

Incident ID	nAPP2110643330
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>570</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

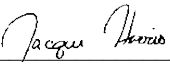
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico  
Oil Conservation Division

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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: Environmental Coordinator  
Signature:  Date: 7/7/2021  
email: jacqui.harris@conocophillips.com Telephone: (575)745-1807

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	nAPP2110643330
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## Remediation Plan

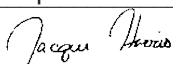
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

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

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

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Jacqui Harris Title: Environmental Coordinator  
Signature:  Date: 7/7/2021  
email: jacqui.harris@conocophillips.com Telephone: (575)745-1807

**OCD Only**

Received by: Chad Hensley Date: 08/17/2021

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

Signature:  Date: 08/17/2021



## Remediation Summary & Deferral Request

### COG Operating, LLC Huckleberry 22 State Com CTB

Lea County, New Mexico  
Unit Letter "N", Section 22, Township 21 South, Range 33 East  
Latitude 32.457862 North, Longitude 103.562545 West  
NMOCD Reference No. nAPP2110643330

Prepared By:

**Etech Environmental & Safety Solutions, Inc.**  
3100 Plains Highway  
Lovington, New Mexico 88260

  
\_\_\_\_\_  
Ben J. Arguijo  
\_\_\_\_\_  
Joel W. Lowry

Midland • San Antonio • Lubbock • Lovington • Lafayette

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## 2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	570'		
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
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Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

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 Site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
570'	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
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	-
	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 REMEDIATION ACTIVITIES SUMMARY

On May 18, 2021, remediation activities commenced at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and a Hach Quantab® chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The floor and sidewalls 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/or NMOCD Reclamation Standard, or to the extent practicable.

On May 19, 2021, Etech collected three (3) composite confirmation soil samples (FL 1 @ 5', FL 2 @ 5', and FL 3 @ 5') from the floor of the excavated area. The soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples.

Etech also advanced three (3) hand-augered soil bores (DEF 1, DEF 2, and DEF 3) to characterize the affected area adjacent to and beneath the on-site transfer pumps and associated piping, appurtenances, and electrical facilities requiring deferral of remediation. During the advancement of the hand-augered soil bores, a total of six (6) soil samples (DEF 1 @ 6", DEF 1 @ 5', DEF 2 @ 6", DEF 2 @ 5', DEF 3 @ 6", and DEF 3 @ 5') were collected and field-screened utilizing olfactory/visual senses and/or a chloride test kit. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond five (5) feet below ground surface (bgs) in the areas characterized by auger holes DEF 1, DEF 2, and DEF 3.

On May 20, 2021, Etech collected seven (7) composite confirmation soil samples (SW 1, WW 1, WW 2, and FL 4 @ 5' through FL 7 @ 5') 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 and/or NMOCD Reclamation Standard in each of the submitted soil samples.

Etech also advanced three (3) hand-augered soil bores (NHD, EHD, and WHD) to further investigate the horizontal extent of the affected area requiring deferral of remediation. During the advancement of the hand-augered soil bores, a total of six (6) soil samples (NHD @ Surface, NHD @ 1', EHD @ Surface, EHD @ 1', WHD @ Surface, and WHD @ 1') were collected and field-screened utilizing olfactory/visual senses and/or a chloride test kit. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard in the areas characterized by auger holes NHD, EHD, and WHD; and the horizontal extent of the area to be deferred was adequately defined.

On May 24, 2021, Etech collected eight (8) composite confirmation soil samples (EW 1 and FL 8 @ 5' through FL 14 @ 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 and/or NMOCD Reclamation Standard in each of the submitted soil samples.

On May 25, 2021, Etech collected two (2) composite confirmation soil samples (FL 15 @ 5' and FL 16 @ 5') 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 and/or NMOCD Reclamation Standard in each of the submitted soil samples.

On May 26, 2021, Etech collected two (2) composite confirmation soil samples (FL 17 @ 2' and FL 18 @ 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, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples.

On May 27, 2021, Etech collected four (4) composite confirmation soil samples (FL 19 @ 5' through FL 22 @ 5') 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 and/or NMOCD Reclamation Standard in each of the submitted soil samples.

On May 28, 2021, Etech collected eight (8) composite confirmation soil samples (FL 23 @ 4' through FL 30 @ 5') 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 and/or NMOCD Reclamation Standard in each of the submitted soil samples.

On June 2, 2021, Etech collected four (4) composite confirmation soil samples (FL 31 @ 4' through FL 34 @ 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, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples.

On June 3, 2021, Etech collected four (4) composite confirmation soil samples (FL 35 @ 4' through FL 38 @ 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 and/or NMOCD Reclamation Standard in each of the submitted soil samples.

On June 4, 2021, Etech collected 12 composite confirmation soil samples (SW 2, WW 3, FL 39 @ 4' through FL 48 @ 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 and/or NMOCD Reclamation Standard in each of the submitted soil samples.

On June 7, 2021, Etech collected six (6) composite confirmation soil samples (NW 1, NW 2, EW 2, EW 3, SW 3, and SW 4) from the sidewalls 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 and/or NMOCD Reclamation Standard in each of the submitted soil samples.

The final dimensions of the excavated area were approximately 120 to 128 feet in length, 15 to 158 feet in width, and two (2) to five (5) feet in depth. During the course of remediation activities, approximately 1,600 cubic yards of impacted soil was excavated and transported to an NMOCD-permitted surface waste facility for disposal.

The extent of the excavated area, the area to be deferred, and the locations of the composite confirmation soil samples and auger holes are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. General photographs of the Site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D.

## **5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN**

The release was limited to the production pad of an active tank battery. 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 remediation, reclamation, and revegetation will be conducted upon decommissioning and abandonment of the facility.

## 6.0 DEFERRAL REQUEST

Remediation activities were conducted in accordance with applicable NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated to the extent practicable and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX and TPH are below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standard. Remediation of impacted soil affected above the NMOCD Closure Criteria remaining in-situ beneath the on-site transfer pumps and associated pipes, appurtenances, and electrical facilities will be completed upon decommissioning and abandonment of the tank battery facility, in accordance with Section 19.15.29.13 NMAC.

Based on laboratory analytical results and field activities conducted to date, Etech recommends COG Operating, LLC, provide copies of this *Remediation Summary & Deferral Request* to the appropriate agencies and cease remediation activities at the Site.

## 7.0 LIMITATIONS

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

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

## **8.0 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*

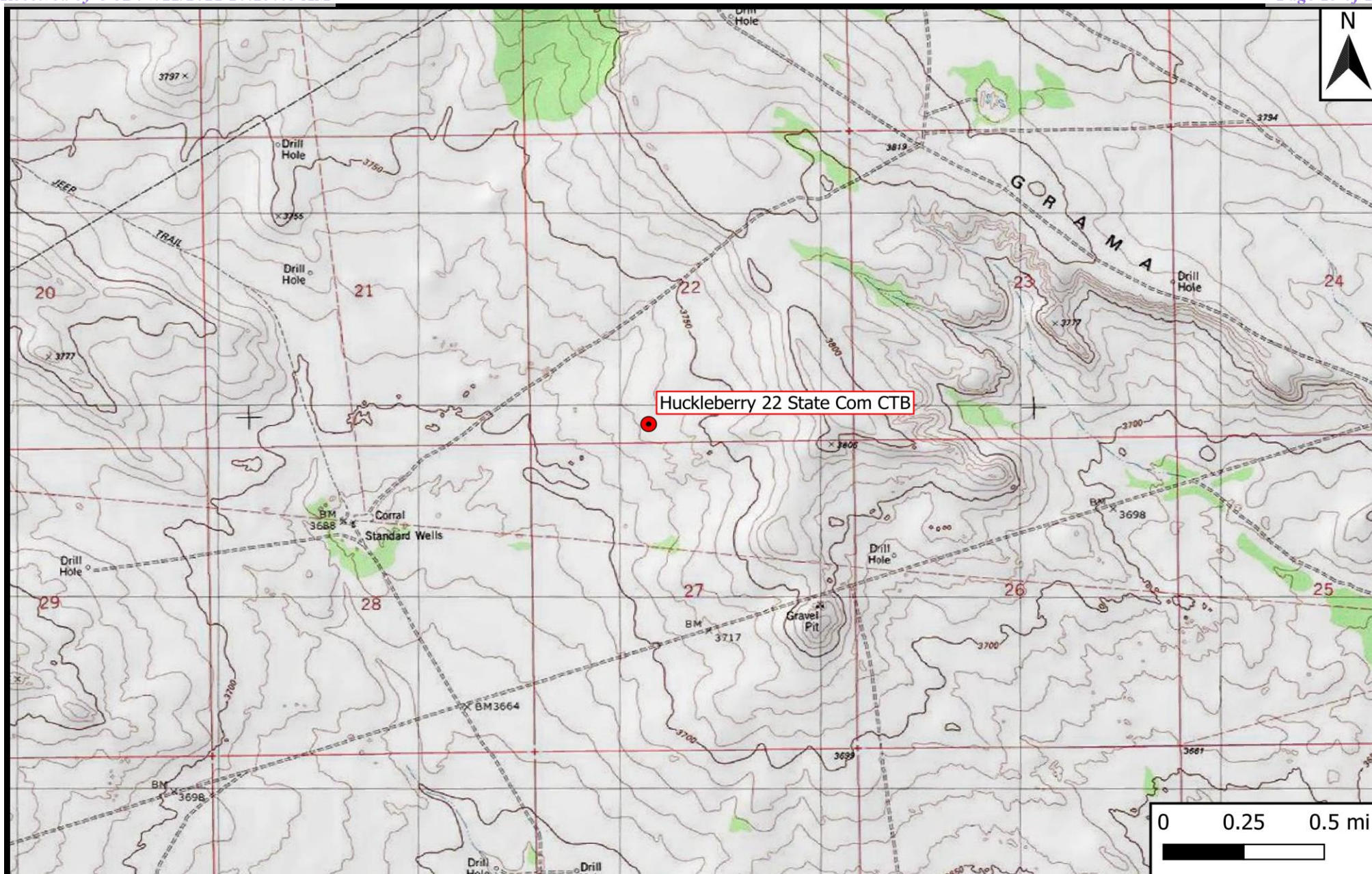
***Hobbs Field Office***

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

*(Electronic Submission)*

# **Figure 1**

## **Topographic Map**



## Legend

- Site Location

## Figure 1

Topographic Map  
 COG Operating, LLC  
 Huckleberry 22 State Com CTB  
 GPS: 32.457862, -103.562545  
 Lea County

**ETECH**  
 Environmental & Safety Solutions, Inc.

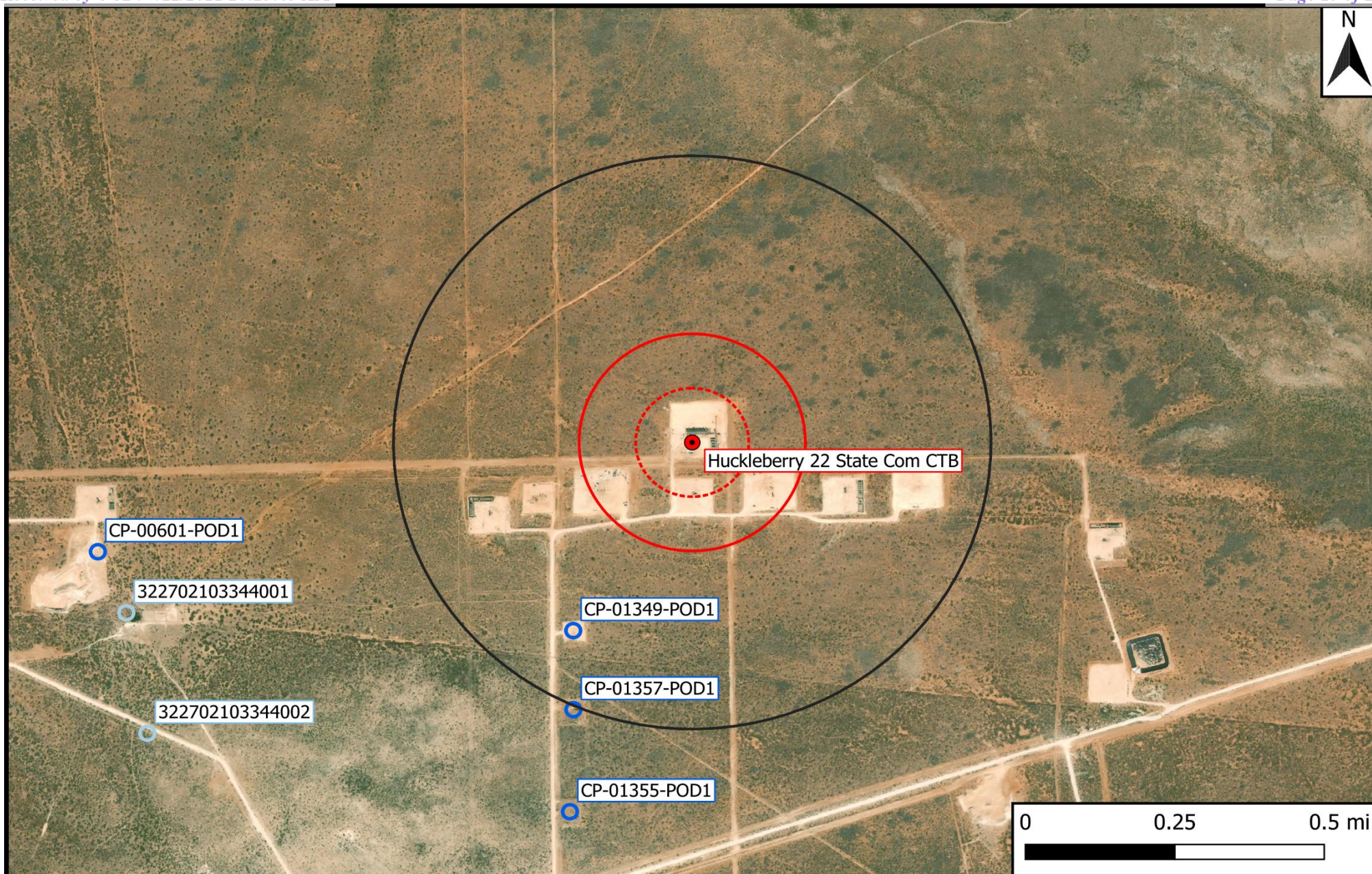
Drafted: bja

Checked: jwl

Date: 7/1/21

## **Figure 2**

### **Aerial Proximity Map**



## Legend

● Site Location	1% Annual Flood Chance	500-Ft Radius
○ Well - NMOSE	Emergent/Forested Wetlands	1,000-Ft Radius
○ Well - USGS	Freshwater Pond/Lake	0.5-Mi Radius
○ Well - Investigative/Monitor	Medium/High Karst	
— Potash Mine Workings	Riverine	

