

Incident ID	nAPP2202148700
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>65</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

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

Printed Name: Jacqui Harris Title: Sr. Environmental Engineer

Signature:  Date: 8.24.22

email: Jacqui.Harris@conocophillips.com Telephone: (575)745-1807

OCD Only

Received by: Jocelyn Harimon Date: 08/25/2022

Incident ID	nAPP2202148700
District RP	
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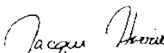
Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jacqui Harris Title: Sr. Environmental Engineer
Signature:  Date: 8.24.22
email: Jacqui.Harris@conocophillips.com Telephone: (575)745-1807

OCD Only

Received by: Jocelyn Harimon Date: 08/25/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.


Closure Approved by:  Date: 10/27/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A

Remediation Summary & Soil Closure Request

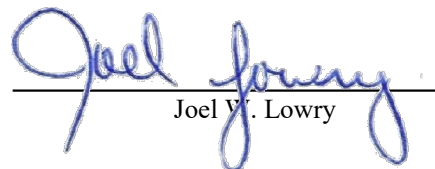
COG Operating, LLC
Boo Radley Fed Com 701H, 702H & 703H
Eddy County, New Mexico
Unit Letter "O", Section 16, Township 26 South, Range 28 East
Latitude 32.035742 North, Longitude 104.088185 West
NMOCD Reference No. nAPP2202148700

Prepared By:

Etech Environmental & Safety Solutions, Inc.
2507 79th Street, Unit A
Lubbock, Texas 79423



Ben J. Arguijo



Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Boo Radley Fed Com 701H, 702H & 703H (henceforth, "Boo Radley"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.035742 Longitude: -104.0881850

Provided GPS are in WGS84 format.

Site Name: Boo Radley Fed Com 701H, 702H & 703H	Site Type: Tank Battery
Date Release Discovered: 12/18/2021	API # (if applicable): 30-015-47347

Unit Letter	Section	Township	Range	County
"O"	16	26S	28E	Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name _____)

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 200	Volume Recovered (bbls) 195
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

Water Transfer over filled the working tanks between stages. The overfill resulted in 200 bbls of treated produced water being released, with 195 bbls captured in secondary containment and five (5) bbls being released to the ground on location.

Initial Response

<input checked="" type="checkbox"/> The source of the release has been stopped.
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.
<input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.

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

2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release?	65'	
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
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

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 Boo Radley release site are as follows:

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

* Measured in milligrams per kilogram (mg/kg)

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

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

4.0 REGULATORY CORRESPONDENCE

On March 18, 2022, an extension request was submitted to the NMOCD asking for additional time to prepare a Work Plan or Closure Report, as the release site was inaccessible due to ongoing drilling activities. The extension request was subsequently approved by the NMOCD.

Copies of all regulatory correspondence are provided in Appendix E.

5.0 SITE ASSESSMENT

On February 8, 2022, Etech conducted an initial site assessment. During the initial site assessment, three (3) hand-augered soil bores (V1, V2, and V3) were advanced to the point of refusal within the release margins in an effort to determine the vertical extent of impacted soil. In addition, a series of hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data, a total of 14 delineation soil samples (NH @ 0', NH @ 1', EHC @ 0', EH @ 1', SHC @ 0', SH @ 1', WH @ 0', WH @ 1', V1 @ 0', V1 @ 1' - R, V2 @ 0', V2 @ 1' - R, V3 @ 0', and V3 @ 1' - R) were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal extent of impacted soil was adequately defined to the north and west, and soil was not affected above the NMOCD Closure Criteria beyond one (1) foot below ground surface (bgs) in the area characterized by sample point V1. However, additional horizontal delineation was required to the east and south, and additional vertical delineation was required in the areas characterized by sample points V2 and V3.

On April 22, 2022, Etech continued the site assessment. Hand-augered soil bores V2 and V3 were further advanced in an effort to determine the vertical extent of impacted soil. An additional series of hand-augered soil bores were also advanced along the eastern and southern margins of the inferred affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of VOCs utilizing olfactory/visual senses and/or concentrations of chloride utilizing a chloride test kit.

Based on field observations and field test data, a total of six (6) delineation soil samples (EHI @ 0', EHI @ 1', SHH @ 0', SHH @ 1', V2 @ 6', and V3 @ 6') were submitted to the laboratory for analysis of TPH and/or chloride. Based on laboratory analytical results, the horizontal extent of impacted soil was adequately defined to the east and south, and soil was not affected above the NMOCD Closure Criteria beyond six (6) feet bgs in the areas characterized by sample points V2 and V3.

On June 14, 2022, Etech advanced two (2) additional hand-augered soil bores (EH2 and SH2) along the eastern and southern margins of the inferred affected area to confirm that the horizontal extent of impacted soil had been fully delineated. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of VOCs utilizing olfactory/visual senses and/or concentrations of chloride utilizing a chloride test kit.

Based on field observations and field test data, a total of four (4) delineation soil samples (EH2 @ Surface, EH2 @ 1', SH2 @ Surface, and SH2 @ 1') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal extent of impacted soil was adequately defined.

The locations of the hand-augered soil bores are depicted in Figure 3, "Site & Sample Location Map".

6.0 REMEDIATION ACTIVITIES SUMMARY

On July 7, 2022, remediation activities commenced at the release site following the cessation of fracking activities and the deconstruction and removal of the frac tanks and associated containment areas, pumps, pipes, appurtenances, electrical facilities, and other miscellaneous equipment. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 50 linear feet from the excavation sidewalls and every 200 square feet from the floor of the excavated area to be submitted for laboratory analysis.

On July 7, 2022, Etech also collected 10 confirmation soil samples (FL 1 @ 6' through FL 5 @ 6' and FL 11 @ 5.5' through FL 15 @ 5.5') 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 NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from 96.0 mg/kg in soil sample FL 14 @ 5.5' to 352 mg/kg in soil sample FL 1 @ 6'.

On July 8, 2022, Etech collected 21 confirmation soil samples (EW1, FL 21 @ 5.5' through FL 25 @ 5.5', FL 31 @ 5.5' through FL 35 @ 5.5', FL 41 @ 5.5' through FL 45 @ 5.5', and FL 51 @ 5.5' through FL 55 @ 5.5') 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 NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 64.0 mg/kg in soil samples FL 33 @ 5.5' and FL 42 @ 5.5' to 272 mg/kg in soil sample EW1.

On July 11, 2022, Etech collected 24 confirmation soil samples (NW1 through NW4, FL 61 @ 5.5' through FL 65 @ 5.5', FL 71 @ 5.5' through FL 75 @ 5.5', FL 81 @ 5.5' through FL 85 @ 5.5', and FL 91 @ 5.5' FL 95 @ 5.5') 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 NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil samples FL 61 @ 5.5', FL 62 @ 5.5', and FL 63 @ 5.5' to 240 mg/kg in soil sample NW3.

On July 13, 2022, Etech collected 37 confirmation soil samples (EW2, SW1 through SW4, WW1, WW2, FL 6 @ 5.5' through FL 10 @ 5.5', FL 16 @ 5.5' through FL 20 @ 5.5', FL 26 @ 5.5' through FL 30 @ 5.5', FL 36 @ 5.5' through FL 40 @ 5.5', FL 46 @ 5.5' through FL 50 @ 5.5', and FL 56 @ 5.5' through FL 60 @ 5.5') 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 NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil samples FL 7 @ 5.5', FL 8 @ 5.5', FL 18 @ 5.5', FL 20 @ 5.5', and FL 57 @ 5.5' to 192 mg/kg in soil samples FL 28 @ 5.5', FL 29 @ 5.5', and FL 30 @ 5.5'.

On July 14, 2022, Etech collected 20 confirmation soil samples (FL 66 @ 5.5' through FL 70 @ 5.5', FL 76 @ 5.5' through FL 80 @ 5.5', FL 86 @ 5.5' through FL 90 @ 5.5', and FL 96 @ 5.5' through FL 100 @ 5.5') 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 NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil samples FL 68 @ 5.5' and FL 76 @ 5.5' to 64.0 mg/kg in soil sample FL 97 @ 5.5'.

