elinquished By: Date: Received By:	Fax Resu	ult:	
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elinquished By: Date: 12-22 Received By:	M///	12UAN	
Time: 0855	Ma. Sua Please e	ernail copy of COC and results to pm@etechenv.com.	
	tition CHECKED BY:/	, in a second se	
sampler - UPS - Bus - Other: - 8.9 c #113 res No	es To		
	erbal changes. Please fax written o	changes to 575-393-2476	
Revision 1.0			



January 17, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LPC 31 FED 2

Enclosed are the results of analyses for samples received by the laboratory on 01/14/22 8:11.

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 KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240 Fax To:

 Received:
 01/14/2022

 Reported:
 01/17/2022

 Project Name:
 LPC 31 FED 2

Project Number: 15019

Project Location: COG - LEA CO NM

Sampling Date: 01/13/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: F 9 @ 4' (H220160-01)

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	01/14/2022	ND	1.90	94.9	2.00	11.7	
Toluene*	<0.050	0.050	01/14/2022	ND	1.83	91.5	2.00	12.3	
Ethylbenzene*	<0.050	0.050	01/14/2022	ND	1.81	90.3	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/14/2022	ND	5.48	91.4	6.00	11.6	
Total BTEX	<0.300	0.300	01/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	01/14/2022	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	01/15/2022	ND	248	124	200	19.3	
DRO >C10-C28*	40.7	10.0	01/15/2022	ND	232	116	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/15/2022	ND					
Surrogate: 1-Chlorooctane	102	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	98.2	% 59.5-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: MC/

Received: 01/14/2022

01/17/2022

ma/ka

Project Name: LPC 31 FED 2
Project Number: 15019

Project Location: COG - LEA CO NM

Sampling Date: 01/13/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: F 10 @ 4' (H220160-02)

Reported:

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	ea By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2022	ND	1.90	94.9	2.00	11.7	
Toluene*	<0.050	0.050	01/14/2022	ND	1.83	91.5	2.00	12.3	
Ethylbenzene*	<0.050	0.050	01/14/2022	ND	1.81	90.3	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/14/2022	ND	5.48	91.4	6.00	11.6	
Total BTEX	<0.300	0.300	01/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 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	224	16.0	01/14/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2022	ND	248	124	200	19.3	
DRO >C10-C28*	<10.0	10.0	01/15/2022	ND	232	116	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/15/2022	ND					
Surrogate: 1-Chlorooctane	106	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	105	% 59.5-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: MC/

Received: 01/14/2022 Reported: 01/17/2022

Project Name: LPC 31 FED 2
Project Number: 15019

Project Location: COG - LEA CO NM

ma/ka

Sampling Date: 01/13/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: F 11 @ 2' (H220160-03)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2022	ND	1.90	94.9	2.00	11.7	
Toluene*	<0.050	0.050	01/14/2022	ND	1.83	91.5	2.00	12.3	
Ethylbenzene*	<0.050	0.050	01/14/2022	ND	1.81	90.3	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/14/2022	ND	5.48	91.4	6.00	11.6	
Total BTEX	<0.300	0.300	01/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8 % 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	48.0	16.0	01/14/2022	ND	416	104	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	01/15/2022	ND	248	124	200	19.3	
DRO >C10-C28*	<10.0	10.0	01/15/2022	ND	232	116	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/15/2022	ND					
Surrogate: 1-Chlorooctane	111	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	111	% 59.5-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/14/2022 Reported: 01/17/2022

Project Name: LPC 31 FED 2 Project Number: 15019

Project Location: COG - LEA CO NM Sampling Date: 01/13/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: SW (H220160-04)