Figure 2

Aerial Proximity Map  
 COG Operating, LLC  
 Huckleberry 22 State Com CTB  
 GPS: 32.457862, -103.562545  
 Lea County



Drafted: bja

Checked: jwl

Date: 7/1/21

## **Figure 3**

### **Site & Sample Location Map**

**Legend**

- Area to be Deferred
- Auger Hole
- Composite Floor Sample
- Deferral Sample
- Composite Wall Sample

**Figure 3**

Site & Sample Location Map  
 COG Operating, LLC  
 Huckleberry 22 State Com CTB  
 GPS: 32.457862, -103.562545  
 Lea County

**ETECH**  
 Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: jwl

Date: 7/1/21

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

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**COG Operating, LLC**  
**Huckleberry 22 State Com CTB**  
**NMOCD Ref. #: nAPP2110643330**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
Delineation & Deferral Samples											
DEF 1 @ 6"	5/19/2021	0.5	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,600
DEF 1 @ 5'	5/19/2021	5	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
DEF 2 @ 6"	5/19/2021	0.5	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,000
DEF 2 @ 5'	5/19/2021	5	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
DEF 3 @ 6"	5/19/2021	0.5	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,100
DEF 3 @ 5'	5/19/2021	5	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
NHD @ Surface	5/20/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NHD @ 1'	5/20/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
EHD @ Surface	5/20/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EHD @ 1'	5/20/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WHD @ Surface	5/20/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WHD @ 1'	5/20/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
Excavation Samples											
NW 1	6/7/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 2	6/7/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 1	5/24/2021	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
EW 2	6/7/2021	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 3	6/7/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 1	5/20/2021	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 2	6/4/2021	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 3	6/7/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 4	6/7/2021	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 1	5/20/2021	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WW 2	5/20/2021	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 3	6/4/2021	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 1 @ 5'	5/19/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 2 @ 5'	5/19/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 3 @ 5'	5/19/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 4 @ 5'	5/20/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 5 @ 5'	5/20/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 6 @ 5'	5/20/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 7 @ 5'	5/20/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 8 @ 5'	5/24/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 9 @ 5'	5/24/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 10 @ 3'	5/24/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 11 @ 3'	5/24/2021	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 12 @ 5'	5/24/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 13 @ 5'	5/24/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 14 @ 4'	5/24/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	816
FL 15 @ 5'	5/25/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0

Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**  
**COG Operating, LLC**  
**Huckleberry 22 State Com CTB**  
**NMOCD Ref. #: nAPP2110643330**

NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL 16 @ 5'	5/25/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 17 @ 2'	5/26/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 18 @ 2'	5/26/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 19 @ 5'	5/27/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 20 @ 5'	5/27/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FL 21 @ 5'	5/27/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 22 @ 5'	5/27/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 23 @ 4'	5/28/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 24 @ 4'	5/28/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 25 @ 5'	5/28/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 26 @ 5'	5/28/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 27 @ 5'	5/28/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 28 @ 5'	5/28/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 29 @ 5'	5/28/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 30 @ 5'	5/28/2021	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 31 @ 4'	6/2/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 32 @ 4'	6/2/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 33 @ 2'	6/2/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 34 @ 2'	6/2/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 35 @ 4'	6/3/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 36 @ 4'	6/3/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FL 37 @ 4'	6/3/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 38 @ 4'	6/3/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 39 @ 4'	6/4/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 40 @ 4'	6/4/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 41 @ 4'	6/4/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 42 @ 4'	6/4/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 43 @ 4'	6/4/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 44 @ 4'	6/4/2021	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 45 @ 2'	6/4/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 46 @ 2'	6/4/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 47 @ 2'	6/4/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 48 @ 2'	6/4/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0

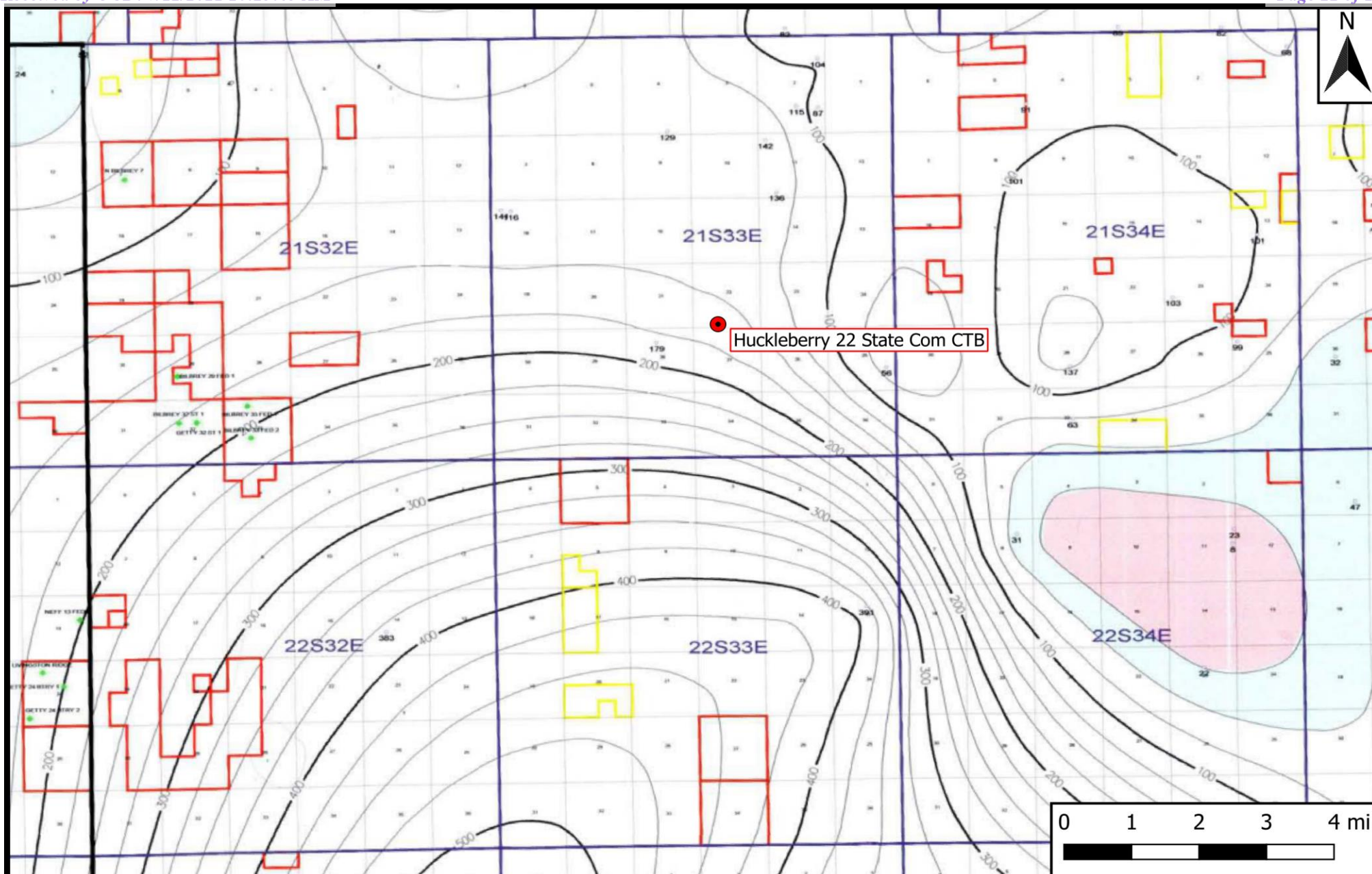
Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

## **Appendix A**

### **Depth to Groundwater Information**



## Legend

- Site Location

## Figure 4

Inferred Depth to Groundwater Trend Map  
 COG Operating, LLC  
 Huckleberry 22 State Com CTB  
 GPS: 32.457862, -103.562545  
 Lea County

**ETECH**  
 Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: jwl

Date: 7/1/21



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">CP 01349 POD1</a>	CP	LE		2	3	1	27	21S	33E	634782	3591569	617	1188	572	616
<a href="#">CP 01357 POD1</a>	CP	LE		4	3	1	27	21S	33E	634782	3591347	815	1286	578	708
<a href="#">CP 01355 POD1</a>	CP	LE		2	1	3	27	21S	33E	634773	3591061	1087	1192	582	610

Average Depth to Water: **577 feet**

Minimum Depth: **572 feet**

Maximum Depth: **582 feet**

Record Count: 3

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 635102.31

**Northing (Y):** 3592097.73

**Radius:** 1610

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WATER COLUMN/ AVERAGE  
DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
CP 01349	POD1	2	3	1	27	21S	33E	634782	3591569

x

<b>Driller License:</b>	421	<b>Driller Company:</b>	GLENN'S WATER WELL SERVICE
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<b>Driller Name:</b>	GLENN, CLARK A."CORKY"
----------------------	------------------------

<b>Drill Start Date:</b>	07/12/2014	<b>Drill Finish Date:</b>	07/18/2014	<b>Plug Date:</b>	
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<b>Log File Date:</b>	08/04/2014	<b>PCW Rcv Date:</b>	04/27/2017	<b>Source:</b>	Artesian
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<b>Pump Type:</b>	SUBMER	<b>Pipe Discharge Size:</b>	3	<b>Estimated Yield:</b>	
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<b>Casing Size:</b>	7.00	<b>Depth Well:</b>	1188 feet	<b>Depth Water:</b>	572 feet
---------------------	------	--------------------	-----------	---------------------	----------

x

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	990	1188	Sandstone/Gravel/Conglomerate

x

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	721	1188

x

<b>Meter Number:</b>	18275	<b>Meter Make:</b>	BLANCETT
<b>Meter Serial Number:</b>	092413719	<b>Meter Multiplier:</b>	1.0000
<b>Number of Dials:</b>	9	<b>Meter Type:</b>	Diversion
<b>Unit of Measure:</b>	Barrels 42 gal.	<b>Return Flow Percent:</b>	
<b>Usage Multiplier:</b>		<b>Reading Frequency:</b>	Monthly

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
06/02/2015	2015	616318	A	ap	beginning water report	0
06/27/2015	2015	654758	A	ap		49.547
07/31/2015	2015	654758	A	ap		0
08/31/2015	2015	658147	A	ap		4.368
09/30/2015	2015	658147	A	ap		0
10/31/2015	2015	658147	A	ap		0
11/30/2015	2015	658147	A	ap		0
04/01/2016	2016	0	A	ap	meter was reset	0
04/30/2016	2016	56	A	ap		0.072
06/30/2016	2016	45448	A	ap		58.507
07/27/2016	2016	93651	A	ap		62.130
08/04/2016	2016	0	A	ap		0
08/04/2016	2016	93651	A	ap	replacing with new meter	0
09/01/2016	2016	59651	A	ap		768.861
09/30/2016	2016	59685	A	ap		0.438
10/31/2016	2016	59685	A	ap		0
11/29/2016	2016	123327	A	ap		820.303
12/31/2016	2016	202400	A	ap		1019.198
02/01/2017	2017	222525	A	ap		259.398
02/27/2017	2017	0	A	ap	reset meter again second time	0
02/27/2017	2017	227465	A	ap		63.673