The final dimensions of the excavated area were approximately 270 feet in length, 76 to 80 feet in width, and 5.5 to six (6) feet in depth. During the course of remediation activities, Etech transported approximately 3,060 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal. The excavated area was backfilled with an equivalent volume of non-impacted material reclaimed during the downsizing of the Boo Radley production pad.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the release site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D.

7.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

The release was limited to the containment area(s) and production pad of a fracking operation and did not impact the adjacent pasture. Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions and compacted/contoured to fit the needs of the facility. Final reclamation and revegetation will be conducted upon decommissioning and abandonment of the tank battery.

8.0 SOIL CLOSURE REQUEST

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

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

9.0 LIMITATIONS

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

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

10.0 DISTRIBUTION

COG Operating, LLC

*600 West Illinois Avenue
Midland, TX 79701*

New Mexico Energy, Minerals and Natural Resources Department

*Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210*

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
 Boo Radley Fed Com 701H, 702H & 703H
 GPS: 32.035742, -104.088185
 Eddy County, NM



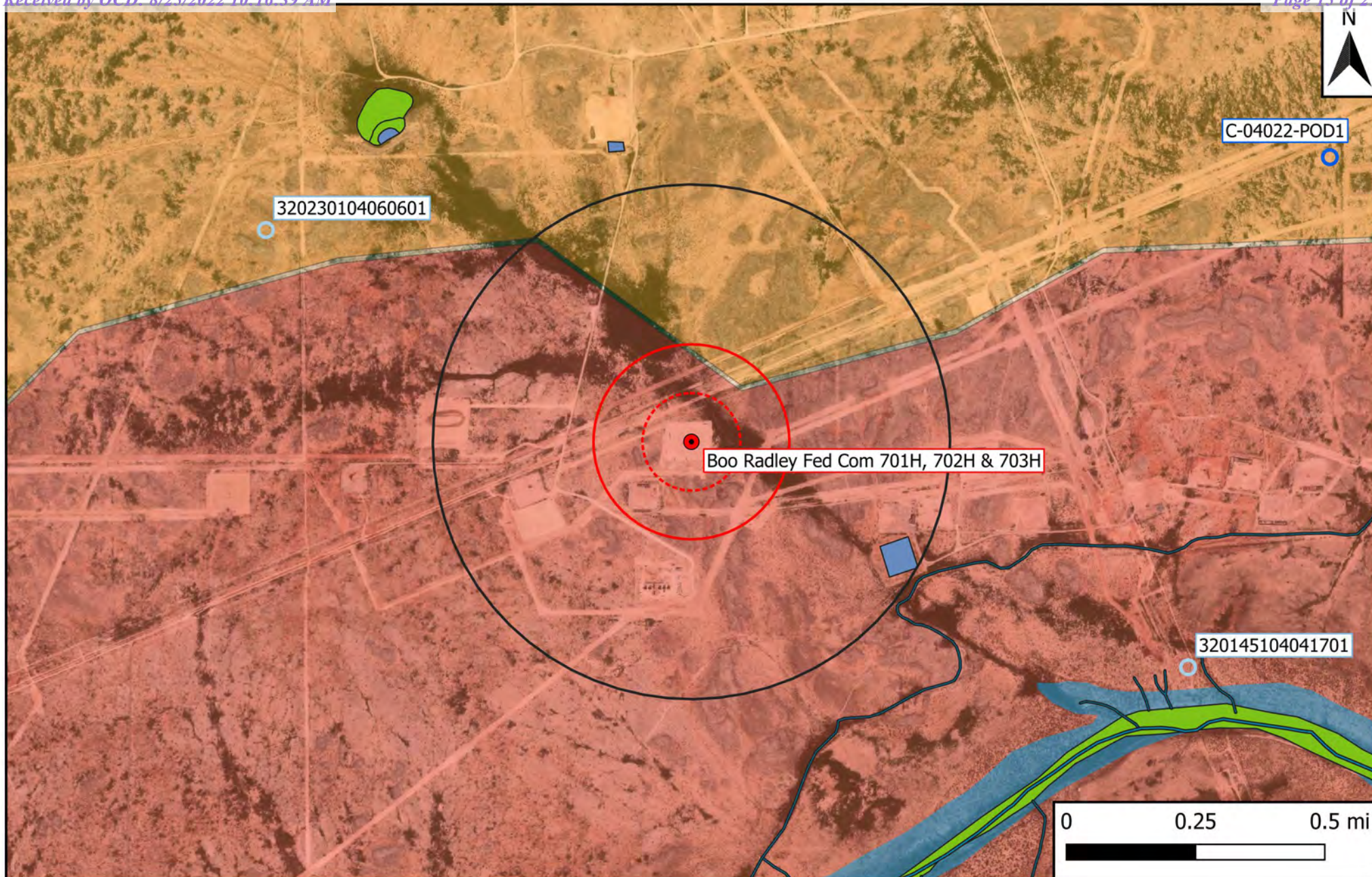
Drafted: bja

Checked: jwl

Date: 7/28/22

Figure 2

Site Characterization Map



Legend

- | | | |
|------------------------------|---------------------------------|--------------------|
| ● Site Location | 100-Year Floodplain | 500-Ft Radius |
| ○ Well - NMOSE | Emergent/Forested Wetlands | 1,000-Ft Radius |
| ○ Well - USGS | Freshwater Pond/Lake | 0.5-Mi Radius |
| ○ Well - Exploratory/Monitor | Karst Potential (Low/Med./High) | Municipal Boundary |
| — Potash Mine Workings | Riverine | |

Figure 2

Site Characterization Map
 COG Operating, LLC
 Boo Radley Fed Com 701H, 702H & 703H
 GPS: 32.035742, -104.088185
 Eddy County, NM



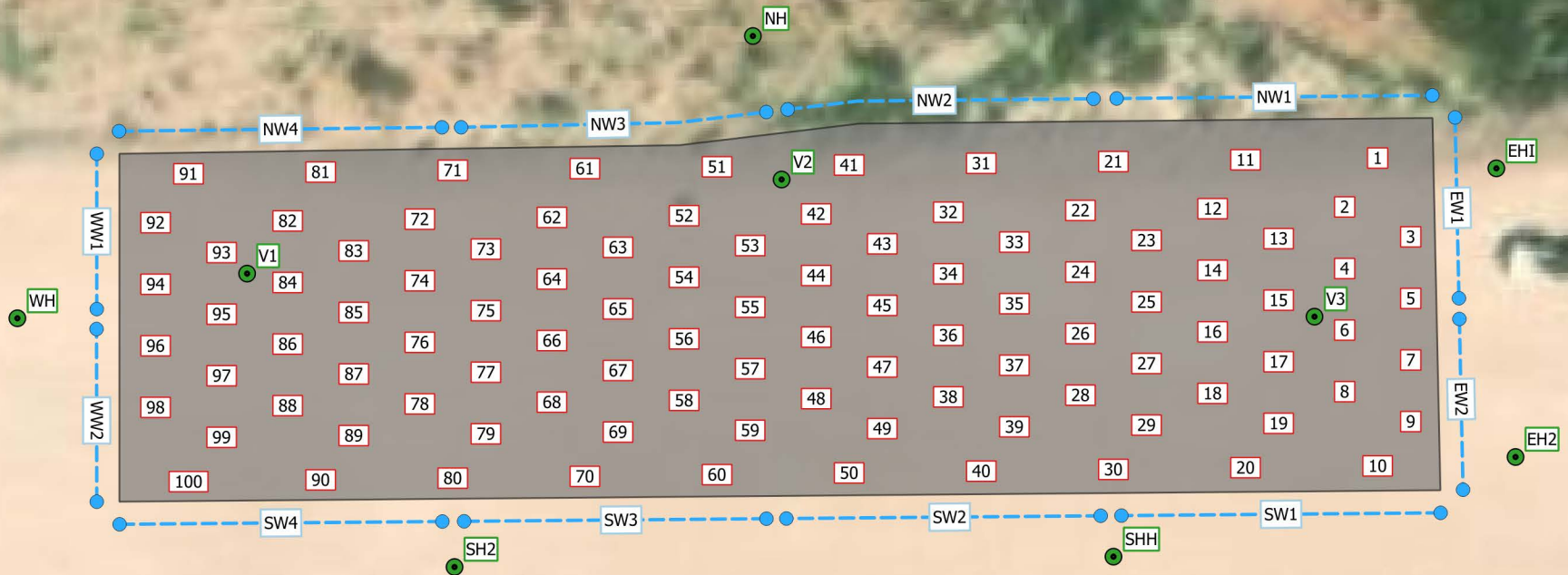
Drafted: bja

Checked: jwl

Date: 8/11/22

Figure 3

Site & Sample Location Map



Legend

- Excavation Extent
- Composite Floor Sample
- Composite Wall Sample
- Delineation Sample Location