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	01/14/2022	ND	1.90	94.9	2.00	11.7	
Toluene*	<0.050	0.050	01/14/2022	ND	1.83	91.5	2.00	12.3	
Ethylbenzene*	<0.050	0.050	01/14/2022	ND	1.81	90.3	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/14/2022	ND	5.48	91.4	6.00	11.6	
Total BTEX	<0.300	0.300	01/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 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	304	16.0	01/14/2022	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	01/15/2022	ND	248	124	200	19.3	
DRO >C10-C28*	<10.0	10.0	01/15/2022	ND	232	116	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/15/2022	ND					
Surrogate: 1-Chlorooctane	110 %	66.9-13	6						
Surrogate: 1-Chlorooctadecane	109 9	6 59.5-14	2						

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Analytical Results For:

Etech Environmental & Safety Solutions KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/14/2022 Reported: 01/17/2022

Project Name: LPC 31 FED 2 Project Number: 15019

Project Location: COG - LEA CO NM

Sampling Date: 01/13/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: NW (H220160-05)

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	01/14/2022	ND	1.90	94.9	2.00	11.7	
Toluene*	<0.050	0.050	01/14/2022	ND	1.83	91.5	2.00	12.3	
Ethylbenzene*	<0.050	0.050	01/14/2022	ND	1.81	90.3	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/14/2022	ND	5.48	91.4	6.00	11.6	
Total BTEX	<0.300	0.300	01/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	01/14/2022	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	01/15/2022	ND	248	124	200	19.3	
DRO >C10-C28*	<10.0	10.0	01/15/2022	ND	232	116	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/15/2022	ND					
Surrogate: 1-Chlorooctane	108	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	106	% 59.5-14	22						

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: MC/

Received: 01/14/2022 Reported: 01/17/2022

LPC 31 FED 2

ma/ka

Project Number: 15019

Project Location: COG - LEA CO NM Sampling Date: 01/13/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

Sample ID: WW 2 (H220160-06)

Project Name:

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	01/14/2022	ND	1.90	94.9	2.00	11.7	
Toluene*	<0.050	0.050	01/14/2022	ND	1.83	91.5	2.00	12.3	
Ethylbenzene*	<0.050	0.050	01/14/2022	ND	1.81	90.3	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/14/2022	ND	5.48	91.4	6.00	11.6	
Total BTEX	<0.300	0.300	01/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 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	01/14/2022	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	01/15/2022	ND	248	124	200	19.3	
DRO >C10-C28*	<10.0	10.0	01/15/2022	ND	232	116	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/15/2022	ND					
Surrogate: 1-Chlorooctane	103	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	104	% 59.5-14	2						

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Celeg D. Freene



Analytical Results For:

Etech Environmental & Safety Solutions KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/14/2022

 /2022
 Sampling Date:
 01/13/2022

 /2022
 Sampling Type:
 Soil

Reported: 01/17/2022
Project Name: LPC 31 FED 2
Project Number: 15019

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Project Location: COG - LEA CO NM

Sample ID: EW 2 (H220160-07)

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	01/14/2022	ND	1.90	94.9	2.00	11.7	
Toluene*	<0.050	0.050	01/14/2022	ND	1.83	91.5	2.00	12.3	
Ethylbenzene*	<0.050	0.050	01/14/2022	ND	1.81	90.3	2.00	12.2	
Total Xylenes*	<0.150	0.150	01/14/2022	ND	5.48	91.4	6.00	11.6	
Total BTEX	<0.300	0.300	01/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 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	01/14/2022	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	01/15/2022	ND	248	124	200	19.3	
DRO >C10-C28*	<10.0	10.0	01/15/2022	ND	232	116	200	12.0	
EXT DRO >C28-C36	<10.0	10.0	01/15/2022	ND					
Surrogate: 1-Chlorooctane	103	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101	% 59.5-14	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



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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Celeg D. Freene