03/01/2017	2017	4377	A	ap	56.417
03/31/2017	2017	63670	A	ap	764.247
05/01/2017	2017	110035	A	ap	597.614
05/31/2017	2017	121714	A	ap	150.534
07/31/2017	2017	179828	A	ap	749.050
10/31/2017	2017	212568	A	ap	421.997
11/30/2017	2017	212568	A	ap	0
11/30/2017	2017	0	A	ap new meter	0
12/30/2017	2017	381088	A	ap	4911.968
01/30/2018	2018	437540	A	ap	727.628
02/28/2018	2018	489981	A	ap	675.929
03/30/2018	2018	547614	A	ap	742.851
04/30/2018	2018	599646	A	ap	670.657
06/01/2018	2018	653059	A	ap	688.458
06/29/2018	2018	705152	A	ap	671.444
07/31/2018	2018	740396	A	ap	454.271
08/30/2018	2018	797263	A	ap	732.977
09/30/2018	2018	846832	A	ap	638.911
11/30/2018	2018	954599	A	ap	1389.044
01/02/2019	2018	1007303	A	RPT	6.793
02/01/2019	2019	1020346	A	RPT	1.681
08/01/2019	2019	1424822	A	RPT	52.134
09/01/2019	2019	1479315	A	RPT	7.024
09/30/2019	2019	1532079	A	RPT	6.801
10/31/2019	2019	1594691	A	RPT	8.070
11/30/2019	2019	1649180	A	RPT	7.023
12/31/2019	2019	1680307	A	RPT	4.012
02/01/2020	2020	1725618	A	RPT	5.840
03/01/2020	2020	1769757	A	RPT	5.689
04/01/2020	2020	1795050	A	RPT	3.260
05/01/2020	2020	1795050	A	RPT	0
06/01/2020	2020	1827737	A	RPT	4.213
08/01/2020	2020	1890759	A	RPT	8.123
09/01/2020	2020	1911876	A	RPT	2.722
10/01/2020	2020	1921973	A	RPT	1.301
10/31/2020	2020	1921973	A	WEB	0 X
11/30/2020	2020	1936489	A	WEB	1.871 X
12/31/2020	2020	1985989	A	WEB	6.380 X

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**YTD Meter Amounts:	Year	Amount
	2015	53.915
	2016	2729.509
	2017	7974.898
	2018	7398.963
	2019	86.745
	2020	39.399

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POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
CP 01357 POD1		4 3 1	27	21S	33E	634782	3591347

**Driller License:** 421 **Driller Company:** GLENN'S WATER WELL SERVICE

**Driller Name:** GLENN, CLARK A."CORKY"

<b>Drill Start Date:</b> 08/16/2014	<b>Drill Finish Date:</b> 08/26/2014	<b>Plug Date:</b>
<b>Log File Date:</b> 09/10/2014	<b>PCW Rcv Date:</b> 04/27/2017	<b>Source:</b> Artesian
<b>Pump Type:</b> SUBMER	<b>Pipe Discharge Size:</b> 3	<b>Estimated Yield:</b>
<b>Casing Size:</b> 6.37	<b>Depth Well:</b> 1286 feet	<b>Depth Water:</b> 578 feet

### Water Bearing Stratifications:

Top	Bottom	Description
945	960	Sandstone/Gravel/Conglomerate
960	1077	Shale/Mudstone/Siltstone
1077	1215	Sandstone/Gravel/Conglomerate
1215	1286	Shale/Mudstone/Siltstone

### Casing Perforations:

Top	Bottom
846	1286

<b>Meter Number:</b> 18278	<b>Meter Make:</b> BLANCETT
<b>Meter Serial Number:</b> 002514700	<b>Meter Multiplier:</b> 1.0000
<b>Number of Dials:</b> 9	<b>Meter Type:</b> Diversion
<b>Unit of Measure:</b> Barrels 42 gal.	<b>Return Flow Percent:</b>
<b>Usage Multiplier:</b>	<b>Reading Frequency:</b> Monthly

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
06/03/2015	2015	620282	A	ap	beginning meter reading	0
06/27/2015	2015	648079	A	ap		358.285
07/31/2015	2015	648079	A	ap		0
08/21/2015	2015	678838	A	ap		396.463
09/30/2015	2015	679417	A	ap		7.463
10/30/2015	2015	777255	A	ap		1261.066
11/30/2015	2015	798886	A	ap		278.809
04/30/2016	2016	984569	A	ap		2393.329
06/30/2016	2016	1124000	A	ap		1797.172
07/31/2016	2016	1199233	A	ap		969.703
09/01/2016	2016	1273938	A	ap		962.897
09/30/2016	2016	1304197	A	ap		390.018
10/31/2016	2016	1352466	A	ap		622.155
11/29/2016	2016	1416500	A	ap		825.355
12/31/2016	2016	1496320	A	ap		1028.826
02/01/2017	2017	1526044	A	ap		383.122
03/01/2017	2017	1526818	A	ap		9.976
03/31/2017	2017	1549606	A	ap		293.722

05/01/2017	2017	1596745	A	ap	607.590
05/31/2017	2017	1609365	A	ap	162.663
07/31/2017	2017	1675457	A	ap	851.881
10/31/2017	2017	1782654	A	ap	1381.697
11/30/2017	2017	1866815	A	ap	1084.779
12/30/2017	2017	1939812	A	ap	940.882
01/30/2018	2018	2006016	A	ap	853.325
02/28/2018	2018	2071063	A	ap	838.412
03/30/2018	2018	2134697	A	ap	820.199
04/30/2018	2018	2198100	A	ap	817.222
06/01/2018	2018	2264810	A	ap	859.847
06/29/2018	2018	2327836	A	ap	812.363
07/31/2018	2018	2408117	A	ap	1034.768
08/30/2018	2018	2477917	A	ap	899.675
09/30/2018	2018	2536539	A	ap	755.598
11/30/2018	2018	2614905	A	ap	1010.085
01/02/2019	2018	2676128	A	RPT	7.891
02/01/2019	2019	2690452	A	RPT	1.846
08/01/2019	2019	3102120	A	RPT	53.061
09/01/2019	2019	3143282	A	RPT	5.306
09/30/2019	2019	3237244	A	RPT	12.111
10/31/2019	2019	3279628	A	RPT	5.463
11/30/2019	2019	3343068	A	RPT	8.177
12/31/2019	2019	3380700	A	RPT	4.851
02/01/2020	2020	3404021	A	RPT	3.006
03/01/2020	2020	3424112	A	RPT	2.590
04/01/2020	2020	3461970	A	RPT	4.880
05/01/2020	2020	3461970	A	RPT	0
06/01/2020	2020	3474270	A	RPT	1.585
08/01/2020	2020	3485254	A	RPT	1.416
09/01/2020	2020	3495334	A	RPT	1.299
10/01/2020	2020	3495334	A	RPT	0
10/31/2020	2020	3520393	A	WEB	3.230 X
11/30/2020	2020	3604293	A	WEB	10.814 X
12/31/2020	2020	3652303	A	WEB	6.188 X

x

**YTD Meter Amounts:	Year	Amount
	2015	2302.086
	2016	8989.455
	2017	5716.312
	2018	8709.385
	2019	90.815
	2020	35.008

x

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7/1/21 2:04 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
CP	01355 POD1	2	1	3	27	21S	33E	634773	3591061

<b>Driller License:</b>	421	<b>Driller Company:</b>	GLENN'S WATER WELL SERVICE
-------------------------	-----	-------------------------	----------------------------

<b>Driller Name:</b>	GLENN, CLARK A."CORKY"
----------------------	------------------------

<b>Drill Start Date:</b>	07/22/2014	<b>Drill Finish Date:</b>	07/29/2014	<b>Plug Date:</b>	
<b>Log File Date:</b>	09/10/2014	<b>PCW Rcv Date:</b>	04/27/2017	<b>Source:</b>	Artesian
<b>Pump Type:</b>	SUBMER	<b>Pipe Discharge Size:</b>	3	<b>Estimated Yield:</b>	50 GPM
<b>Casing Size:</b>	6.37	<b>Depth Well:</b>	1192 feet	<b>Depth Water:</b>	582 feet

Water Bearing Stratifications:	Top	Bottom	Description
	925	975	Sandstone/Gravel/Conglomerate
	975	1185	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	690	1192

<b>Meter Number:</b>	18276	<b>Meter Make:</b>	BLANCETT
<b>Meter Serial Number:</b>	092413721	<b>Meter Multiplier:</b>	1.0000
<b>Number of Dials:</b>	9	<b>Meter Type:</b>	Diversion
<b>Unit of Measure:</b>	Barrels 42 gal.	<b>Return Flow Percent:</b>	
<b>Usage Multiplier:</b>		<b>Reading Frequency:</b>	Monthly

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
06/03/2015	2015	551474	A	ap	beginning meter amt	0
06/27/2015	2015	578359	A	ap		346.530
07/31/2015	2015	578359	A	ap		0
08/31/2015	2015	578359	A	ap		0
09/30/2015	2015	578359	A	ap		0
10/28/2015	2015	578861	A	ap		6.470
11/30/2015	2015	590798	A	ap		153.860
04/28/2016	2016	784703	A	ap		2499.305
06/30/2016	2016	884243	A	ap		1283.004
07/27/2016	2016	939606	A	ap		713.592
09/01/2016	2016	995570	A	ap		721.338
09/30/2016	2016	1016127	A	ap		264.966
10/30/2016	2016	1043814	A	ap		356.867
11/29/2016	2016	1103209	A	ap		765.562
12/31/2016	2016	1156125	A	ap		682.052
02/01/2017	2017	1180595	A	ap		315.402
03/01/2017	2017	1190359	A	ap		125.851
03/31/2017	2017	1240617	A	ap		647.792
05/01/2017	2017	1286711	A	ap		594.121
05/31/2017	2017	1299115	A	ap		159.879

07/31/2017	2017	1383629	A	ap	1089.329
10/31/2017	2017	1493649	A	ap	1418.084
11/30/2017	2017	1561037	A	ap	868.586
12/30/2017	2017	1623261	A	ap	802.025
01/30/2018	2018	1649051	A	ap	332.416
02/28/2018	2018	1734092	A	ap	1096.121
03/30/2018	2018	1787360	A	ap	686.589
04/30/2018	2018	1839572	A	ap	672.978
06/01/2018	2018	1891342	A	ap	667.280
06/29/2018	2018	1940867	A	ap	638.344
07/31/2018	2018	1999821	A	ap	759.877
08/30/2018	2018	2052087	A	ap	673.674
09/30/2018	2018	2084885	A	ap	422.744
11/30/2018	2018	2190614	A	ap	1362.776
01/02/2019	2018	2242236	A	RPT	6.654
02/01/2019	2019	2253666	A	RPT	1.473
08/01/2019	2019	2591739	A	RPT	43.575
09/01/2019	2019	2636041	A	RPT	5.710
09/30/2019	2019	2691438	A	RPT	7.140
10/31/2019	2019	2741881	A	RPT	6.502
11/30/2019	2019	2791150	A	RPT	6.350
12/31/2019	2019	2819880	A	RPT	3.703
02/01/2020	2020	2825724	A	RPT	0.753
03/01/2020	2020	2848363	A	RPT	2.918
04/01/2020	2020	2857702	A	RPT	1.204
05/01/2020	2020	2857702	A	RPT	0
06/01/2020	2020	2857702	A	RPT	0
08/01/2020	2020	2892062	A	RPT	4.429
09/01/2020	2020	2902122	A	RPT	1.297
10/01/2020	2020	2907904	A	RPT	0.745
10/31/2020	2020	2934407	A	WEB	3.416 X
11/30/2020	2020	2934407	A	WEB	0 X
12/31/2020	2020	3011182	A	WEB	9.896 X