Figure 3

Site & Sample Location Map
 COG Operating, LLC
 Boo Radley Fed Com 701H, 702H & 703H
 GPS: 32.035742, -104.088185
 Eddy County, NM



Drafted: bja

Checked: jwl

Date: 8/15/22

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil COG Operating, LLC Boo Radley Fed Com 701H, 702H & 703H NMOCD Reference #: nAPP2202148700											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
Delineation Samples											
NH @ 0'	2/8/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NH @ 1'	2/8/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EHC @ 0'	2/8/2022	0	Excavated	<0.050	<0.300	<10.0	10.0	10.0	<10.0	10.0	272
EH @ 1'	2/8/2022	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
EH1 @ 0'	4/22/2022	0	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH1 @ 1'	4/22/2022	1	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH2 @ Surface	6/14/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
EH2 @ 1'	6/14/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SHC @ 0'	2/8/2022	0	Excavated	<0.050	<0.300	<10.0	45.5	45.5	<10.0	45.5	528
SH @ 1'	2/8/2022	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	768
SHH @ 0'	4/22/2022	0	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SHH @ 1'	4/22/2022	1	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SH2 @ Surface	6/14/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SH2 @ 1'	6/14/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
WH @ 0'	2/8/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
WH @ 1'	2/8/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
V1 @ 0'	2/8/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	896
V1 @ 1' - R	2/8/2022	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
V2 @ 0'	2/8/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,600
V2 @ 1' - R	2/8/2022	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,000
V2 @ 6'	4/22/2022	6	In-Situ	-	-	-	-	-	-	-	144
V3 @ 0'	2/8/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,800
V3 @ 1' - R	2/8/2022	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,800
V3 @ 6'	4/22/2022	6	In-Situ	-	-	-	-	-	-	-	128
Excavation Samples											
NW1	7/11/2022	1-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW2	7/11/2022	1-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW3	7/11/2022	1-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
NW4	7/11/2022	1-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
EW1	7/8/2022	1-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
EW2	7/13/2022	1-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW1	7/13/2022	1-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW2	7/13/2022	1-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW3	7/13/2022	1-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW4	7/13/2022	1-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
WW1	7/13/2022	1-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
WW2	7/13/2022	1-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 1 @ 6'	7/7/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 2 @ 6'	7/7/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 3 @ 6'	7/7/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 4 @ 6'	7/7/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288

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
Boo Radley Fed Com 701H, 702H & 703H
NMOCD Reference #: nAPP2202148700

NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 5 @ 6'	7/7/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 6 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 7 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 8 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 9 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 10 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 11 @ 5.5'	7/7/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 12 @ 5.5'	7/7/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 13 @ 5.5'	7/7/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 14 @ 5.5'	7/7/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 15 @ 5.5'	7/7/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 16 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 17 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 18 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 19 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 20 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 21 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 22 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 23 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 24 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 25 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 26 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 27 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 28 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 29 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 30 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 31 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 32 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 33 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 34 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 35 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 36 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 37 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 38 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 39 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 40 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 41 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 42 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 43 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 44 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 45 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 46 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112

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
Boo Radley Fed Com 701H, 702H & 703H
NMOCD Reference #: nAPP2202148700

NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 47 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 48 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 49 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 50 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 51 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 52 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 53 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 54 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 55 @ 5.5'	7/8/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 56 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 57 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 58 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 59 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 60 @ 5.5'	7/13/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 61 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 62 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 63 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 64 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 65 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 66 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 67 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 68 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 69 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 70 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 71 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 72 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 73 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 74 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 75 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 76 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 77 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 78 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 79 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 80 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 81 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 82 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 83 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 84 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 85 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 86 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 87 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 88 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

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 Boo Radley Fed Com 701H, 702H & 703H NMOCD Reference #: nAPP2202148700											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 89 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 90 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 91 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 92 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 93 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 94 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 95 @ 5.5'	7/11/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 96 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 97 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 98 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 99 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 100 @ 5.5'	7/14/2022	5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

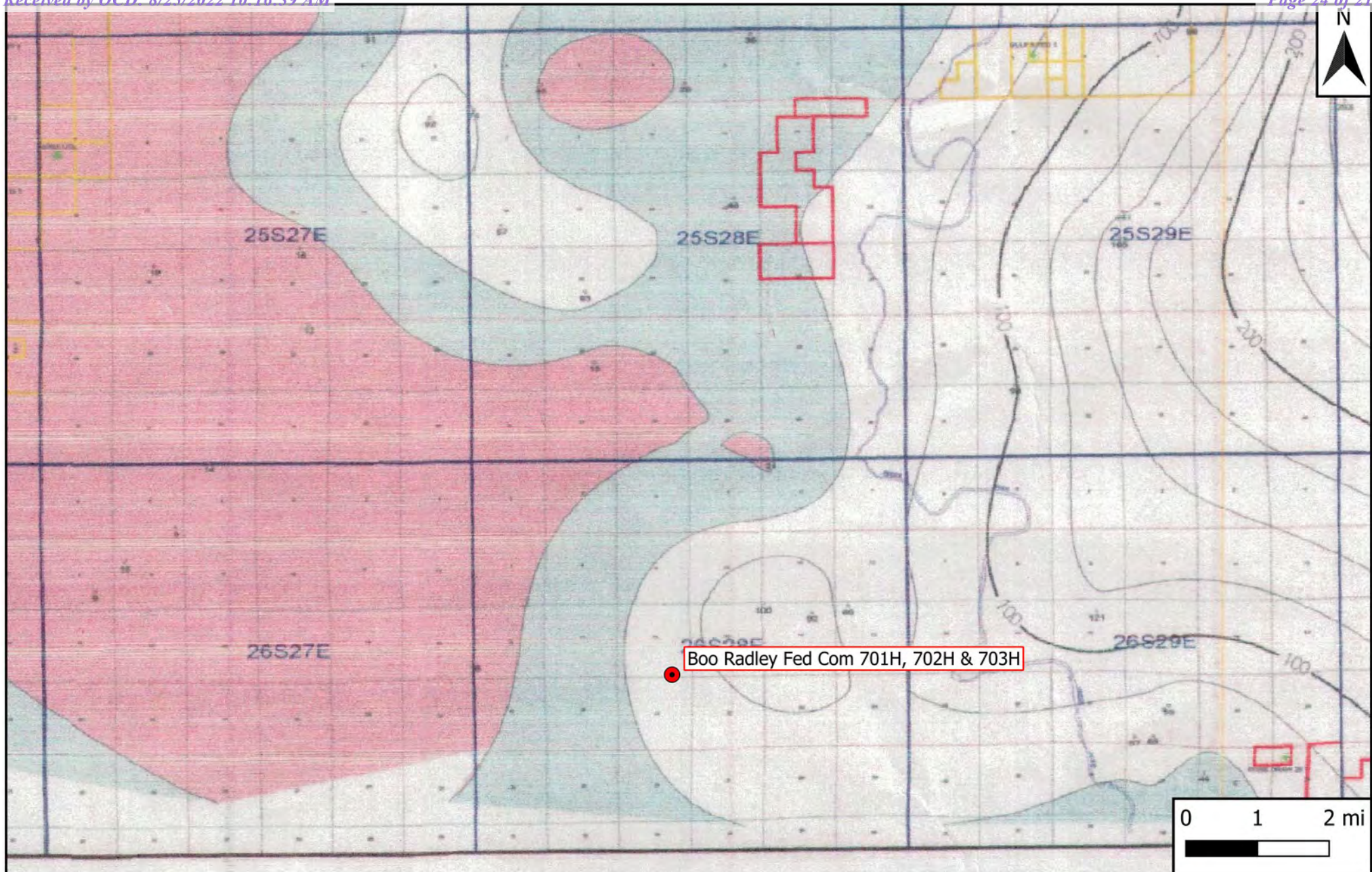
Dash (-): Sample not analyzed for that constituent.