101 East Marland, Hobbs, NM 88240

Company Name:	Etech Environmental & Safety Solu		BILL TO			ANALYSIS	REQUEST	
Project Manager:			P.O. #:					
Address: 2617 W	est Mariand		Company COGT					
City: Hobbs	State: NM	Zip: 88240	Attn: Jacqui Hams					
Phone #: (575) 2	64-9884 Fax #:		Address:					
Project #: 150	Project Owne	or COS	City:					
Project Name:	N 31 Fed 2	0.0	State: Zip:	9	1B)			
Project Location:	remal lea		Phone #:	Chloride	TPH (8015M) BTEX (8021B)			
Sampler Name:	Kommic Casarez		Fax #:	Sh.	IX			
FOR LAB USE ONLY	14 minor as a oc	MATRIX	PRESERV. SAMPLING		E E			
		ĕ N	-					
		G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL		1				
Lab I.D.	Sample I.D.	(G)RAB OR (C)C # CONTAINERS GROUNDWATE WASTEWATER SOIL	SOL :					
		# CONTAGE ON TAGE OF THE CONTAGE OF	ACID/BASE OTHER: THER: THER:					
H220160		# CO GRO GRO WAS SOIL						
1	Ed 64,	CI V	11322	X	XX			
2 3 4	F10 64'		1	1	111			
3	FILC2	1111						
4	SW.	1111-1-						
5	NW	- 11111			1111			
9	WW2			1//.	1			
	EWZ	A A	VV	V	VV			
		+			++			
					+++			
PLEASE NOTE: Liability and Da	amages Cardinal's liability and client's exclusive remedy for	any claim arising whether based in contra	act or tort, shall be limited to the amount paid by the client for	ruhe				
service. In no event shall Cardin	ose for negligence and any other cause whatacever shall be all be fable for excidental or consequental damages, including	ng without limitation, business interruption	s, loss of use, or loss of profits incurred by client, its subsidial	ries.				
Relinquished By:	of or related to the performance of services hereunider by Date:	Received By	m is based upon any of the above stated reasons or otherwise. Phone Re	St.	Yes No	Add'l Phone	#:	
1	113/22	CAC	Fax Resul		Yes No	Add'l Fax		
Denc	08:00	0			1/	E/1		
Relinquished By:	Date: 4/22	Received By:	ran		Cul	SIC.		
16	Time: 8:11	Da Meri	Please e	mail co	by of COC a	nd results to o	m@etechenv.com.	
Delivered By:	Circle One) -792	Sample Cond	lition CHECKED BY:		,			
Sampler - UPS -	Bus - Other: - , 5 = -	8.4 Cool Intact	es ATT					
	0	O. No I	No A			470		

FORM-006 Revision 1.0



January 18, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LPC 31 FED 2

Enclosed are the results of analyses for samples received by the laboratory on 01/17/22 8:15.

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 KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 01/17/2022 Reported: 01/18/2022

Project Name: LPC 31 FED 2 Project Number: 15019

Project Location: COG - LEA CO NM

Sampling Date: 01/14/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: F 1 @ 10' (H220172-01)

	kg		d By: MS/					S-04
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.500	0.500	01/17/2022	ND	2.08	104	2.00	0.863	
18.2	0.500	01/17/2022	ND	2.03	101	2.00	0.599	
46.0	0.500	01/17/2022	ND	2.02	101	2.00	0.462	
125	1.50	01/17/2022	ND	6.10	102	6.00	0.327	
189	3.00	01/17/2022	ND					
159 5	% 69.9-14	0						
mg/	kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<16.0	16.0	01/17/2022	ND	416	104	400	0.00	
mg/	kg	Analyze	d By: MS					S-06
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2350	100	01/17/2022	ND	205	103	200	0.726	
9550	100	01/17/2022	ND	216	108	200	0.629	
1510	100	01/17/2022	ND					
280 9	% 66.9-13	6						
213	% 59.5-14	2						
	<0.500 18.2 46.0 125 189 159 9 mg/ Result <16.0 mg/ Result 2350 9550 1510	<0.500 0.500 18.2 0.500 46.0 0.500 125 1.50 189 3.00 159 % 69.9-14 mg/ky Result Reporting Limit <16.0 16.0 mg/ky Result Reporting Limit 2350 100 9550 100 1510 100	Co.500 O.500 O1/17/2022 18.2 O.500 O1/17/2022 46.0 O.500 O1/17/2022 125 1.50 O1/17/2022 189 3.00 O1/17/2022 159 % 69.9-140 mg/ky	<0.500	<0.500	<0.500		<0.500