x

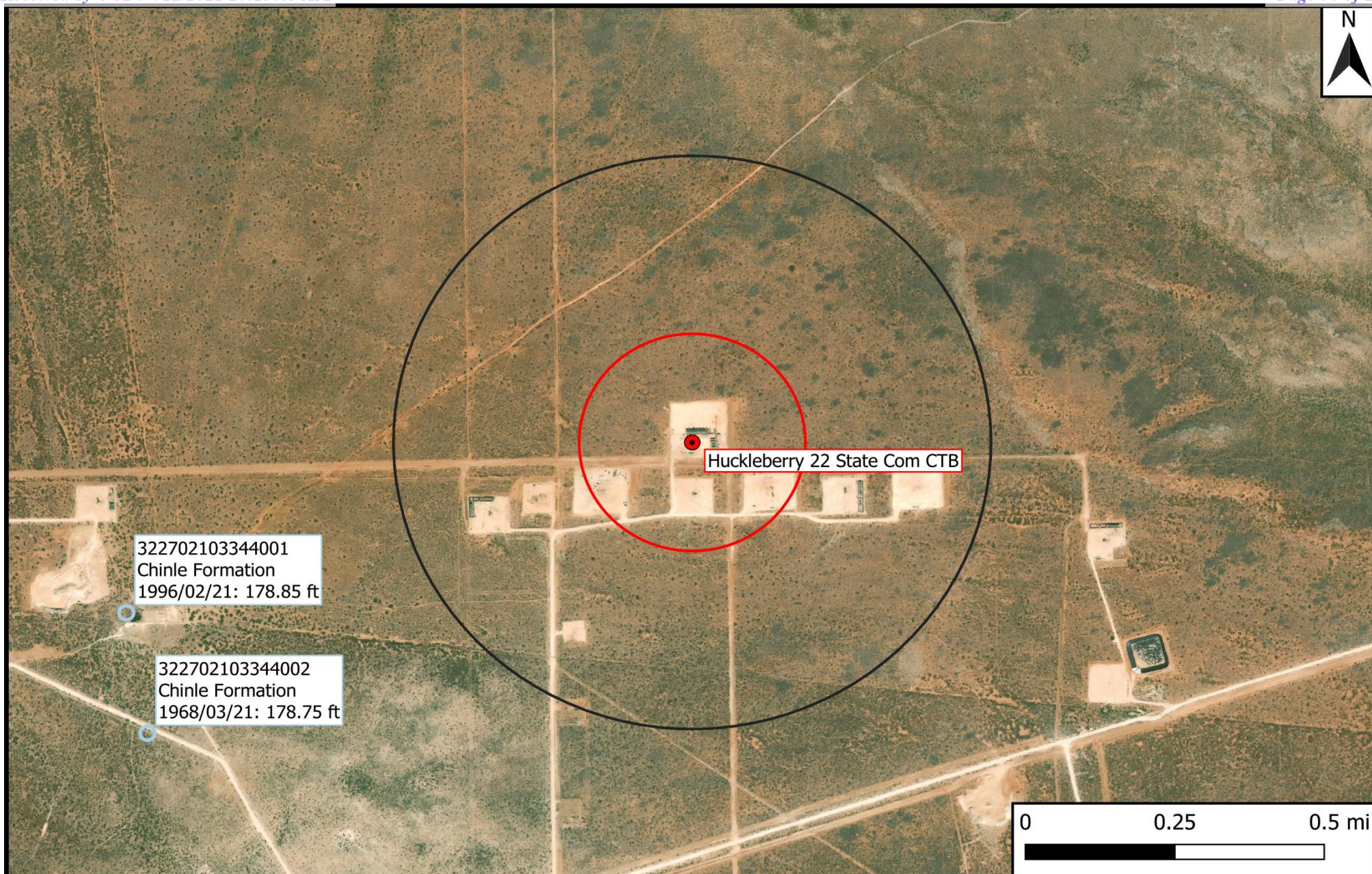
**YTD Meter Amounts:	Year	Amount
	2015	506.860
	2016	7286.686
	2017	6021.069
	2018	7319.453
	2019	74.453
	2020	24.658

x

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

7/1/21 2:06 PM

POINT OF DIVERSION SUMMARY



## Legend

- Site Location
- Well - USGS
- 1,000-Ft Radius
- 0.5-Mi Radius

## Figure 5

USGS Well Proximity Map  
COG Operating, LLC  
Huckleberry 22 State Com CTB  
GPS: 32.457862, -103.562545  
Lea County



Drafted: bja

Checked: jwl

Date: 7/1/21



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## National Water Information System: Web Interface

USGS Water Resources

Data Category:  Geographic Area:

Click for News Bulletins

Groundwater levels for the Nation

\* IMPORTANT: [Next Generation Station Page](#)

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 322702103344001

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 322702103344001 21S.33E.28.12443

Lea County, New Mexico

Latitude 32°27'13", Longitude 103°34'42" NAD27

Land-surface elevation 3,688.00 feet above NGVD29

The depth of the well is 224 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1971-02-04			D	72019	178.62			1	Z		A
1972-09-22			D	72019	178.60			1	Z		A
1976-12-16			D	72019	178.86			1	Z		A
1981-03-10			D	72019	184.67			1	Z		A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1986-03-20			D	72019	179.24		1	Z			A
1991-04-19			D	72019	179.10		1	Z			A
1996-02-21			D	72019	178.85		1	S			A

## Explanation

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

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**Title: Groundwater for USA: Water Levels**

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

Page Last Modified: 2021-07-01 17:31:27 EDT

0.29 0.25 nadww02





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## National Water Information System: Web Interface

USGS Water Resources

Data Category:  Geographic Area:

Click for News Bulletins

Groundwater levels for the Nation

\* IMPORTANT: [Next Generation Station Page](#)

### Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 322702103344002

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 322702103344002 21S.33E.28.12443A

Lea County, New Mexico

Latitude 32°27'02", Longitude 103°34'40" NAD27

Land-surface elevation 3,680 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
<input type="text" value="1968-03-21"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="D"/>	<input type="text" value="72019"/>	<input type="text" value="178.75"/>	<input type="text"/>	<input type="text" value="1"/>	<input type="text" value="Z"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="A"/>

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

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**Title: Groundwater for USA: Water Levels**

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

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

Page Last Modified: 2021-07-01 17:32:48 EDT

0.38 0.24 nadww01



## **Appendix B**

### **Field Data & Soil Profile Logs**



## Sample Log

Date: 4/13/21

Project: Huckleberry 22 State Com CTB

Project Number: 14014Latitude: 32.457862Longitude: -103.562545

Sample ID	PID/Odor	Chloride Conc.	GPS
NH @ surface	-	198	
NH @ 1'	-	168	
EH @ surface	-	198	
EH @ 1'	-	144	
SH @ surface	-	7120	
SH @ 1'	-	7120	
WH @ surface	-	168	
WH @ 1'	-	7120	
SP1 @ surface	Strong	13,468	
SP1 @ 1'	light	4,328	
SP2 @ surface	strong	14,332	
SP2 @ 1'	light	6,500	
SP3 @ surface	light	9,884	
SP3 @ 1'	-	198	
SP1 @ 2'	-	1,240	
SP2 @ 2'	-	2,140	
SP1 @ 3'	-	1,332	
SP2 @ 3'	-	256	
SP1 @ 4'	-	1,328	
Confirmation sampling event			
SW1	-	198	
FW1	-	412	
WW1	-	340	
FL1 @ 4'	-	1224	
<del>FL1</del> FL1 @ 5'	-	240	
FL2 @ 5'	-	212	
FL3 @ 5'	-	222	
FL4 @ 5'	-	112	
<del>FL5</del> FL5 @ 3'	-	2300	
FL5 @ 4'	-	996	
FL5 @ 5'	-	240	
FL6 @ 5'	-	256	
FL7 @ 5'	-	368	
WW2	-	198	
FL8 @ 5'	-	184	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



## Sample Log

Date: \_\_\_\_\_

 Project: \_\_\_\_\_  
 Project Number: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 9 @ 5'	-	242	
FL 10 @ 3'	-	272	
FL 11 @ 3'	-	212	
FL 12 @ 5'	-	179	
FL 13 @ 5'	-	218	
<del>FL 14 @ 3'</del>	-	<del>864</del> 864	
FL 14 @ 4'	-	908	
FL 15 @ 5'	-	198	
FL 16 @ 5'	-	212	
FL 17 @ 2'	-	272	
FL 18 @ 2'	-	189	
FL 19 @ 2'	-	2484	
FL 19 @ 4'	-	1986	
FL 19 @ 5'	-	212	
FL 20 @ 5'	-	272	
FL 21 @ 4'	-	2484	
FL 21 @ 5'	-	198	
FL 22 @ 5'	-	112	
FL 23 @ 3'	-	684	
FL 23 @ 4'	-	242	
FL 24 @ 4'	-	198	
FL 25 @ 4'	-	1936	
FL 26 @ 4'	-	1621	
FL 28 @ 5'	-	316	
FL 26 @ 5'	-	224	
FL 27 @ 5'	-	212	
FL 28 @ 5'	-	212	
FL 29 @ 5'	-	272	
FL 30 @ 5'	-	198	
FL 31 @ 4'	-	640	
FL 32 @ 4'	-	720	
FL 33 @ 2'	-	416	
FL 34 @ 2'	-	456	
FL 35 @ 2'	-	1728	
FL 35 @ 4'	-	578	
FL 36 @ 4'	-	720	

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



## Sample Log

Date: \_\_\_\_\_

Project:

Project Number: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

[illegible]

**Sample Point = SP #1 @ ## etc**

**Floor = FL #1 etc**

**Sidewall = SW #1 etc**

Test Trench = TT #1 @ ##

**Refusal = SP #1 @ 4'-R**

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

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

**Stockpile = Stockpile #1**

### GPS Sample Points, Center of Comp Areas



## Soil Profile

Date: 7/13/21Project: Huckleberry 22 State Com CTBProject Number: 14014 Latitude: 32.457862 Longitude: -103.562545

Depth (ft. bgs)

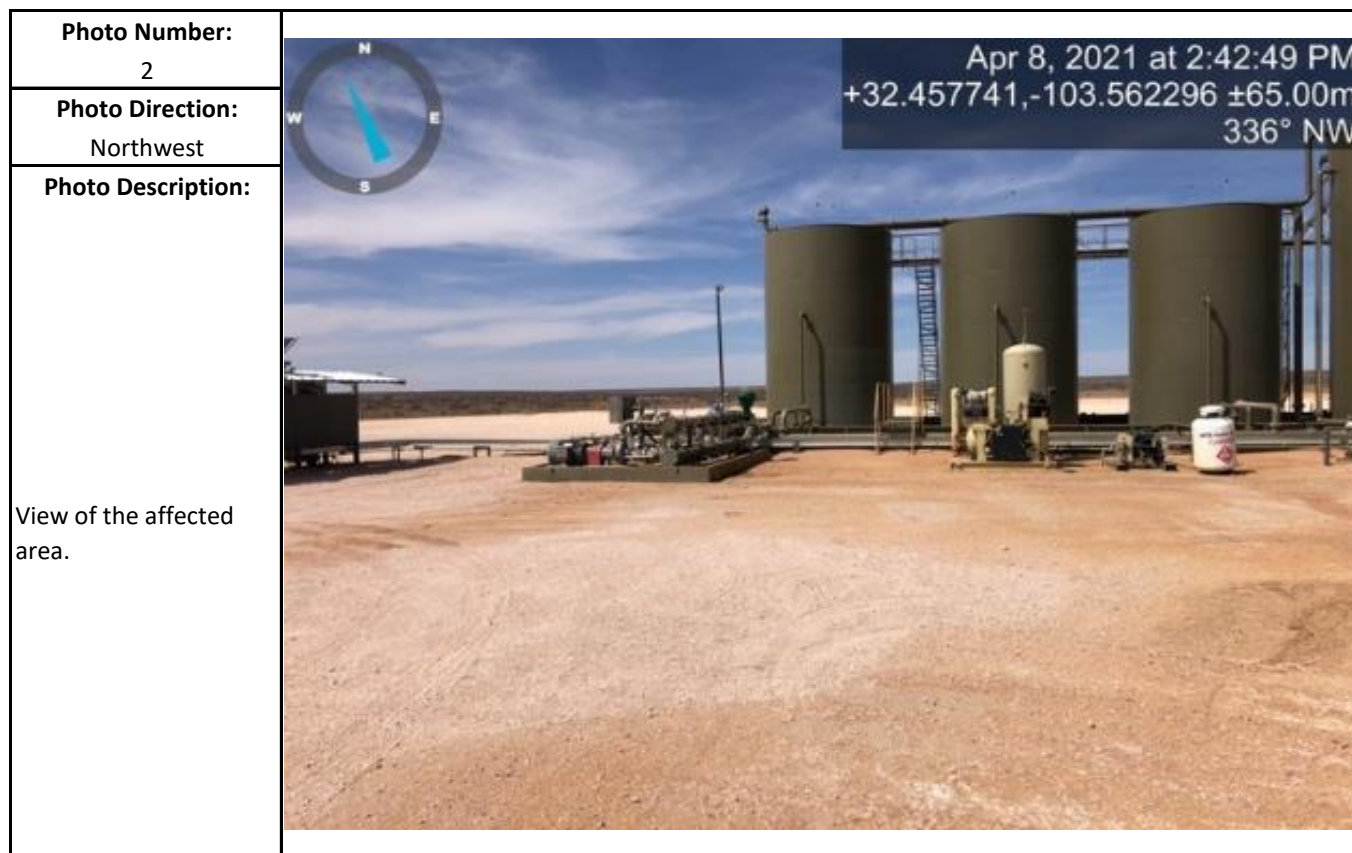
Description

1	caliche	hard surface 0-1'
2	red dirt	soft red dirt @ 1'-4'
3	red dirt	
4	red dirt	
5		
6		
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8		
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## **Appendix C**

### **Photographic Log**

## Photographic Log



## Photographic Log



## Photographic Log

<b>Photo Number:</b> 5	 <p>Jun 7, 2021 at 10:10:42 AM +32.457731,-103.562076 ±65.00m 79° E</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b>  View of the excavated area.	


<b>Photo Number:</b> 6	 <p>Jun 7, 2021 at 10:11:18 AM +32.457972,-103.562801 ±5.00m 153° SE</p>
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the excavated area.	

## Photographic Log

<b>Photo Number:</b> 7	
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 8	
<b>Photo Direction:</b> Southeast	
<b>Photo Description:</b>  View of the excavated area.	

## Photographic Log

<b>Photo Number:</b> 9	<div>Jun 21, 2021 at 3:51:04 PM Hobbs NM 88231 United States</div> 
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the remediated area after backfilling and regrading.	

<b>Photo Number:</b> 10	<div>Jun 21, 2021 at 3:52:11 PM Hobbs NM 88231 United States</div> 
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the remediated area after backfilling and regrading.	

## Photographic Log

<b>Photo Number:</b> 11	<div>Jun 21, 2021 at 3:53:14 PM Hobbs NM 88231 United States</div> 
<b>Photo Direction:</b> Northwest	
<b>Photo Description:</b>  View of the remediated area after backfilling and regrading.	