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
Boo Radley Fed Com 701H, 702H & 703H
GPS: 32.035742, -104.088185
Eddy County, NM



Drafted: bja

Checked: jwl

Date: 7/28/22



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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tw	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C_02160_S7		CUB	ED	3	3	1	22	26S	28E	586638	3543998*	936	300	120	180

Average Depth to Water: **120 feet**

Minimum Depth: **120 feet**

Maximum Depth: **120 feet**

Record Count: 1

UTM NAD83 Radius Search (in meters):

Easting (X): 586093.97

Northing (Y): 3544760.84

Radius: 1610

*UTM location was derived from PLSS - see Help

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

1/25/22 2:29 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

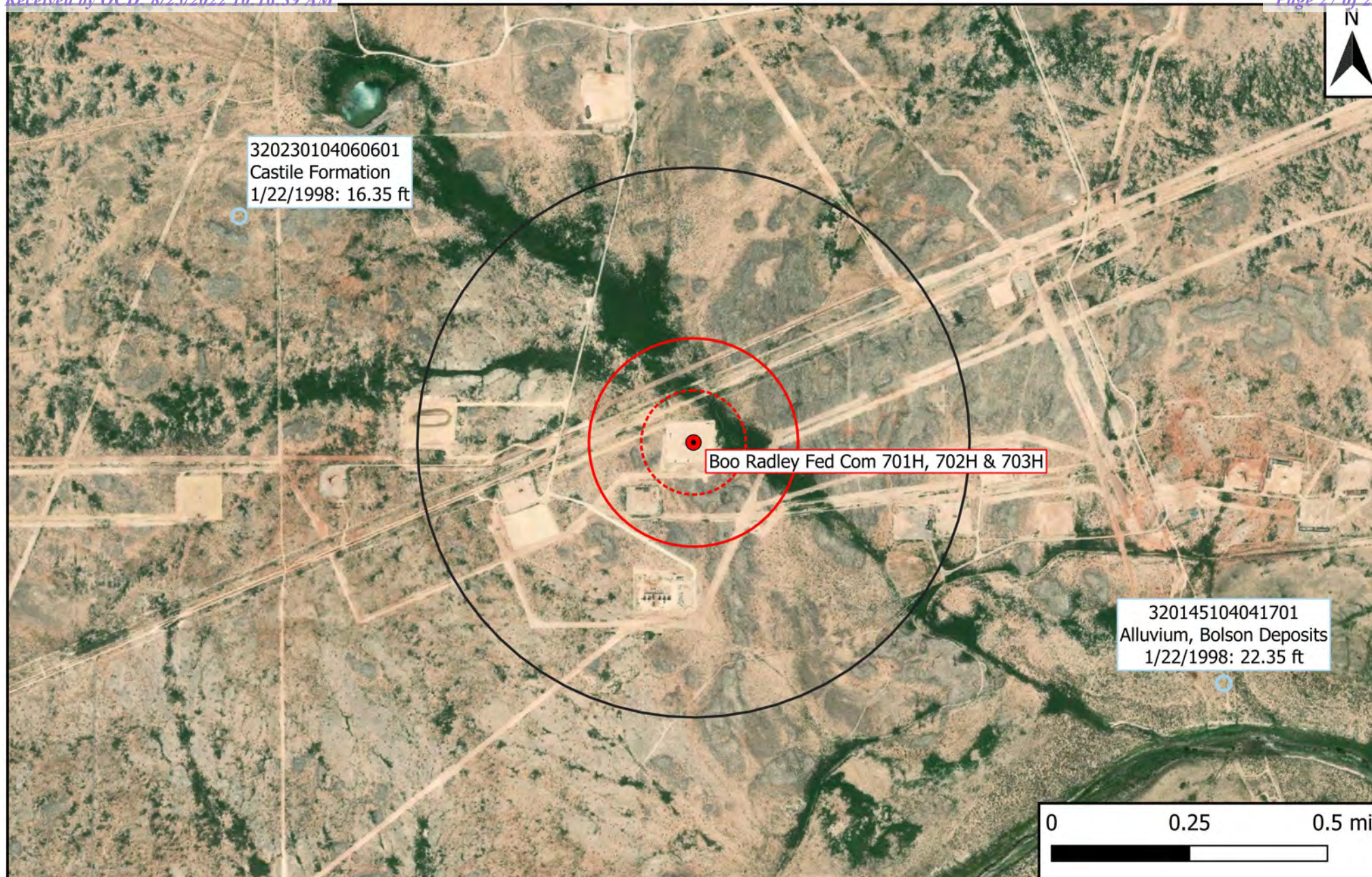
		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02160 S7	3	3	1	22	26S	28E	586638	3543998*
Driller License:		Driller Company:							
Driller Name:		HEMLER							
Drill Start Date:		Drill Finish Date:				01/01/1961		Plug Date:	
Log File Date:		PCW Rcv Date:						Source:	
Pump Type:		Pipe Discharge Size:						Estimated Yield:	
Casing Size:		Depth Well:				300 feet		Depth Water:	
								120 feet	

*UTM location was derived from PLSS - see Help

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

1/25/22 2:29 PM

POINT OF DIVERSION SUMMARY



Legend

- Site Location
- Well - USGS
- ⊞ 500-Ft Radius
- ⊞ 1,000-Ft Radius
- ⊞ 0.5-Mi Radius

Figure 5

USGS Well Proximity Map
COG Operating, LLC
Boo Radley Fed Com 701H, 702H & 703H
GPS: 32.035742, -104.088185
Eddy County, NM



Drafted: bja

Checked: jwl

Date: 7/28/22



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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

United States

GO



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Groundwater levels for the Nation



Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320145104041701

Minimum number of levels = 1

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

USGS 320145104041701 26S.28E.22.234431

Eddy County, New Mexico

Latitude 32°01'45", Longitude 104°04'17" NAD27

Land-surface elevation 2,980 feet above NGVD29

The depth of the well is 23.00 feet below land surface.

This well is completed in the Other aquifers (N99990THER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1987-12-12		D	72019	21.02			1	S			A
1998-01-22		D	72019	22.35			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.
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

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



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

Page Last Modified: 2022-08-10 17:28:05 EDT

0.28 0.23 nadww01



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Data Category:

Groundwater

Geographic Area:

United States

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Groundwater levels for the Nation



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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320230104060601

Minimum number of levels = 1

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

USGS 320230104060601 26S.28E.18.33111

Eddy County, New Mexico

Latitude 32°02'30", Longitude 104°06'06" NAD27

Land-surface elevation 3,070 feet above NAVD88

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

This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
			72019								
1981-05-01		D	72019	17.52			1	Z			A
1983-01-25		D	72019	16.25			1	Z			A
1987-10-13		D	72019	15.13			1	Z			A
1992-11-03		D	72019	17.63			1	S			A
1998-01-22		D	72019	16.35			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

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



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

Page Last Modified: 2022-08-10 17:29:33 EDT

0.28 0.23 nadww01

Appendix B

Field Data



Sample Log

Date:

2/8/22

Project: Boo Radley Fed Com 701H, 702H & 703H

Project Number:

15570

Latitude:

32.035742

Longitude:

-104.088185

Sample ID	PID/Odor	Chloride Conc.	GPS
WHCO'	—	3	384
WHCO'	—	3.2	424
NHCO'	—	2	204
NHCO'	—	1.4	120
EHCO'	—	5.4	1072 *
EHCO'	—	3.6	516
SHCO'	—	5.6	1152 *
SHCO'	—	3.0	568
EHBCO'	—	4	600 620
SHBCO'	—	4.8	856
VCO'	—	4.8	856
V1CO' - R	—	3.4	468
EHCO'	—	2	204
SHCO'	—	3.6	516
V3CO'	—	9	72500
V3CO' R	—	6.2	1428
V2CO'	—	9	72500
V2CO' R	—	9	72500
			4/22/22
V2 @ 2'	Slight	10	> 2932
V2 @ 3'	—	10	> 2932
V3 @ 2'	—	4.6	740
V3 @ 3'	—	4.4	600
V2 @ 4'	?	6.4	1396
V2 @ 5'	—	6.8	1996
V2 @ 6'	—	3.4	432
V3 @ 4'	—	4.4	680
V3 @ 5'	—	4.2	628
V3 @ 6'	—	3.0	348
EHCO'	—	5.2	928
EHCO'	—	3.2	388
EHCO'	—	4.4	704
EHCO'	—	3.0	352
EHCO'	—	9.2	72584
EHCO'	—	3.8	534
EHCO'	—	3.8	536

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:

9/22/22

Project:

Project Number:

15520

Latitude:

Longitude:

Sample ID	PID/Odor	Chloride Conc.	GPS
SHD @ 0'	—	7.2 1940	
SHD @ 1'	—	5.6 1124	
SHD @ 0'	—	5.0 900	
SHD @ 1'	—	4.0 592	
SHF @ 0'	—	9.0 72584	
SHG @ 8'	—	3.6 488	
SHG @ 1'	—	4.2 614	
SHH @ 0'	—	1.6 136	
SHH @ 1'	—	3.2 396	
SHH @ 0'	—	1.0 72584	
EH1 @ 0'	—	3.4 440	
EH1 @ 1'	—	2.6 316	
6/14/22	—	5.2 748	
EHA	—	6.2 1348	
EHB	—	5.2 748	
EH C	—	9.0 2552	
EHP	—	6.2 1345	
EHE-2	—	5.0 900	
SH-2 A	—	5.6 1076	
SH-2 B	—	5.2 950	
SH-2 C	—	6.6 1544	
SH-2 D	—	6.8 1652	
SH-2 E	—	6.0 1575	
SH-2 F	—	5.8 1176	
EH2 F (Pasture 20 ft)	—	3.4	
EH2 F @ 1'	—	3.0	
SH2 G (Pasture 15')	—	3.2	
SH2 G @ 1'	—	2.6	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

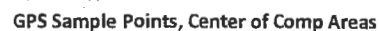
Refusal = SP #1 @ 4'-R

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
EW2	—	416	
FL16 @ 5 1/2	—	372	
FL17 @ 5 1/2	—	416	
FL18 @ 5 1/2	—	296	
FL19 @ 5 1/2	—	372	
FL20 @ 5 1/2	—	472	
SW2	—	416	
FL26 @ 5 1/2	—	536	
FL27 @ 5 1/2	—	416	
FL28 @ 5 1/2	—	536	
FL29 @ 5 1/2	—	416	
FL30 @ 5 1/2	—	536	
FL36 @ 5 1/2	—	536	
FL37 @ 5 1/2	—	304	
FL38 @ 5 1/2	—	416	
FL39 @ 5 1/2	—	296	
FL40 @ 5 1/2	—	200	
SW3	—	200	
SW4	—	372	
FL46 @ 5 1/2	—	416	
FL47 @ 5 1/2	—	296	
FL48 @ 5 1/2	—	200	
FL49 @ 5 1/2	—	372	
FL50 @ 5 1/2	—	416	
WW2	—	260	
FL56 @ 5 1/2	—	416	
FL57 @ 5 1/2	—	296	
FL58 @ 5 1/2	—	200	
FL59 @ 5 1/2	—	200	
FL60 @ 5 1/2	—	304	
	—		

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
FL61 @ 5 1/2	—	316	
FL62 @ 5 1/2	—	400	
FL63 @ 5 1/2	—	316	
FL64 @ 5 1/2	—	180	
FL65 @ 5 1/2	—	536	
FL71 @ 5 1/2	—	112	
FL72 @ 5 1/2	—	280	
FL73 @ 5 1/2	—	356	
FL74 @ 5 1/2	—	280	
FL75 @ 5 1/2	—	316	
NW1	—	280	
NW2	—	112	
NW3	—	488	
NW4	—	536	
FL81	—	180	
FL82	—	180	
FL83 @ 5 1/2	—	112	
FL84 @ 5 1/2	—	280	
FL85 @ 5 1/2	—	280	
FL91 @ 5 1/2	—	112	
FL92 @ 5 1/2	—	180	
FL93 @ 5 1/2	—	280	
FL94 @ 5 1/2	—	356	
FL95 @ 5 1/2	—	316	
[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	
[REDACTED]	[REDACTED]	[REDACTED]	
NW1 @ 5 1/2	—	480	
FL6 @ 5 1/2	—	296	
FL7 @ 5 1/2	—	416	
FL8 @ 5 1/2	—	372	
FL9 @ 5 1/2	—	372	
FL16 @ 5 1/2	—	416	
SW1	—	416	

Sample Point = SP #1 @ ## etc 4-Dump = FL 100, 600

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc 7-11-22

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc 111

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

Appendix C

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: East	
Photo Description: View of the affected area.	

Photo Number: 2	
Photo Direction: East	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 3	 <p>Boo Radley +32.036181,-104.088487 Feb 8, 2022 at 10:42:33 AM</p>
Photo Direction: East	
Photo Description: View of the affected area.	

Photo Number: 4	 <p>Boo Radley +32.036152,-104.088362 Feb 8, 2022 at 10:43:02 AM</p>
Photo Direction: East	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 5	 <p>Boo Radley +32.036152,-104.088362 Feb 8, 2022 at 10:43:26 AM</p>
Photo Direction: East-Southeast	
Photo Description: View of the affected area.	

Photo Number: 6	 <p>Boo Radley +32.036140,-104.088117 Feb 8, 2022 at 10:45:10 AM</p>
Photo Direction: Southeast	
Photo Description: View of the affected area.	

Photographic Log



Photo Number: 7	
Photo Direction: North	
Photo Description: View of the affected area.	

Photo Number: 8	
Photo Direction: East	
Photo Description: View of the affected area following removal of fracking facilities, prior to excavation.	

Photographic Log



Photo Number: 9	<div>7/18/22, 9:17 AM +32.036036,-104.087903 88220 Eddy County</div>  A photograph showing a wide, shallow excavation in a dry, sandy area. The ground is light brown and uneven. In the foreground on the right, there is an orange and white traffic cone. In the background, there are several utility poles with power lines stretching across the horizon under a clear blue sky.
Photo Direction: Northwest	
Photo Description: View of the excavated area.	

Photo Number: 10	<div>7/18/22, 9:17 AM +32.036249,-104.087885 88220 Eddy County</div>  A photograph showing a different view of the excavated area. The ground is sandy and uneven. In the background, there are utility poles and a clear blue sky. The excavation appears to be a long, narrow trench or a series of connected pits.
Photo Direction: West-Southwest	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 11	 <p>7/18/22, 9:18 AM +32.036356,-104.087905 88220 Eddy County</p>
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photo Number: 12	 <p>7/18/22, 9:19 AM +32.036117,-104.088167 88220 Eddy County</p>
Photo Direction: Northwest	
Photo Description: View of the excavated area.	

Photographic Log


Photo Number: 13	 <p>7/27/22, 5:13 PM +32.036080,-104.088685 88220 Eddy County</p>
Photo Direction: East	
Photo Description: View of the remediated area after backfilling and regrading.	

Photo Number: 14	 <p>7/27/22, 5:10 PM +32.036264,-104.087918 88220 Eddy County</p>
Photo Direction: West	
Photo Description: View of the remediated area after backfilling and regrading.	