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Celeg & Frence



Analytical Results For:

Etech Environmental & Safety Solutions KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/17/2022 Reported: 01/18/2022

01/18/2022 LPC 31 FED 2

Project Number: 15019

Project Location: COG - LEA CO NM

Sampling Date: 01/14/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: F 2 @ 2' (H220172-02)

Project Name:

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	01/17/2022	ND	2.08	104	2.00	0.863	
Toluene*	<0.050	0.050	01/17/2022	ND	2.03	101	2.00	0.599	
Ethylbenzene*	0.050	0.050	01/17/2022	ND	2.02	101	2.00	0.462	
Total Xylenes*	<0.150	0.150	01/17/2022	ND	6.10	102	6.00	0.327	
Total BTEX	<0.300	0.300	01/17/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	01/17/2022	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	01/17/2022	ND	205	103	200	0.726	
DRO >C10-C28*	194	10.0	01/17/2022	ND	216	108	200	0.629	
EXT DRO >C28-C36	32.3	10.0	01/17/2022	ND					
Surrogate: 1-Chlorooctane	118	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	113	% 59.5-14	2						

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*=Accredited Analyte

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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.
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 SM4500CI-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

Released to Imaging: 4/5/2022 8:01:47 AM

RDINAL 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
Project Manager:	P.O. #:	
Address: 2617 West Marland	Company COS	
City: Hobbs State: NM Zip: 88240	Attn: Jacque Houss	
Phone #: (575) 264-9884 Fax #:	Address:	
Project #: 5019 Project Owner: COG	City:	
Project Name: LPC3 Ftd 2	State: Zip:	21B 21B
Project Location: Rull lea	Phone #:	Chloride TPH (8015M) 3TEX (8021B)
Sampler Name: NMMIC COSCILET	Fax #:	Chic
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	
Tap I.D. Samble I.D. A (G)RAB OR (C)OMP A CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	ACIDIBASE: ACIDIB	X
PLEASE NOTE: Liability and Dismission. Condess's liability and client's exclusive remedy for any claim ansing whether based in contra analysiss. All claims including those for negligence and any other cause whospever shall be deemed waved unless made in whing a	act or tort, shall be limited to the amount paid by the client for the	he applicable
service. In no event shall Continual be State for incidental or consequental durinages, including without limitation, twanters interruptions affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim	te, loss of use. or loss of profits incurred by chem, its subsidieries im is based upon any of the above stated reasons or otherwise.	а,
Relinquished By: Date: Received By:	Phone Resi Fax Result:	
Time	REMARKS:	0 0 1
Relinquished By: Date: 1/22 Recylived By: Time: 3:15 JOAN J	denson Prease em	hail copy of COC and results to pm@etechenv.com.
Delivered Bur (Circle One) - 122 Sample Condi	lition CHECKED BY	
Sampler - UPS - Bus - Other: - 12.50 Tres FY	es No	

Revision 1.0



January 19, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LPC 31 FED 2

Enclosed are the results of analyses for samples received by the laboratory on 01/18/22 16:40.