## **Appendix D**

### **Laboratory Analytical Reports**



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

---

May 25, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: HUCKLEBERRY 22 STATE COM CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/20/21 17:05.

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

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/19/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 1 @ 5' (H211319-01)**

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	05/24/2021	ND	1.92	95.9	2.00	7.02	
Toluene*	<0.050	0.050	05/24/2021	ND	1.96	98.2	2.00	7.02	
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.96	98.1	2.00	6.35	
Total Xylenes*	<0.150	0.150	05/24/2021	ND	6.05	101	6.00	7.66	
Total BTEx	<0.300	0.300	05/24/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/24/2021	ND	400	100	400	3.92	

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	05/24/2021	ND	216	108	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	226	113	200	0.343	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.1 % 38.9-142

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 whatsoever 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, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/19/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 2 @ 5' (H211319-02)**

BTX 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	05/24/2021	ND	1.92	95.9	2.00	7.02		
Toluene*	<0.050	0.050	05/24/2021	ND	1.96	98.2	2.00	7.02		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.96	98.1	2.00	6.35		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	6.05	101	6.00	7.66		
Total BTX	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/24/2021	ND	400	100	400	3.92		

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	05/24/2021	ND	216	108	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	226	113	200	0.343	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.5 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/19/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 3 @ 5' (H211319-03)**

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	05/24/2021	ND	1.92	95.9	2.00	7.02		
Toluene*	<0.050	0.050	05/24/2021	ND	1.96	98.2	2.00	7.02		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.96	98.1	2.00	6.35		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	6.05	101	6.00	7.66		
Total BTEX	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/24/2021	ND	400	100	400	3.92		

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	05/24/2021	ND	216	108	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	226	113	200	0.343	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.6 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/20/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 4 @ 5' (H211319-04)**

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	05/24/2021	ND	1.92	95.9	2.00	7.02		
Toluene*	<0.050	0.050	05/24/2021	ND	1.96	98.2	2.00	7.02		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.96	98.1	2.00	6.35		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	6.05	101	6.00	7.66		
Total BTEx	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	05/24/2021	ND	400	100	400	3.92		

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	05/24/2021	ND	216	108	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	226	113	200	0.343	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 98.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.9 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/20/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 5 @ 5' (H211319-05)**

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	05/24/2021	ND	1.92	95.9	2.00	7.02		
Toluene*	<0.050	0.050	05/24/2021	ND	1.96	98.2	2.00	7.02		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.96	98.1	2.00	6.35		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	6.05	101	6.00	7.66		
Total BTEx	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/24/2021	ND	400	100	400	3.92		

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	05/24/2021	ND	216	108	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	226	113	200	0.343	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 84.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.7 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/20/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 6 @ 5' (H211319-06)**

BTX 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	05/24/2021	ND	1.92	95.9	2.00	7.02		
Toluene*	<0.050	0.050	05/24/2021	ND	1.96	98.2	2.00	7.02		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.96	98.1	2.00	6.35		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	6.05	101	6.00	7.66		
Total BTX	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/24/2021	ND	400	100	400	3.92		

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	05/24/2021	ND	216	108	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	226	113	200	0.343	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.7 % 38.9-142

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**Analytical Results For:**

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 JOEL LOWRY  
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 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/20/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 7 @ 5' (H211319-07)**

BTX 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	05/24/2021	ND	1.92	95.9	2.00	7.02		
Toluene*	<0.050	0.050	05/24/2021	ND	1.96	98.2	2.00	7.02		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.96	98.1	2.00	6.35		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	6.05	101	6.00	7.66		
Total BTX	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/24/2021	ND	400	100	400	3.92		

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	05/24/2021	ND	216	108	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	226	113	200	0.343	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.2 % 38.9-142

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**Analytical Results For:**

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 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/20/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: WW 2 (H211319-08)**

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	05/24/2021	ND	1.92	95.9	2.00	7.02		
Toluene*	<0.050	0.050	05/24/2021	ND	1.96	98.2	2.00	7.02		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.96	98.1	2.00	6.35		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	6.05	101	6.00	7.66		
Total BTEx	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	05/25/2021	ND	416	104	400	3.92		

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	05/24/2021	ND	216	108	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	226	113	200	0.343	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.8 % 38.9-142

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**Analytical Results For:**

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

Received:	05/20/2021	Sampling Date:	05/20/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: WW 1 (H211319-09)**

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	05/24/2021	ND	1.92	95.9	2.00	7.02		
Toluene*	<0.050	0.050	05/24/2021	ND	1.96	98.2	2.00	7.02		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.96	98.1	2.00	6.35		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	6.05	101	6.00	7.66		
Total BTEx	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/25/2021	ND	416	104	400	3.92		

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	05/24/2021	ND	216	108	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	226	113	200	0.343	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 89.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.3 % 38.9-142

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/20/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: SW 1 (H211319-10)**

BTX 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	05/24/2021	ND	1.92	95.9	2.00	7.02		
Toluene*	<0.050	0.050	05/24/2021	ND	1.96	98.2	2.00	7.02		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.96	98.1	2.00	6.35		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	6.05	101	6.00	7.66		
Total BTX	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

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	05/25/2021	ND	416	104	400	3.92	

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	05/24/2021	ND	216	108	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	226	113	200	0.343	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/19/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: DEF 1 @ 6" (H211319-11)**

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	05/24/2021	ND	1.92	95.9	2.00	7.02		
Toluene*	<0.050	0.050	05/24/2021	ND	1.96	98.2	2.00	7.02		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.96	98.1	2.00	6.35		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	6.05	101	6.00	7.66		
Total BTEx	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	05/25/2021	ND	416	104	400	3.92		

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	05/24/2021	ND	216	108	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	226	113	200	0.343	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 96.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.5 % 38.9-142

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**Analytical Results For:**

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 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/19/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: DEF 2 @ 6" (H211319-12)**

BTX 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	05/24/2021	ND	1.92	95.9	2.00	7.02		
Toluene*	<0.050	0.050	05/24/2021	ND	1.96	98.2	2.00	7.02		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.96	98.1	2.00	6.35		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	6.05	101	6.00	7.66		
Total BTX	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8000	16.0	05/25/2021	ND	416	104	400	3.92		

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	05/24/2021	ND	216	108	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	226	113	200	0.343	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 93.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.7 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/19/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: DEF 3 @ 6" (H211319-13)**

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	05/24/2021	ND	1.92	95.9	2.00	7.02		
Toluene*	<0.050	0.050	05/24/2021	ND	1.96	98.2	2.00	7.02		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.96	98.1	2.00	6.35		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	6.05	101	6.00	7.66		
Total BTEx	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11100	16.0	05/25/2021	ND	416	104	400	3.92		

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	05/24/2021	ND	216	108	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	226	113	200	0.343	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 96.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.4 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/19/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: DEF 1 @ 5' (H211319-14)**

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	05/24/2021	ND	1.92	95.9	2.00	7.02		
Toluene*	<0.050	0.050	05/24/2021	ND	1.96	98.2	2.00	7.02		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.96	98.1	2.00	6.35		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	6.05	101	6.00	7.66		
Total BTEx	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	05/25/2021	ND	416	104	400	3.92	

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	05/24/2021	ND	216	108	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	226	113	200	0.343	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.2 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/19/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: DEF 2 @ 5' (H211319-15)**

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	05/24/2021	ND	1.92	95.9	2.00	7.02		
Toluene*	<0.050	0.050	05/24/2021	ND	1.96	98.2	2.00	7.02		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.96	98.1	2.00	6.35		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	6.05	101	6.00	7.66		
Total BTEx	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	05/25/2021	ND	416	104	400	3.92		

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	05/24/2021	ND	216	108	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	226	113	200	0.343	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 91.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.5 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/19/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: DEF 3 @ 5' (H211319-16)**

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	05/24/2021	ND	1.92	95.9	2.00	7.02		
Toluene*	<0.050	0.050	05/24/2021	ND	1.96	98.2	2.00	7.02		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.96	98.1	2.00	6.35		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	6.05	101	6.00	7.66		
Total BTEx	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/25/2021	ND	416	104	400	3.92	

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	05/24/2021	ND	208	104	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	159	79.4	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 87.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.8 % 38.9-142

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**Analytical Results For:**

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 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/20/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: NHD @ SURFACE (H211319-17)**

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	05/24/2021	ND	2.07	103	2.00	10.6		
Toluene*	<0.050	0.050	05/24/2021	ND	2.02	101	2.00	11.4		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.92	95.9	2.00	13.2		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	5.81	96.8	6.00	12.4		
Total BTEx	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

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	05/25/2021	ND	416	104	400	3.92		

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	05/24/2021	ND	208	104	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	159	79.4	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 91.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.2 % 38.9-142

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**Analytical Results For:**

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 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/20/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: NHD @ 1' (H211319-18)**

BTX 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	05/24/2021	ND	2.07	103	2.00	10.6		
Toluene*	<0.050	0.050	05/24/2021	ND	2.02	101	2.00	11.4		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.92	95.9	2.00	13.2		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	5.81	96.8	6.00	12.4		
Total BTX	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	05/25/2021	ND	416	104	400	3.92		

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	05/24/2021	ND	208	104	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	159	79.4	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 91.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/20/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: EHD @ SURFACE (H211319-19)**

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	05/24/2021	ND	2.07	103	2.00	10.6		
Toluene*	<0.050	0.050	05/24/2021	ND	2.02	101	2.00	11.4		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.92	95.9	2.00	13.2		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	5.81	96.8	6.00	12.4		
Total BTEx	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/25/2021	ND	416	104	400	3.92		

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	05/24/2021	ND	208	104	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	159	79.4	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 93.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/20/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: EHD @ 1' (H211319-20)**

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	05/24/2021	ND	2.07	103	2.00	10.6		
Toluene*	<0.050	0.050	05/24/2021	ND	2.02	101	2.00	11.4		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.92	95.9	2.00	13.2		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	5.81	96.8	6.00	12.4		
Total BTEx	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/25/2021	ND	416	104	400	3.92		

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	05/24/2021	ND	208	104	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	159	79.4	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/20/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: WHD @ SURFACE (H211319-21)**

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	05/24/2021	ND	2.07	103	2.00	10.6		
Toluene*	<0.050	0.050	05/24/2021	ND	2.02	101	2.00	11.4		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.92	95.9	2.00	13.2		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	5.81	96.8	6.00	12.4		
Total BTEx	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

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	05/25/2021	ND	416	104	400	3.92		

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	05/24/2021	ND	208	104	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	159	79.4	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 93.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/20/2021	Sampling Date:	05/20/2021
Reported:	05/25/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: WHD @ 1' (H211319-22)**

BTX 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	05/24/2021	ND	2.07	103	2.00	10.6		
Toluene*	<0.050	0.050	05/24/2021	ND	2.02	101	2.00	11.4		
Ethylbenzene*	<0.050	0.050	05/24/2021	ND	1.92	95.9	2.00	13.2		
Total Xylenes*	<0.150	0.150	05/24/2021	ND	5.81	96.8	6.00	12.4		
Total BTX	<0.300	0.300	05/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

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	05/25/2021	ND	416	104	400	3.92	

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	05/24/2021	ND	208	104	200	2.18	
DRO >C10-C28*	<10.0	10.0	05/24/2021	ND	159	79.4	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	05/24/2021	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



---

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### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



## CARDINAL LABORATORIES

**101 East Marland, Hobbs, NM 88240**

**(575) 393-2326 FAX (575) 393-2476**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																							
Project Manager: <u>Joul Lowry</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																							
Address: P.O. Box 301				Company: <u>CONOCO PHILLIPS</u>																											
City: Lovington		State: NM		Zip: 88260		Attn:																									
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																											
Project #: <u>14014</u>		Project Owner: <u>CONOCO PHILLIPS</u>		City:																											
Project Name: <u>Huckleberry 22 state com CTB</u>				State:      Zip:																											
Project Location: <u>Rural Lea county, NM</u>				Phone #:																											
Sampler Name: <u>Miguel Ramirez</u>				Fax #:																											
FOR LAB USE ONLY																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME			
<u>H211319</u>																															
1 FL1@5'				C		1						X								X		5/19/21				X		X		X	
2 FL2@5'				C		1						X								X		5/19/21				X		X		X	
3 FL3@5'				C		1						X								X		5/19/21				X		X		X	
4 FL4@5'				C		1						X								X		5/20/21				X		X		X	
5 FL5@5'				C		1						X								X		5/20/21				X		X		X	
6 FL6@5'				C		1						X								X		5/20/21				X		X		X	
7 FL7@5'				C		1						X								X		5/20/21				X		X		X	
8 WW@				C		1						X								X		5/20/21				X		X		X	
9 WWI				C		1						X								X		5/20/21				X		X		X	
10 SWI				C		1						X								X		5/20/21				X		X		X	
<p>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 the client for the analyses. All claims including those for negligence and any other cause whatsoever 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																															
Relinquished By: <u>[Signature]</u>				Date: <u>5-20-21</u>				Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:															
				Time: <u>1705</u>								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:															
Relinquished By:				Date:				Received By:				REMARKS:																			
				Time:																											
Delivered By: (Circle One)				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.																			
Sampler - UPS - Bus - Other:				Cool Intact				(Initials)																							
<u>260 #113</u>				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<u>JO</u>																							