Appendix D

Laboratory Analytical Reports



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

February 14, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BOO RADLEY FED COM 701H, 702H & 703H

Enclosed are the results of analyses for samples received by the laboratory on 02/09/22 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	02/09/2022	Sampling Date:	02/08/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: NH @ 0' (H220496-01)

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	02/11/2022	ND	2.10	105	2.00	3.40	
Toluene*	<0.050	0.050	02/11/2022	ND	2.07	103	2.00	4.16	
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	2.08	104	2.00	4.25	
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.40	107	6.00	4.40	
Total BTEX	<0.300	0.300	02/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	48.0	16.0	02/10/2022	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2022	ND	201	100	200	3.00	
DRO >C10-C28*	<10.0	10.0	02/11/2022	ND	246	123	200	6.37	
EXT DRO >C28-C36	<10.0	10.0	02/11/2022	ND					

Surrogate: 1-Chlorooctane 66.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 75.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/09/2022	Sampling Date:	02/08/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: NH @ 1' (H220496-02)

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	02/11/2022	ND	2.10	105	2.00	3.40	
Toluene*	<0.050	0.050	02/11/2022	ND	2.07	103	2.00	4.16	
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	2.08	104	2.00	4.25	
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.40	107	6.00	4.40	
Total BTEx	<0.300	0.300	02/11/2022	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	<16.0	16.0	02/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2022	ND	201	100	200	3.00	
DRO >C10-C28*	<10.0	10.0	02/11/2022	ND	246	123	200	6.37	
EXT DRO >C28-C36	<10.0	10.0	02/11/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/09/2022	Sampling Date:	02/08/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: EHC @ 0' (H220496-03)

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	02/11/2022	ND	2.10	105	2.00	3.40	
Toluene*	<0.050	0.050	02/11/2022	ND	2.07	103	2.00	4.16	
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	2.08	104	2.00	4.25	
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.40	107	6.00	4.40	
Total BTX	<0.300	0.300	02/11/2022	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	272	16.0	02/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2022	ND	201	100	200	3.00	
DRO >C10-C28*	10.0	10.0	02/11/2022	ND	246	123	200	6.37	
EXT DRO >C28-C36	<10.0	10.0	02/11/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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Analytical Results For:

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

Received:	02/09/2022	Sampling Date:	02/08/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: EH @ 1' (H220496-04)

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	02/11/2022	ND	2.10	105	2.00	3.40	
Toluene*	<0.050	0.050	02/11/2022	ND	2.07	103	2.00	4.16	
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	2.08	104	2.00	4.25	
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.40	107	6.00	4.40	
Total BTX	<0.300	0.300	02/11/2022	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	608	16.0	02/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2022	ND	201	100	200	3.00	
DRO >C10-C28*	<10.0	10.0	02/11/2022	ND	246	123	200	6.37	
EXT DRO >C28-C36	<10.0	10.0	02/11/2022	ND					

Surrogate: 1-Chlorooctane 80.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.7 % 59.5-142

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Analytical Results For:

Etech Environmental & Safety Solutions
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 Fax To:

Received:	02/09/2022	Sampling Date:	02/08/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SHC @ 0' (H220496-05)

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	02/11/2022	ND	2.10	105	2.00	3.40		
Toluene*	<0.050	0.050	02/11/2022	ND	2.07	103	2.00	4.16		
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	2.08	104	2.00	4.25		
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.40	107	6.00	4.40		
Total BTX	<0.300	0.300	02/11/2022	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	528	16.0	02/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2022	ND	201	100	200	3.00	
DRO >C10-C28*	45.5	10.0	02/11/2022	ND	246	123	200	6.37	
EXT DRO >C28-C36	<10.0	10.0	02/11/2022	ND					

Surrogate: 1-Chlorooctane 82.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.0 % 59.5-142

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Analytical Results For:

Etech Environmental & Safety Solutions
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 HOBBS NM, 88240
 Fax To:

Received:	02/09/2022	Sampling Date:	02/08/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SH @ 1' (H220496-06)

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	02/11/2022	ND	2.10	105	2.00	3.40	
Toluene*	<0.050	0.050	02/11/2022	ND	2.07	103	2.00	4.16	
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	2.08	104	2.00	4.25	
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.40	107	6.00	4.40	
Total BTX	<0.300	0.300	02/11/2022	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	768	16.0	02/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2022	ND	201	100	200	3.00	
DRO >C10-C28*	<10.0	10.0	02/11/2022	ND	246	123	200	6.37	
EXT DRO >C28-C36	<10.0	10.0	02/11/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/09/2022	Sampling Date:	02/08/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: WH @ 0' (H220496-07)

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	02/11/2022	ND	2.10	105	2.00	3.40		
Toluene*	<0.050	0.050	02/11/2022	ND	2.07	103	2.00	4.16		
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	2.08	104	2.00	4.25		
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.40	107	6.00	4.40		
Total BTX	<0.300	0.300	02/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	272	16.0	02/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2022	ND	201	100	200	3.00	
DRO >C10-C28*	<10.0	10.0	02/11/2022	ND	246	123	200	6.37	
EXT DRO >C28-C36	<10.0	10.0	02/11/2022	ND					

Surrogate: 1-Chlorooctane 80.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.3 % 59.5-142

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Analytical Results For:

Etech Environmental & Safety Solutions
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 Fax To:

Received:	02/09/2022	Sampling Date:	02/08/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: WH @ 1' (H220496-08)

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	02/11/2022	ND	2.10	105	2.00	3.40	
Toluene*	<0.050	0.050	02/11/2022	ND	2.07	103	2.00	4.16	
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	2.08	104	2.00	4.25	
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.40	107	6.00	4.40	
Total BTX	<0.300	0.300	02/11/2022	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	336	16.0	02/10/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2022	ND	201	100	200	3.00	
DRO >C10-C28*	<10.0	10.0	02/11/2022	ND	246	123	200	6.37	
EXT DRO >C28-C36	<10.0	10.0	02/11/2022	ND					

Surrogate: 1-Chlorooctane 83.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/09/2022	Sampling Date:	02/08/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: V 1 @ 0' (H220496-09)

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	02/11/2022	ND	2.10	105	2.00	3.40		
Toluene*	<0.050	0.050	02/11/2022	ND	2.07	103	2.00	4.16		
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	2.08	104	2.00	4.25		
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.40	107	6.00	4.40		
Total BTX	<0.300	0.300	02/11/2022	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	896	16.0	02/10/2022	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: CK							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/11/2022	ND	201	100	200	3.00		
DRO >C10-C28*	<10.0	10.0	02/11/2022	ND	246	123	200	6.37		
EXT DRO >C28-C36	<10.0	10.0	02/11/2022	ND						

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 128 % 59.5-142

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

Received:	02/09/2022	Sampling Date:	02/08/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: V 1 @ 1' - R (H220496-10)

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	02/11/2022	ND	2.10	105	2.00	3.40		
Toluene*	<0.050	0.050	02/11/2022	ND	2.07	103	2.00	4.16		
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	2.08	104	2.00	4.25		
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.40	107	6.00	4.40		
Total BTEx	<0.300	0.300	02/11/2022	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	560	16.0	02/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2022	ND	196	98.0	200	1.81	
DRO >C10-C28*	<10.0	10.0	02/11/2022	ND	194	96.8	200	8.34	
EXT DRO >C28-C36	<10.0	10.0	02/11/2022	ND					

Surrogate: 1-Chlorooctane 67.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.0 % 59.5-142

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

Received:	02/09/2022	Sampling Date:	02/08/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: V 2 @ 0' (H220496-11)

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	02/11/2022	ND	2.10	105	2.00	3.40	
Toluene*	<0.050	0.050	02/11/2022	ND	2.07	103	2.00	4.16	
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	2.08	104	2.00	4.25	
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.40	107	6.00	4.40	
Total BTX	<0.300	0.300	02/11/2022	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	9600	16.0	02/10/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2022	ND	196	98.0	200	1.81	
DRO >C10-C28*	<10.0	10.0	02/11/2022	ND	194	96.8	200	8.34	
EXT DRO >C28-C36	<10.0	10.0	02/11/2022	ND					