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)

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 KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240 Fax To:

 Received:
 01/18/2022

 Reported:
 01/19/2022

 Project Name:
 LPC 31 FED 2

Project Number: 15019

Project Location: COG - LEA CO NM

Sampling Date: 01/18/2022

Sampling Type: Soil

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

Sample ID: F 1 @ 13' (H220203-01)

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	01/19/2022	ND	1.94	96.9	2.00	4.94	
Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37	
Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27	
Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63	
Total BTEX	<0.300	0.300	01/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/19/2022	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	01/19/2022	ND	207	104	200	6.94	
DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	200	100	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					
Surrogate: 1-Chlorooctane	95.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	96.9	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions KATHY PURVIS 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 01/18/2022 Reported: 01/19/2022

01/19/2022 LPC 31 FED 2

Project Name: LPC 31 Project Number: 15019

Project Location: COG - LEA CO NM

Sampling Date: 01/18/2022

Sampling Type: Soil

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

Sample ID: F 2 @ 3' (H220203-02)

Benzene* <0.050 0.050 01/19/2022 ND 1.94 96.9 2.00 4.94	BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Toluene* < 0.050	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene* < 0.050	Benzene*	<0.050	0.050	01/19/2022	ND	1.94	96.9	2.00	4.94	
Total Xylenes*	Toluene*	<0.050	0.050	01/19/2022	ND	1.85	92.7	2.00	6.37	
Total BTEX	Ethylbenzene*	<0.050	0.050	01/19/2022	ND	1.82	90.9	2.00	7.27	
Surrogate: 4-Bromofluorobenzene (PID 100 % 69.9-140 Chloride, SM4500Cl-B mg/kg Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride 32.0 16.0 01/19/2022 ND 416 104 400 0.00 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Total Xylenes*	<0.150	0.150	01/19/2022	ND	5.52	92.0	6.00	6.63	
Chloride, SM4500Cl-B mg/kg Analyzed By: GM Analyte Result Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPD Analyzed By: MS Chloride 32.0 16.0 01/19/2022 ND 416 104 400 0.00 mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPD GRO C6-C10* GRO C6-C10* <10.0 10.0 01/19/2022 ND 207 104 200 6.94 DRO >C10-C28* EXT DRO >C28-C36 <10.0 10.0 01/19/2022 ND	Total BTEX	<0.300	0.300	01/19/2022	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride 32.0 16.0 01/19/2022 ND 416 104 400 0.00 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 01/19/2022 ND 207 104 200 6.94 DRO >C10-C28* <10.0 10.0 01/19/2022 ND 200 100 200 14.7 EXT DRO >C28-C36 <10.0 10.0 01/19/2022 ND Surrogate: 1-Chlorooctane 87.0 % 66.9-136	Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride 32.0 16.0 01/19/2022 ND 416 104 400 0.00 TPH 8015M mg/kg Analyzed By: MS MS MS Recovery True Value QC RPD Analyzed RO C6-C10* <10.0	Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 01/19/2022 ND 207 104 200 6.94 DRO >C10-C28* <10.0 10.0 01/19/2022 ND 200 100 200 14.7 EXT DRO >C28-C36 <10.0 10.0 01/19/2022 ND Surrogate: 1-Chlorooctane 87.0 % 66.9-136	Chloride	32.0	16.0	01/19/2022	ND	416	104	400	0.00	
GRO C6-C10* <10.0 10.0 01/19/2022 ND 207 104 200 6.94 DRO >C10-C28* <10.0 10.0 01/19/2022 ND 200 100 200 14.7 EXT DRO >C28-C36 <10.0 10.0 01/19/2022 ND Surrogate: 1-Chlorooctane 87.0% 66.9-136	TPH 8015M	mg,	/kg	Analyze	d By: MS					
DRO >C10-C28* < 10.0 10.0 01/19/2022 ND 200 100 200 14.7 EXT DRO >C28-C36 <10.0 10.0 01/19/2022 ND Surrogate: 1-Chlorooctane 87.0% 66.9-136	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 <10.0 10.0 01/19/2022 ND Surrogate: 1-Chlorooctane 87.0 % 66.9-136	GRO C6-C10*	<10.0	10.0	01/19/2022	ND	207	104	200	6.94	
Surrogate: 1-Chlorooctane 87.0 % 66.9-136	DRO >C10-C28*	<10.0	10.0	01/19/2022	ND	200	100	200	14.7	
•	EXT DRO >C28-C36	<10.0	10.0	01/19/2022	ND					
Surrogate: 1-Chlorooctadecane 88.7 % 59.5-142	Surrogate: 1-Chlorooctane	87.0	% 66.9-13	6						
	Surrogate: 1-Chlorooctadecane	88.7	% 59.5-14	22						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