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

(1082)

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
<b>Project Manager:</b> Joel Lowry				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
<b>Address:</b> P.O. Box 301				<b>Company:</b> Conoco Phillips																							
<b>City:</b> Lovington				<b>Attn:</b>																							
<b>State:</b> NM <b>Zip:</b> 88260				<b>Address:</b>																							
<b>Phone #:</b> (575) 396-2378				<b>City:</b>																							
<b>Fax #:</b> (575) 396-1429				<b>State:</b> <b>Zip:</b>																							
<b>Project #:</b> 14014				<b>Project Owner:</b> Conoco Phillips																							
<b>Project Name:</b> Huckleberry 22 State com CTB				<b>Phone #:</b>																							
<b>Project Location:</b> Rural Lea county, NM				<b>Fax #:</b>																							
<b>Sampler Name:</b> Miguel Romero																											
<b>FOR LAB USE ONLY</b>																											
<b>Lab I.D.</b>		<b>Sample I.D.</b>		<b>(G)RAB OR (C)OMP.</b>		<b># CONTAINERS</b>		<b>MATRIX</b>				<b>PRESERV.</b>		<b>SAMPLING</b>													
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE ICE / COOL OTHER:		DATE TIME													
H211319																											
11 DEF 1 @ 6"				G 1				X				X		5/19/21		X X X											
12 DEF 2 @ 6"				G 1				X				X		5/19/21		X X X											
13 DEF 3 @ 6"				G 1				X				X		5/19/21		X X X											
14 DEF 1 @ 5'				G 1				X				X		5/19/21		X X X											
15 DEF 2 @ 5'				G 1				X				X		5/19/21		X X X											
16 DEF 3 @ 5'				G 1				X				X		5/19/21		X X X											
17 NHD @ surface				G 1				X				X		5/20/21		X X X											
18 NHD @ 1'				G 1				X				X		5/20/21		X X X											
19 EHD @ surface				G 1				X				X		5/20/21		X X X											
20 EHD @ 1'				G 1				X				X		5/20/21		X X X											
<small>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 the client for the analyses. All claims including those for negligence and any other cause whatsoever 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																											
<b>Relinquished By:</b>				<b>Date:</b> 5-20-21				<b>Received By:</b>				<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No				<b>Add'l Phone #:</b>											
<b>Time:</b> 1705				<b>Time:</b>				<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No				<b>Add'l Fax #:</b>															
<b>Relinquished By:</b>				<b>Date:</b>				<b>Received By:</b>				<b>REMARKS:</b>															
<b>Time:</b>				<b>Time:</b>				<b>Delivered By: (Circle One)</b>				<b>Please email results to pm@etechenv.com.</b>															
<b>Sampler - UPS - Bus - Other:</b>				<b>Sample Condition</b>				<b>CHECKED BY:</b>																			
2.6c #113				Cont Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				(Initials) TO																			

FORM-006  
Revision 1.0

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

**ARDINAL LABORATORIES**

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(10F2)

Page 27 of 27

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																											
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																											
Address: P.O. Box 301				Company: Conoco Phillips																															
City: Lovington State: NM Zip: 88260				Attn:																															
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																															
Project #: 14014 Project Owner: Conoco Phillips				City:																															
Project Name: Huckleberry 22 state com CTB				State: Zip:																															
Project Location: Rural Lea County, NM				Phone #:																															
Sampler Name: Miguel Ramirez				Fax #:																															
R LAB USE ONLY																																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP		# CONTAINERS		MATRIX				PRESERV.		SAMPLING																					
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:																							
4211319																																			
21 WAD @ surface				G		1		X				X		5/20/21				X		X		X													
22 WAD @ 1'				G		1		X				X		5/20/21				X		X		X													



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May 28, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: HUCKLEBERRY 22 STATE COM CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/26/21 8:50.

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

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/26/2021	Sampling Date:	05/24/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 8 @ 5' (H211345-01)**

BTX 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	05/26/2021	ND	1.99	99.5	2.00	8.02	
Toluene*	<0.050	0.050	05/26/2021	ND	1.95	97.6	2.00	7.52	
Ethylbenzene*	<0.050	0.050	05/26/2021	ND	1.86	92.8	2.00	8.58	
Total Xylenes*	<0.150	0.150	05/26/2021	ND	5.60	93.3	6.00	8.58	
Total BTX	<0.300	0.300	05/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/27/2021	ND	400	100	400	7.69	

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	05/26/2021	ND	200	100	200	0.455	
DRO >C10-C28*	<10.0	10.0	05/26/2021	ND	206	103	200	0.895	
EXT DRO >C28-C36	<10.0	10.0	05/26/2021	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.4 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Etech Environmental & Safety Solutions  
 JOEL LOWRY  
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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/26/2021	Sampling Date:	05/24/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 9 @ 5' (H211345-02)**

BTX 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	05/26/2021	ND	1.99	99.5	2.00	8.02		
Toluene*	<0.050	0.050	05/26/2021	ND	1.95	97.6	2.00	7.52		
Ethylbenzene*	<0.050	0.050	05/26/2021	ND	1.86	92.8	2.00	8.58		
Total Xylenes*	<0.150	0.150	05/26/2021	ND	5.60	93.3	6.00	8.58		
Total BTX	<0.300	0.300	05/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/27/2021	ND	400	100	400	7.69		

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	05/26/2021	ND	200	100	200	0.455	
DRO >C10-C28*	<10.0	10.0	05/26/2021	ND	206	103	200	0.895	
EXT DRO >C28-C36	<10.0	10.0	05/26/2021	ND					

Surrogate: 1-Chlorooctane 94.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/26/2021	Sampling Date:	05/24/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 10 @ 3' (H211345-03)**

BTX 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	05/26/2021	ND	1.99	99.5	2.00	8.02	
Toluene*	<0.050	0.050	05/26/2021	ND	1.95	97.6	2.00	7.52	
Ethylbenzene*	<0.050	0.050	05/26/2021	ND	1.86	92.8	2.00	8.58	
Total Xylenes*	<0.150	0.150	05/26/2021	ND	5.60	93.3	6.00	8.58	
Total BTX	<0.300	0.300	05/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/27/2021	ND	400	100	400	7.69	

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	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	<10.0	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 75.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.0 % 38.9-142

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

Received:	05/26/2021	Sampling Date:	05/24/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 11 @ 3' (H211345-04)**

BTX 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	05/26/2021	ND	1.99	99.5	2.00	8.02	
Toluene*	<0.050	0.050	05/26/2021	ND	1.95	97.6	2.00	7.52	
Ethylbenzene*	<0.050	0.050	05/26/2021	ND	1.86	92.8	2.00	8.58	
Total Xylenes*	<0.150	0.150	05/26/2021	ND	5.60	93.3	6.00	8.58	
Total BTX	<0.300	0.300	05/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/27/2021	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	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	<10.0	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 94.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received:	05/26/2021	Sampling Date:	05/24/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 12 @ 5' (H211345-05)**

BTX 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	05/26/2021	ND	1.99	99.5	2.00	8.02	
Toluene*	<0.050	0.050	05/26/2021	ND	1.95	97.6	2.00	7.52	
Ethylbenzene*	<0.050	0.050	05/26/2021	ND	1.86	92.8	2.00	8.58	
Total Xylenes*	<0.150	0.150	05/26/2021	ND	5.60	93.3	6.00	8.58	
Total BTX	<0.300	0.300	05/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/27/2021	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	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	<10.0	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 98.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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**Analytical Results For:**

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 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/26/2021	Sampling Date:	05/24/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 13 @ 5' (H211345-06)**

BTX 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	05/26/2021	ND	1.99	99.5	2.00	8.02		
Toluene*	<0.050	0.050	05/26/2021	ND	1.95	97.6	2.00	7.52		
Ethylbenzene*	<0.050	0.050	05/26/2021	ND	1.86	92.8	2.00	8.58		
Total Xylenes*	<0.150	0.150	05/26/2021	ND	5.60	93.3	6.00	8.58		
Total BTX	<0.300	0.300	05/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/27/2021	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	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	<10.0	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 94.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/26/2021	Sampling Date:	05/24/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: EW 1 (H211345-07)**

BTX 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	05/26/2021	ND	1.99	99.5	2.00	8.02		
Toluene*	<0.050	0.050	05/26/2021	ND	1.95	97.6	2.00	7.52		
Ethylbenzene*	<0.050	0.050	05/26/2021	ND	1.86	92.8	2.00	8.58		
Total Xylenes*	<0.150	0.150	05/26/2021	ND	5.60	93.3	6.00	8.58		
Total BTX	<0.300	0.300	05/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	05/27/2021	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	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	<10.0	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 93.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/26/2021	Sampling Date:	05/24/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 14 @ 4' (H211345-08)**

BTX 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	05/26/2021	ND	1.99	99.5	2.00	8.02		
Toluene*	<0.050	0.050	05/26/2021	ND	1.95	97.6	2.00	7.52		
Ethylbenzene*	<0.050	0.050	05/26/2021	ND	1.86	92.8	2.00	8.58		
Total Xylenes*	<0.150	0.150	05/26/2021	ND	5.60	93.3	6.00	8.58		
Total BTX	<0.300	0.300	05/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	05/27/2021	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	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	<10.0	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.2 % 38.9-142

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**Analytical Results For:**

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 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/26/2021	Sampling Date:	05/25/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 15 @ 5' (H211345-09)**

BTX 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	05/26/2021	ND	1.99	99.5	2.00	8.02		
Toluene*	<0.050	0.050	05/26/2021	ND	1.95	97.6	2.00	7.52		
Ethylbenzene*	<0.050	0.050	05/26/2021	ND	1.86	92.8	2.00	8.58		
Total Xylenes*	<0.150	0.150	05/26/2021	ND	5.60	93.3	6.00	8.58		
Total BTX	<0.300	0.300	05/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/27/2021	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	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	<10.0	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 95.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.7 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/26/2021	Sampling Date:	05/25/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 16 @ 5' (H211345-10)**

BTX 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	05/27/2021	ND	1.96	97.8	2.00	5.76		
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71		
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21		
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40		
Total BTX	<0.300	0.300	05/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/27/2021	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	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	<10.0	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/27/2021	ND					

Surrogate: 1-Chlorooctane 97.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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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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A handwritten signature in black ink, appearing to read "C. D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																	
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																	
Address: P.O. Box 301				Company: Monoco Phillips																					
City: Lovington State: NM Zip: 88260				Attn:																					
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																					
Project #: 14014 Project Owner: Monoco Phillips				City:																					
Project Name: Huckleberry 22 state com CTB				State: Zip:																					
Project Location: Rural Lea County, NM				Phone #:																					
Sampler Name: Miguel Ramirez				Fax #:																					
FOR LAB USE ONLY				GRAB OR (COMP. # CONTAINERS)		MATRIX		PRESERV.		SAMPLING															
Lab I.D.		Sample I.D.				GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE ICE / COOL OTHER:		DATE		TIME													
H211345																									
1 FL 8 @ 5'				C 1		✓		X		5/24/21				X X X											
2 FL 9 @ 5'				C 1		✓		X		5/24/21				X X X											
3 FL 10 @ 3'				C 1		✓		X		5/24/21				X X X											
4 FL 11 @ 3'				C 1		✓		X		5/24/21				X X X											
5 FL 12 @ 5'				C 1		X		X		5/24/21				X X X											
6 FL 13 @ 5'				C 1		✓		X		5/24/21				X X X											
7 EW1				C 1		✓		X		5/24/21				X X X											
8 FL 14 @ 4'				C 1		X		X		5/24/21				X X X											
9 FL 15 @ 5'				C 1		X		X		5/25/21				X X X											
10 FL 16 @ 5'				C 1		X		X		5/25/21				X X X											
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Relinquished By:				Date: 5-26-21				Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:									
Time: 0850												Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:									
Relinquished By:				Date:				Received By:				REMARKS:													
Time:																									
Delivered By: (Circle One)								Sample Condition				CHECKED BY:													
Sampler - UPS - Bus - Other: H.8c #113								Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				(Initials) TO													

FORM-006  
Revision 1.0

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



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June 03, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: HUCKLEBERRY 22 STATE COM CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/28/21 16:25.