Surrogate: 1-Chlorooctane 77.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.8 % 59.5-142

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

Received:	02/09/2022	Sampling Date:	02/08/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: V 2 @ 1' - R (H220496-12)

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	02/11/2022	ND	2.10	105	2.00	3.40	
Toluene*	<0.050	0.050	02/11/2022	ND	2.07	103	2.00	4.16	
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	2.08	104	2.00	4.25	
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.40	107	6.00	4.40	
Total BTX	<0.300	0.300	02/11/2022	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	8000	16.0	02/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2022	ND	196	98.0	200	1.81	
DRO >C10-C28*	<10.0	10.0	02/11/2022	ND	194	96.8	200	8.34	
EXT DRO >C28-C36	<10.0	10.0	02/11/2022	ND					

Surrogate: 1-Chlorooctane 73.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.6 % 59.5-142

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

Received:	02/09/2022	Sampling Date:	02/08/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: V 3 @ 0' (H220496-13)

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	02/11/2022	ND	2.10	105	2.00	3.40		
Toluene*	<0.050	0.050	02/11/2022	ND	2.07	103	2.00	4.16		
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	2.08	104	2.00	4.25		
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.40	107	6.00	4.40		
Total BTX	<0.300	0.300	02/11/2022	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	10800	16.0	02/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2022	ND	196	98.0	200	1.81	
DRO >C10-C28*	<10.0	10.0	02/11/2022	ND	194	96.8	200	8.34	
EXT DRO >C28-C36	<10.0	10.0	02/11/2022	ND					

Surrogate: 1-Chlorooctane 76.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.3 % 59.5-142

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

Received:	02/09/2022	Sampling Date:	02/08/2022
Reported:	02/14/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: V 3 @ 1' - R (H220496-14)

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	02/11/2022	ND	2.10	105	2.00	3.40		
Toluene*	<0.050	0.050	02/11/2022	ND	2.07	103	2.00	4.16		
Ethylbenzene*	<0.050	0.050	02/11/2022	ND	2.08	104	2.00	4.25		
Total Xylenes*	<0.150	0.150	02/11/2022	ND	6.40	107	6.00	4.40		
Total BTEx	<0.300	0.300	02/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	1800	16.0	02/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2022	ND	196	98.0	200	1.81	
DRO >C10-C28*	<10.0	10.0	02/11/2022	ND	194	96.8	200	8.34	
EXT DRO >C28-C36	<10.0	10.0	02/11/2022	ND					

Surrogate: 1-Chlorooctane 78.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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", is written over a horizontal line.

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 1 of 2

Page 17 of 18

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST														
Project Manager: Kathy Purvis				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>														
Address: 2617 W Marland				Company COG c/o Jacqui Harris																		
City: Hobbs State: NM Zip: 88240				Attn:																		
Phone #: (575) 264-9884 Fax #:				Address:																		
Project #: 15570 Project Owner: COG				City:																		
Project Name: Boo Radley Fed Com 701H, 702H & 703H				State: Zip:																		
Project Location: Rural Eddy County, NM				Phone #:																		
Sampler Name: Matthew Grieco				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								
4220496																						
1	NH @ 0'	G	1			X				X			2/8/22		X	X	X					
2	NH @ 1'	G	1			X				X			2/8/22		X	X	X					
3	EHC @ 0'	G	1			X				X			2/8/22		X	X	X					
4	EH @ 1'	G	1			X				X			2/8/22		X	X	X					
5	SHC @ 0'	G	1			X				X			2/8/22		X	X	X					
6	SH @ 1'	G	1			X				X			2/8/22		X	X	X					
7	WH @ 0'	G	1			X				X			2/8/22		X	X	X					
8	WH @ 1'	G	1			X				X			2/8/22		X	X	X					
9	V1 @ 0'	G	1			X				X			2/8/22		X	X	X					
10	V1 @ 1' - R	G	1			X				X			2/8/22		X	X	X					

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Relinquished By: <i>[Signature]</i>	Date: 2/8/22 Time: 3:00pm	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Date: 2-9-22 Time: 1:00	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) <i>-4.4°C</i> C-0.5°C			REMARKS: Please email results and copy of CoC to pm@etechenv.com.
Sampler - UPS - Bus - Other: <i>-4.9°C #113</i>			
Sample Condition Cool Intact		CHECKED BY: (Initials) <i>TO</i>	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

FORM-006
Revision 1.0

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

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

Page 18 of 18

[illegible]

FORM-006
Revision 1.0

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



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

April 28, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BOO RADLEY FED COM 701H, 702H & 703H

Enclosed are the results of analyses for samples received by the laboratory on 04/25/22 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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
 KATHY PURVIS
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	04/25/2022	Sampling Date:	04/22/2022
Reported:	04/28/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: V 2 @ 6' (H221688-01)

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	04/26/2022	ND	416	104	400	0.00	

Sample ID: V 3 @ 6' (H221688-02)

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	04/26/2022	ND	416	104	400	0.00	

Sample ID: SHH @ 0' (H221688-03)

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	04/26/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2022	ND	213	107	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/26/2022	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	04/26/2022	ND					

Surrogate: 1-Chlorooctane 82.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.9 % 59.5-142

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

Received:	04/25/2022	Sampling Date:	04/22/2022
Reported:	04/28/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SHH @ 1' (H221688-04)

Chloride, SM4500Cl-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	04/26/2022	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2022	ND	213	107	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/26/2022	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	04/26/2022	ND					
Surrogate: 1-Chlorooctane		74.0 %	66.9-136						
Surrogate: 1-Chlorooctadecane		67.6 %	59.5-142						

Sample ID: EHI @ 0' (H221688-05)

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	04/26/2022	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2022	ND	213	107	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/26/2022	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	04/26/2022	ND					
Surrogate: 1-Chlorooctane		77.9 %	66.9-136						
Surrogate: 1-Chlorooctadecane		71.3 %	59.5-142						

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

Received:	04/25/2022	Sampling Date:	04/22/2022
Reported:	04/28/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: EHI @ 1' (H221688-06)

Chloride, SM4500Cl-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	04/26/2022	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2022	ND	213	107	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/26/2022	ND	222	111	200	5.51	
EXT DRO >C28-C36	<10.0	10.0	04/26/2022	ND					
Surrogate: 1-Chlorooctane	82.8 %	66.9-136							
Surrogate: 1-Chlorooctadecane	74.9 %	59.5-142							

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Celey D. Keene, Lab Director/Quality Manager

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

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 1 of 1

Page 6 of 6

[illegible]



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

June 17, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BOO RADLEY FED COM 701H, 702H & 703H

Enclosed are the results of analyses for samples received by the laboratory on 06/14/22 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2022	Sampling Date:	06/14/2022
Reported:	06/17/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: EH 2 @ SURFACE (H222546-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2022	ND	2.19	109	2.00	7.80	
Toluene*	<0.050	0.050	06/15/2022	ND	2.17	108	2.00	7.64	
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.09	104	2.00	7.66	
Total Xylenes*	<0.150	0.150	06/15/2022	ND	6.46	108	6.00	7.65	
Total BTEX	<0.300	0.300	06/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	192	16.0	06/15/2022	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	06/15/2022	ND	168	84.0	200	3.89	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	167	83.4	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					

Surrogate: 1-Chlorooctane 73.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.8 % 59.5-142

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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
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2022	Sampling Date:	06/14/2022
Reported:	06/17/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: EH 2 @ 1' (H222546-02)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2022	ND	2.19	109	2.00	7.80	
Toluene*	<0.050	0.050	06/15/2022	ND	2.17	108	2.00	7.64	
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.09	104	2.00	7.66	
Total Xylenes*	<0.150	0.150	06/15/2022	ND	6.46	108	6.00	7.65	
Total BTX	<0.300	0.300	06/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	208	16.0	06/15/2022	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	06/15/2022	ND	168	84.0	200	3.89	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	167	83.4	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					