101 East Marland, Hobbs, NM 88240

Company Name	Etech Environmental & Safety Solution		Bi	LL TO				ANALYSI	S REQUES	ST	
Project Manage	r:		P.O. #:					T			T
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City: Hobbs	State: NM	Zip: 88240		u Harris							
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FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING		-	00				
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FORM-006 Revision 1.0 † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Appendix D Photographic Log

Photo Number:

1
Photo Direction:
East
Photo
Description:

View of the affected area in the lined containment.



Photo Number:
2
Photo Direction:
East
Photo
Description:

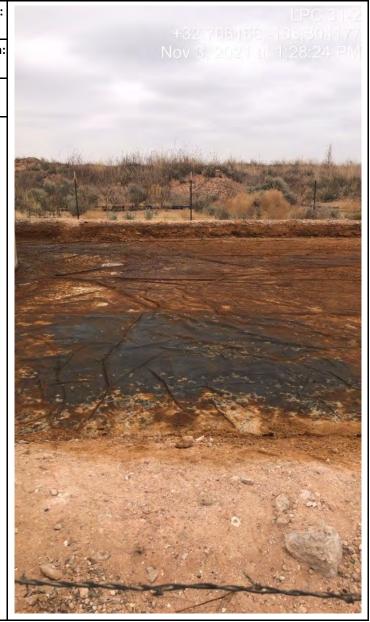


Photo Number: 3

Photo Direction: Southeast

Photo Description:

View of the affected area in the lined containment.



Photo Number:

Photo Direction: North

> Photo Description:



Photo Number: 5 Photo Direction: East-Northeast Photo Description:

View of the affected area in the lined containment.

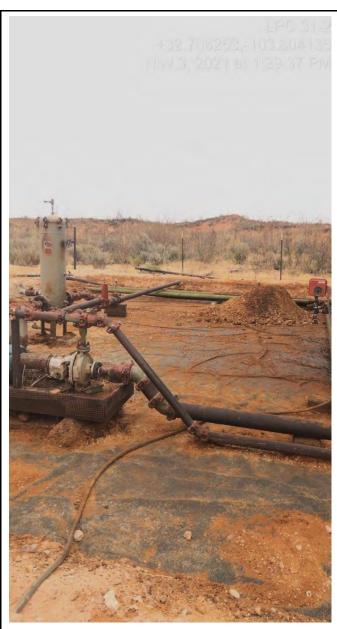


Photo Number:
6
Photo Direction:
South-Southeast
Photo

Description:



Photo Number:
7
Photo Direction:
Southeast
Photo
Description:

View of the affected area in the lined containment.



Photo Number: 8 Photo Direction: South-Southeast Photo Description:



Photo Number: 9

Photo Direction: Northeast

Photo Description:

View of the affected area in the unlined containment.



Photo Number: 10 Photo Direction:

Northeast

Photo Description:





Photo Number:
11
Photo Direction:
Northeast
Photo
Description:

View of the affected area in the unlined containment.



Photo Number:
12
Photo Direction:
North-Northeast
Photo
Description:



Photo Number:

13

Photo Direction: North-Northwest

Photo Description:

View of the excavated area.



Photo Number:

14

Photo Direction: South-Southeast

Photo Description:

•

View of the excavated area.



Photo Number:

15

Photo Direction: South-Southeast

Photo Description:

View of the excavated area.



Photo Number:

16

Photo Direction:

Southeast

Photo Description:

View of the remediated area following backfill and regrading.



District I
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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 89285

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	89285
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Closure approved.	4/5/2022