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

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/28/2021	Sampling Date:	05/26/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 17 @ 2' (H211384-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2021	ND	1.99	99.4	2.00	1.47	
Toluene*	<0.050	0.050	06/01/2021	ND	2.13	106	2.00	1.73	
Ethylbenzene*	<0.050	0.050	06/01/2021	ND	2.09	105	2.00	3.23	
Total Xylenes*	<0.150	0.150	06/01/2021	ND	6.20	103	6.00	2.49	
Total BTX	<0.300	0.300	06/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/01/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2021	ND	215	107	200	2.86	
DRO >C10-C28*	<10.0	10.0	06/01/2021	ND	232	116	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	06/01/2021	ND					

Surrogate: 1-Chlorooctane 71.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/28/2021	Sampling Date:	05/26/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 18 @ 2' (H211384-02)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2021	ND	1.99	99.4	2.00	1.47	
Toluene*	<0.050	0.050	06/01/2021	ND	2.13	106	2.00	1.73	
Ethylbenzene*	<0.050	0.050	06/01/2021	ND	2.09	105	2.00	3.23	
Total Xylenes*	<0.150	0.150	06/01/2021	ND	6.20	103	6.00	2.49	
Total BTEx	<0.300	0.300	06/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/01/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2021	ND	215	107	200	2.86	
DRO >C10-C28*	<10.0	10.0	06/01/2021	ND	232	116	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	06/01/2021	ND					

Surrogate: 1-Chlorooctane 73.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/28/2021	Sampling Date:	05/27/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 19 @ 5' (H211384-03)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2021	ND	1.98	99.0	2.00	3.86	
Toluene*	<0.050	0.050	06/01/2021	ND	2.04	102	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/01/2021	ND	1.97	98.6	2.00	7.90	
Total Xylenes*	<0.150	0.150	06/01/2021	ND	5.90	98.3	6.00	6.32	
Total BTX	<0.300	0.300	06/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/01/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2021	ND	215	107	200	2.86	
DRO >C10-C28*	<10.0	10.0	06/01/2021	ND	232	116	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	06/01/2021	ND					

Surrogate: 1-Chlorooctane 73.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/28/2021	Sampling Date:	05/27/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 20 @ 5' (H211384-04)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2021	ND	1.98	99.0	2.00	3.86	
Toluene*	<0.050	0.050	06/01/2021	ND	2.04	102	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/01/2021	ND	1.97	98.6	2.00	7.90	
Total Xylenes*	<0.150	0.150	06/01/2021	ND	5.90	98.3	6.00	6.32	
Total BTX	<0.300	0.300	06/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	06/01/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2021	ND	215	107	200	2.86	
DRO >C10-C28*	<10.0	10.0	06/01/2021	ND	232	116	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	06/01/2021	ND					

Surrogate: 1-Chlorooctane 71.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/28/2021	Sampling Date:	05/27/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 21 @ 5' (H211384-05)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2021	ND	1.98	99.0	2.00	3.86	
Toluene*	<0.050	0.050	06/01/2021	ND	2.04	102	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/01/2021	ND	1.97	98.6	2.00	7.90	
Total Xylenes*	<0.150	0.150	06/01/2021	ND	5.90	98.3	6.00	6.32	
Total BTX	<0.300	0.300	06/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/01/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2021	ND	215	107	200	2.86	
DRO >C10-C28*	<10.0	10.0	06/01/2021	ND	232	116	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	06/01/2021	ND					

Surrogate: 1-Chlorooctane 70.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.7 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/28/2021	Sampling Date:	05/27/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 22 @ 5' (H211384-06)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2021	ND	1.98	99.0	2.00	3.86	
Toluene*	<0.050	0.050	06/01/2021	ND	2.04	102	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/01/2021	ND	1.97	98.6	2.00	7.90	
Total Xylenes*	<0.150	0.150	06/01/2021	ND	5.90	98.3	6.00	6.32	
Total BTEx	<0.300	0.300	06/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

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	06/01/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2021	ND	215	107	200	2.86	
DRO >C10-C28*	<10.0	10.0	06/01/2021	ND	232	116	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	06/01/2021	ND					

Surrogate: 1-Chlorooctane 70.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.0 % 38.9-142

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**Analytical Results For:**

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

Received:	05/28/2021	Sampling Date:	05/28/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 23 @ 4' (H211384-07)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2021	ND	1.98	99.0	2.00	3.86	
Toluene*	<0.050	0.050	06/01/2021	ND	2.04	102	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/01/2021	ND	1.97	98.6	2.00	7.90	
Total Xylenes*	<0.150	0.150	06/01/2021	ND	5.90	98.3	6.00	6.32	
Total BTEx	<0.300	0.300	06/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

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	06/01/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2021	ND	215	107	200	2.86	
DRO >C10-C28*	<10.0	10.0	06/01/2021	ND	232	116	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	06/01/2021	ND					

Surrogate: 1-Chlorooctane 71.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.9 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
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 Fax To: (575) 396-1429

Received:	05/28/2021	Sampling Date:	05/28/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 24 @ 4' (H211384-08)**

BTX 8021B			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/01/2021	ND	1.98	99.0	2.00	3.86		
Toluene*	<0.050	0.050	06/01/2021	ND	2.04	102	2.00	5.17		
Ethylbenzene*	<0.050	0.050	06/01/2021	ND	1.97	98.6	2.00	7.90		
Total Xylenes*	<0.150	0.150	06/01/2021	ND	5.90	98.3	6.00	6.32		
Total BTX	<0.300	0.300	06/01/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/01/2021	ND	416	104	400	3.92		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/01/2021	ND	215	107	200	2.86		
DRO >C10-C28*	<10.0	10.0	06/01/2021	ND	232	116	200	3.44		
EXT DRO >C28-C36	<10.0	10.0	06/01/2021	ND						

Surrogate: 1-Chlorooctane 73.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.3 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/28/2021	Sampling Date:	05/28/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 25 @ 5' (H211384-09)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2021	ND	1.98	99.0	2.00	3.86	
Toluene*	<0.050	0.050	06/01/2021	ND	2.04	102	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/01/2021	ND	1.97	98.6	2.00	7.90	
Total Xylenes*	<0.150	0.150	06/01/2021	ND	5.90	98.3	6.00	6.32	
Total BTEX	<0.300	0.300	06/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/01/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2021	ND	215	107	200	2.86	
DRO >C10-C28*	<10.0	10.0	06/01/2021	ND	232	116	200	3.44	
EXT DRO >C28-C36	<10.0	10.0	06/01/2021	ND					

Surrogate: 1-Chlorooctane 70.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 68.9 % 38.9-142

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received:	05/28/2021	Sampling Date:	05/28/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 26 @ 5' (H211384-10)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2021	ND	1.98	99.0	2.00	3.86	
Toluene*	<0.050	0.050	06/01/2021	ND	2.04	102	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/01/2021	ND	1.97	98.6	2.00	7.90	
Total Xylenes*	<0.150	0.150	06/01/2021	ND	5.90	98.3	6.00	6.32	
Total BTEx	<0.300	0.300	06/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/01/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2021	ND	206	103	200	1.30	
DRO >C10-C28*	<10.0	10.0	06/02/2021	ND	213	107	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	06/02/2021	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.6 % 38.9-142

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**Analytical Results For:**

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

Received:	05/28/2021	Sampling Date:	05/28/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 27 @ 5' (H211384-11)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2021	ND	1.98	99.0	2.00	3.86	
Toluene*	<0.050	0.050	06/01/2021	ND	2.04	102	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/01/2021	ND	1.97	98.6	2.00	7.90	
Total Xylenes*	<0.150	0.150	06/01/2021	ND	5.90	98.3	6.00	6.32	
Total BTX	<0.300	0.300	06/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/01/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2021	ND	206	103	200	1.30	
DRO >C10-C28*	<10.0	10.0	06/02/2021	ND	213	107	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	06/02/2021	ND					

Surrogate: 1-Chlorooctane 76.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.7 % 38.9-142

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received:	05/28/2021	Sampling Date:	05/28/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 28 @ 5' (H211384-12)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2021	ND	1.98	99.0	2.00	3.86	
Toluene*	<0.050	0.050	06/01/2021	ND	2.04	102	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/01/2021	ND	1.97	98.6	2.00	7.90	
Total Xylenes*	<0.150	0.150	06/01/2021	ND	5.90	98.3	6.00	6.32	
Total BTX	<0.300	0.300	06/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/01/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2021	ND	206	103	200	1.30	
DRO >C10-C28*	<10.0	10.0	06/02/2021	ND	213	107	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	06/02/2021	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.2 % 38.9-142

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received:	05/28/2021	Sampling Date:	05/28/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 29 @ 5' (H211384-13)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/01/2021	ND	1.98	99.0	2.00	3.86		
Toluene*	<0.050	0.050	06/01/2021	ND	2.04	102	2.00	5.17		
Ethylbenzene*	<0.050	0.050	06/01/2021	ND	1.97	98.6	2.00	7.90		
Total Xylenes*	<0.150	0.150	06/01/2021	ND	5.90	98.3	6.00	6.32		
Total BTEx	<0.300	0.300	06/01/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	06/01/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2021	ND	206	103	200	1.30	
DRO >C10-C28*	<10.0	10.0	06/02/2021	ND	213	107	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	06/02/2021	ND					

Surrogate: 1-Chlorooctane 81.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	05/28/2021	Sampling Date:	05/28/2021
Reported:	06/03/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 30 @ 5' (H211384-14)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2021	ND	1.98	99.0	2.00	3.86	
Toluene*	<0.050	0.050	06/01/2021	ND	2.04	102	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/01/2021	ND	1.97	98.6	2.00	7.90	
Total Xylenes*	<0.150	0.150	06/01/2021	ND	5.90	98.3	6.00	6.32	
Total BTX	<0.300	0.300	06/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	06/01/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/02/2021	ND	206	103	200	1.30	
DRO >C10-C28*	<10.0	10.0	06/02/2021	ND	213	107	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	06/02/2021	ND					

Surrogate: 1-Chlorooctane 77.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page 17 of 18

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: <u>Joel Lowry</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: P.O. Box 301				Company: <u>Conoco Phillips</u>																							
City: Lovington State: NM Zip: 88260				Attn:																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																							
Project #: <u>14014</u> Project Owner: <u>ConocoPhillips</u>				City:																							
Project Name: <u>Huckleberry 22 State com CTB</u>				State: Zip:																							
Project Location: <u>Rural Lea county, NM</u>				Phone #:																							
Sampler Name: <u>Miguel Ramirez</u>				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
<u>H211384</u>																											
	1 FL 17 @ 2'	C	1			X				X			5/26/21		X	X	X										
	2 FL 18 @ 2'	C	1			X				X			5/26/21		X	X	X										
	3 FL 19 @ 5'	C	1			X				X			5/27/21		X	X	X										
	4 FL 20 @ 5'	C	1			X				X			5/27/21		X	X	X										
	5 FL 21 @ 5'	C	1			X				X			5/27/21		X	X	X										
	6 FL 22 @ 5'	C	1			X				X			5/27/21		X	X	X										
	7 FL 23 @ 4'	C	1			X				X			5/28/21		X	X	X										
	8 FL 24 @ 4'	C	1			X				X			5/28/21		X	X	X										
	9 FL 25 @ 5'	C	1			X				X			5/28/21		X	X	X										
	10 FL 26 @ 5'	C	1			X				X			5/28/21		X	X	X										
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Relinquished By: <u>[Signature]</u>				Date: <u>5-28-21</u>		Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
				Time: <u>1625</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Relinquished By:				Date:		Received By:				REMARKS:																	
				Time:																							
Delivered By: (Circle One)						Sample Condition						CHECKED BY:															
Sampler - UPS - Bus - Other: <u>5.3c #113</u>						Cool Intact						(Initials)															
						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						<u>Y.O.</u>															
						<input type="checkbox"/> Yes <input type="checkbox"/> No																					

FORM-006  
Revision 1.0

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

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June 09, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: HUCKLEBERRY 22 STATE COM CTB

Enclosed are the results of analyses for samples received by the laboratory on 06/04/21 16:51.

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

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/02/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 31 @ 4' (H211442-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.99	99.3	2.00	1.57	
Toluene*	<0.050	0.050	06/08/2021	ND	2.06	103	2.00	0.360	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	2.01	101	2.00	1.19	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	6.04	101	6.00	1.12	
Total BTX	<0.300	0.300	06/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	06/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	209	105	200	0.570	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	206	103	200	0.488	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 93.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/02/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 32 @ 4' (H211442-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.99	99.3	2.00	1.57	
Toluene*	<0.050	0.050	06/08/2021	ND	2.06	103	2.00	0.360	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	2.01	101	2.00	1.19	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	6.04	101	6.00	1.12	
Total BTX	<0.300	0.300	06/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	209	105	200	0.570	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	206	103	200	0.488	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/02/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 33 @ 2' (H211442-03)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.99	99.3	2.00	1.57	
Toluene*	<0.050	0.050	06/08/2021	ND	2.06	103	2.00	0.360	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	2.01	101	2.00	1.19	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	6.04	101	6.00	1.12	
Total BTEx	<0.300	0.300	06/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.6	200	7.05	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	189	94.5	200	7.28	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 86.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/02/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 34 @ 2' (H211442-04)**

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	06/08/2021	ND	1.99	99.3	2.00	1.57	
Toluene*	<0.050	0.050	06/08/2021	ND	2.06	103	2.00	0.360	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	2.01	101	2.00	1.19	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	6.04	101	6.00	1.12	
Total BTEx	<0.300	0.300	06/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.6	200	7.05	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	189	94.5	200	7.28	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 91.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/03/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 35 @ 4' (H211442-05)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.99	99.3	2.00	1.57	
Toluene*	<0.050	0.050	06/08/2021	ND	2.06	103	2.00	0.360	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	2.01	101	2.00	1.19	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	6.04	101	6.00	1.12	
Total BTEx	<0.300	0.300	06/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

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	06/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.6	200	7.05	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	189	94.5	200	7.28	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 89.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/03/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 36 @ 4' (H211442-06)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.99	99.3	2.00	1.57	
Toluene*	<0.050	0.050	06/08/2021	ND	2.06	103	2.00	0.360	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	2.01	101	2.00	1.19	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	6.04	101	6.00	1.12	
Total BTEx	<0.300	0.300	06/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	06/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.6	200	7.05	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	189	94.5	200	7.28	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 89.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/03/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 37 @ 4' (H211442-07)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2021	ND	1.98	98.8	2.00	1.23		
Toluene*	<0.050	0.050	06/08/2021	ND	2.01	100	2.00	3.72		
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	1.96	97.9	2.00	4.35		
Total Xylenes*	<0.150	0.150	06/08/2021	ND	5.87	97.9	6.00	4.20		
Total BTEX	<0.300	0.300	06/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.6	200	7.05	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	189	94.5	200	7.28	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 92.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.6 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/03/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 38 @ 4' (H211442-08)**

BTX 8021B			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2021	ND	1.98	98.8	2.00	1.23		
Toluene*	<0.050	0.050	06/08/2021	ND	2.01	100	2.00	3.72		
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	1.96	97.9	2.00	4.35		
Total Xylenes*	<0.150	0.150	06/08/2021	ND	5.87	97.9	6.00	4.20		
Total BTX	<0.300	0.300	06/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	06/08/2021	ND	400	100	400	3.92		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.6	200	7.05		
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	189	94.5	200	7.28		
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND						

Surrogate: 1-Chlorooctane 91.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.6 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 39 @ 4' (H211442-09)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.98	98.8	2.00	1.23	
Toluene*	<0.050	0.050	06/08/2021	ND	2.01	100	2.00	3.72	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	1.96	97.9	2.00	4.35	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	5.87	97.9	6.00	4.20	
Total BTX	<0.300	0.300	06/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.6	200	7.05	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	189	94.5	200	7.28	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 88.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.6 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 40 @ 4' (H211442-10)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.98	98.8	2.00	1.23	
Toluene*	<0.050	0.050	06/08/2021	ND	2.01	100	2.00	3.72	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	1.96	97.9	2.00	4.35	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	5.87	97.9	6.00	4.20	
Total BTEX	<0.300	0.300	06/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/08/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.6	200	7.05	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	189	94.5	200	7.28	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 87.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.3 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
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 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 41 @ 4' (H211442-11)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2021	ND	1.98	98.8	2.00	1.23		
Toluene*	<0.050	0.050	06/08/2021	ND	2.01	100	2.00	3.72		
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	1.96	97.9	2.00	4.35		
Total Xylenes*	<0.150	0.150	06/08/2021	ND	5.87	97.9	6.00	4.20		
Total BTEx	<0.300	0.300	06/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/09/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.6	200	7.05	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	189	94.5	200	7.28	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 87.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.0 % 38.9-142

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**Analytical Results For:**

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 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 42 @ 4' (H211442-12)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2021	ND	1.98	98.8	2.00	1.23		
Toluene*	<0.050	0.050	06/08/2021	ND	2.01	100	2.00	3.72		
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	1.96	97.9	2.00	4.35		
Total Xylenes*	<0.150	0.150	06/08/2021	ND	5.87	97.9	6.00	4.20		
Total BTEx	<0.300	0.300	06/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/09/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.6	200	7.05	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	189	94.5	200	7.28	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.8 % 38.9-142

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 43 @ 4' (H211442-13)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.98	98.8	2.00	1.23	
Toluene*	<0.050	0.050	06/08/2021	ND	2.01	100	2.00	3.72	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	1.96	97.9	2.00	4.35	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	5.87	97.9	6.00	4.20	
Total BTX	<0.300	0.300	06/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

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	06/09/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.6	200	7.05	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	189	94.5	200	7.28	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.7 % 38.9-142

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**Analytical Results For:**

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 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 44 @ 4' (H211442-14)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2021	ND	1.98	98.8	2.00	1.23		
Toluene*	<0.050	0.050	06/08/2021	ND	2.01	100	2.00	3.72		
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	1.96	97.9	2.00	4.35		
Total Xylenes*	<0.150	0.150	06/08/2021	ND	5.87	97.9	6.00	4.20		
Total BTEx	<0.300	0.300	06/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/09/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 45 @ 2' (H211442-15)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.98	98.8	2.00	1.23	
Toluene*	<0.050	0.050	06/08/2021	ND	2.01	100	2.00	3.72	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	1.96	97.9	2.00	4.35	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	5.87	97.9	6.00	4.20	
Total BTX	<0.300	0.300	06/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/09/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 46 @ 2' (H211442-16)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2021	ND	1.98	98.8	2.00	1.23		
Toluene*	<0.050	0.050	06/08/2021	ND	2.01	100	2.00	3.72		
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	1.96	97.9	2.00	4.35		
Total Xylenes*	<0.150	0.150	06/08/2021	ND	5.87	97.9	6.00	4.20		
Total BTX	<0.300	0.300	06/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/09/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 47@ 2' (H211442-17)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.98	98.8	2.00	1.23	
Toluene*	<0.050	0.050	06/08/2021	ND	2.01	100	2.00	3.72	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	1.96	97.9	2.00	4.35	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	5.87	97.9	6.00	4.20	
Total BTX	<0.300	0.300	06/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/09/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: FL 48 @ 2' (H211442-18)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.97	98.6	2.00	0.640	
Toluene*	<0.050	0.050	06/08/2021	ND	2.09	105	2.00	0.110	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	2.06	103	2.00	0.250	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	6.20	103	6.00	0.637	
Total BTEx	<0.300	0.300	06/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/09/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.3 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: WW 3 (H211442-19)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2021	ND	1.97	98.6	2.00	0.640		
Toluene*	<0.050	0.050	06/08/2021	ND	2.09	105	2.00	0.110		
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	2.06	103	2.00	0.250		
Total Xylenes*	<0.150	0.150	06/08/2021	ND	6.20	103	6.00	0.637		
Total BTEx	<0.300	0.300	06/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	06/09/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.2 % 38.9-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/04/2021	Sampling Date:	06/04/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	Cool & Intact
Project Number:	14014	Sample Received By:	Brandi Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: SW 2 (H211442-20)**

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.97	98.6	2.00	0.640	
Toluene*	<0.050	0.050	06/08/2021	ND	2.09	105	2.00	0.110	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	2.06	103	2.00	0.250	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	6.20	103	6.00	0.637	
Total BTX	<0.300	0.300	06/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	06/09/2021	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.9 % 38.9-142

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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

## **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Page 23 of 24

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>													
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>													
Address: P.O. Box 301				Company: Conoco Phillips																	
City: Lovington State: NM Zip: 88260				Attn:																	
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address:																	
Project #: 14004 Project Owner: Conoco Phillips				City:																	
Project Name: Huckleberry 22 state com CTR				State: Zip:																	
Project Location: Rural Lea County, NM				Phone #:																	
Sampler Name: Miguel Ramirez				Fax #:																	
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV.	SAMPLING														
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME							
HZ1442-																					
01	FL31@4'	C	1			X				X			6/2/21		X	X	X				
02	FL32@4'	C	1			X				X			6/2/21		X	X	X				
03	FL33@2'	C	1			X				X			6/2/21		X	X	X				
04	FL34@2'	C	1			X				X			6/2/21		X	X	X				
05	FL35@4'	C	1			X				X			6/3/21		X	X	X				
06	FL36@4'	C	1			X				X			6/3/21		X	X	X				
07	FL37@4'	C	1			X				X			6/3/21		X	X	X				
08	FL38@4'	C	1			X				X			6/3/21		X	X	X				
09	FL39@4'	C	1			X				X			6/4/21		X	X	X				
10	FL40@4'	C	1			X				X			6/4/21		X	X	X				
<p><small>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 the client for the analyses. All claims including those for negligence and any other cause whatsoever 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small></p>																					
Relinquished By:		Date: 6.4.21		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:													
		Time: 4:51		Blair Oldaker		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:													
Relinquished By:		Date:		Received By:		REMARKS:															
		Time:																			
Delivered By: (Circle One)				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.									
Sampler - UPS - Bus - Other: 2.6c #113				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				(Initials) BW 218													

**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

**(575) 393-2326 FAX (575) 393-2476**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

---

June 08, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: HUCKLEBERRY 22 STATE COM CTB

Enclosed are the results of analyses for samples received by the laboratory on 06/07/21 16:40.

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

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/07/2021	Sampling Date:	06/07/2021
Reported:	06/08/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	** (See Notes)
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: SW 3 (H211455-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.98	98.8	2.00	1.23	
Toluene*	<0.050	0.050	06/08/2021	ND	2.01	100	2.00	3.72	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	1.96	97.9	2.00	4.35	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	5.87	97.9	6.00	4.20	
Total BTX	<0.300	0.300	06/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/08/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 89.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.2 % 38.9-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/07/2021	Sampling Date:	06/07/2021
Reported:	06/08/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	** (See Notes)
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: SW 4 (H211455-02)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2021	ND	1.98	98.8	2.00	1.23		
Toluene*	<0.050	0.050	06/08/2021	ND	2.01	100	2.00	3.72		
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	1.96	97.9	2.00	4.35		
Total Xylenes*	<0.150	0.150	06/08/2021	ND	5.87	97.9	6.00	4.20		
Total BTEx	<0.300	0.300	06/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

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	06/08/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.0 % 38.9-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/07/2021	Sampling Date:	06/07/2021
Reported:	06/08/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	** (See Notes)
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: EW 2 (H211455-03)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.98	98.8	2.00	1.23	
Toluene*	<0.050	0.050	06/08/2021	ND	2.01	100	2.00	3.72	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	1.96	97.9	2.00	4.35	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	5.87	97.9	6.00	4.20	
Total BTEx	<0.300	0.300	06/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	06/08/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.3 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/07/2021	Sampling Date:	06/07/2021
Reported:	06/08/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	** (See Notes)
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: EW 3 (H211455-04)**

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	06/08/2021	ND	1.98	98.8	2.00	1.23	
Toluene*	<0.050	0.050	06/08/2021	ND	2.01	100	2.00	3.72	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	1.96	97.9	2.00	4.35	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	5.87	97.9	6.00	4.20	
Total BTEx	<0.300	0.300	06/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	06/08/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.0 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/07/2021	Sampling Date:	06/07/2021
Reported:	06/08/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	** (See Notes)
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: NW 1 (H211455-05)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2021	ND	1.98	98.8	2.00	1.23		
Toluene*	<0.050	0.050	06/08/2021	ND	2.01	100	2.00	3.72		
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	1.96	97.9	2.00	4.35		
Total Xylenes*	<0.150	0.150	06/08/2021	ND	5.87	97.9	6.00	4.20		
Total BTEx	<0.300	0.300	06/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	06/08/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.0 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	06/07/2021	Sampling Date:	06/07/2021
Reported:	06/08/2021	Sampling Type:	Soil
Project Name:	HUCKLEBERRY 22 STATE COM CTB	Sampling Condition:	** (See Notes)
Project Number:	14014	Sample Received By:	Tamara Oldaker
Project Location:	CONOCO PHILLIPS - LEA CO NM		

**Sample ID: NW 2 (H211455-06)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/08/2021	ND	1.98	98.8	2.00	1.23		
Toluene*	<0.050	0.050	06/08/2021	ND	2.01	100	2.00	3.72		
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	1.96	97.9	2.00	4.35		
Total Xylenes*	<0.150	0.150	06/08/2021	ND	5.87	97.9	6.00	4.20		
Total BTEx	<0.300	0.300	06/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	06/08/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.6 % 38.9-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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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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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 9 of 9

Company Name: Etech Environmental & Safety Solutions, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>															
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: P.O. Box 301				Company: Canoco Phillips																			
City: Lovington		State: NM		Zip: 88260		Attn:																	
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:		City:																	
Project #: 14014		Project Owner: Canoco Phillips		State:		Zip:																	
Project Name: Huckleberry 22 State Cor CTS				Phone #:																			
Project Location: Rural Lea County, NM				Fax #:																			
Sampler Name: Miguel Ramirez																							
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		(GRAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING													
						GROUNDWATER																	
						WASTEWATER																	
						SOIL																	
						OIL																	
						SLUDGE																	
						OTHER:																	
						ACID/BASE:																	
						ICE / COOL																	
						OTHER:																	
										DATE		TIME											
H211455				C 1		X		X		6/7/21		6/7/21		X X X									
1 SW3		C 1		X		X		X		6/7/21		6/7/21		X X X									
2 SW4		C 1		X		X		X		6/7/21		6/7/21		X X X									
3 EW2		C 1		X		X		X		6/7/21		6/7/21		X X X									
4 EW3		C 1		X		X		X		6/7/21		6/7/21		X X X									
5 NW1		C 1		X		X		X		6/7/21		6/7/21		X X X									
6 NW2		C 1		X		X		X		6/7/21		6/7/21		X X X									

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 the client for the analyses. All claims including those for negligence and any other cause whatsoever 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 6-7-21	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1640		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		Rush Please	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	Please email results to pm@etechenv.com.	
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)		
9.0c #13	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	JO		

FORM-006  
Revision 1.0

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

**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

CONDITIONS

Action 35968

**CONDITIONS**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 35968
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
chensley	COG's deferral requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first is approved. The deferred C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	8/17/2021