Surrogate: 1-Chlorooctane 83.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.9 % 59.5-142

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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
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2022	Sampling Date:	06/14/2022
Reported:	06/17/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SH 2 @ SURFACE (H222546-03)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/15/2022	ND	2.19	109	2.00	7.80		
Toluene*	<0.050	0.050	06/15/2022	ND	2.17	108	2.00	7.64		
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.09	104	2.00	7.66		
Total Xylenes*	<0.150	0.150	06/15/2022	ND	6.46	108	6.00	7.65		
Total BTX	<0.300	0.300	06/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	192	16.0	06/15/2022	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	06/15/2022	ND	168	84.0	200	3.89	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	167	83.4	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					

Surrogate: 1-Chlorooctane 84.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.8 % 59.5-142

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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
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/14/2022	Sampling Date:	06/14/2022
Reported:	06/17/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SH 2 @ 1' (H222546-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/15/2022	ND	2.19	109	2.00	7.80		
Toluene*	<0.050	0.050	06/15/2022	ND	2.17	108	2.00	7.64		
Ethylbenzene*	<0.050	0.050	06/15/2022	ND	2.09	104	2.00	7.66		
Total Xylenes*	<0.150	0.150	06/15/2022	ND	6.46	108	6.00	7.65		
Total BTEx	<0.300	0.300	06/15/2022	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	160	16.0	06/15/2022	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	06/15/2022	ND	168	84.0	200	3.89	
DRO >C10-C28*	<10.0	10.0	06/15/2022	ND	167	83.4	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	06/15/2022	ND					

Surrogate: 1-Chlorooctane 80.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager

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

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", is written over a horizontal line.

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 1 of 1

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Joellawry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: COG																							
City: Hobbs State: NM Zip: 88240				Attn:																							
Phone #: (575) 264-9884 Fax #:				Address:																							
Project #: 15570 Project Owner: COG				City:																							
Project Name: Boo Rodley Fed Com 701 H, 702 H, 703 H				State: Zip:																							
Project Location: Rural Eddy Co, NM				Phone #:																							
Sampler Name: Miguel Ramirez				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													
H222516	EH2 @ surface	G	1			X				Y			6/4/22		X	X	X										
1	EH2 @ 1'																										
3	SH2 @ surface																										
4	SH2 @ 1'																										
<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>																											
Relinquished By:		Date: 6-14-22		Received By:		Time: 1600		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS: Dropped off same day as collected													
Relinquished By:		Date:		Received By:		Time:		Add'l Fax #:																			
Delivered By: (Circle One)		4.72 C-0.52		Sample Condition		Cool Intact		CHECKED BY: (Initials)		Please email results and copy of CoC to pm@etechenv.com.																	
Sampler - UPS - Bus - Other:		4.22 #13		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No		TO																			

FORM-006
Revision 1.0

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



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

July 12, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BOO RADLEY FED COM 701H, 702H & 703H

Enclosed are the results of analyses for samples received by the laboratory on 07/11/22 12:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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.

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

Received:	07/11/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 1 @ 6' (H222960-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2022	ND	1.88	94.1	2.00	5.09	
Toluene*	<0.050	0.050	07/11/2022	ND	2.07	104	2.00	7.13	
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.17	108	2.00	5.12	
Total Xylenes*	<0.150	0.150	07/11/2022	ND	6.61	110	6.00	4.47	
Total BTX	<0.300	0.300	07/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	352	16.0	07/12/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 43-149

Surrogate: 1-Chlorooctadecane 92.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 2 @ 6' (H222960-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2022	ND	1.88	94.1	2.00	5.09		
Toluene*	<0.050	0.050	07/11/2022	ND	2.07	104	2.00	7.13		
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.17	108	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/11/2022	ND	6.61	110	6.00	4.47		
Total BTEx	<0.300	0.300	07/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 97.5 % 43-149

Surrogate: 1-Chlorooctadecane 100 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 3 @ 6' (H222960-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2022	ND	1.88	94.1	2.00	5.09		
Toluene*	<0.050	0.050	07/11/2022	ND	2.07	104	2.00	7.13		
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.17	108	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/11/2022	ND	6.61	110	6.00	4.47		
Total BTEx	<0.300	0.300	07/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	272	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 104 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 4 @ 6' (H222960-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2022	ND	1.88	94.1	2.00	5.09		
Toluene*	<0.050	0.050	07/11/2022	ND	2.07	104	2.00	7.13		
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.17	108	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/11/2022	ND	6.61	110	6.00	4.47		
Total BTEx	<0.300	0.300	07/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	288	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 100 % 43-149

Surrogate: 1-Chlorooctadecane 97.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 5 @ 6' (H222960-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2022	ND	1.88	94.1	2.00	5.09		
Toluene*	<0.050	0.050	07/11/2022	ND	2.07	104	2.00	7.13		
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.17	108	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/11/2022	ND	6.61	110	6.00	4.47		
Total BTEX	<0.300	0.300	07/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	304	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 43-149

Surrogate: 1-Chlorooctadecane 85.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 11 @ 5.5' (H222960-06)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2022	ND	1.88	94.1	2.00	5.09		
Toluene*	<0.050	0.050	07/11/2022	ND	2.07	104	2.00	7.13		
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.17	108	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/11/2022	ND	6.61	110	6.00	4.47		
Total BTX	<0.300	0.300	07/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	192	16.0	07/12/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 106 % 43-149

Surrogate: 1-Chlorooctadecane 104 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 12 @ 5.5' (H222960-07)

BTX 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2022	ND	1.88	94.1	2.00	5.09		
Toluene*	<0.050	0.050	07/11/2022	ND	2.07	104	2.00	7.13		
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.17	108	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/11/2022	ND	6.61	110	6.00	4.47		
Total BTX	<0.300	0.300	07/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	288	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98		
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61		
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND						

Surrogate: 1-Chlorooctane 98.8 % 43-149

Surrogate: 1-Chlorooctadecane 96.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 13 @ 5.5' (H222960-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2022	ND	1.88	94.1	2.00	5.09		
Toluene*	<0.050	0.050	07/11/2022	ND	2.07	104	2.00	7.13		
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.17	108	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/11/2022	ND	6.61	110	6.00	4.47		
Total BTEX	<0.300	0.300	07/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 102 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 14 @ 5.5' (H222960-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2022	ND	1.88	94.1	2.00	5.09		
Toluene*	<0.050	0.050	07/11/2022	ND	2.07	104	2.00	7.13		
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.17	108	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/11/2022	ND	6.61	110	6.00	4.47		
Total BTEX	<0.300	0.300	07/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	96.0	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 43-149

Surrogate: 1-Chlorooctadecane 93.3 % 42.5-161

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

Received:	07/11/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 15 @ 5.5' (H222960-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2022	ND	1.88	94.1	2.00	5.09		
Toluene*	<0.050	0.050	07/11/2022	ND	2.07	104	2.00	7.13		
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.17	108	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/11/2022	ND	6.61	110	6.00	4.47		
Total BTEX	<0.300	0.300	07/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	176	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98		
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61		
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND						

Surrogate: 1-Chlorooctane 88.9 % 43-149

Surrogate: 1-Chlorooctadecane 86.5 % 42.5-161

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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 21 @ 5.5' (H222960-11)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2022	ND	1.88	94.1	2.00	5.09		
Toluene*	<0.050	0.050	07/11/2022	ND	2.07	104	2.00	7.13		
Ethylbenzene*	<0.050	0.050	07/11/2022	ND	2.17	108	2.00	5.12		
Total Xylenes*	<0.150	0.150	07/11/2022	ND	6.61	110	6.00	4.47		
Total BTX	<0.300	0.300	07/11/2022	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	240	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 98.5 % 43-149

Surrogate: 1-Chlorooctadecane 95.3 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 22 @ 5.5' (H222960-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.85	92.7	2.00	4.37		
Toluene*	<0.050	0.050	07/12/2022	ND	2.01	101	2.00	3.93		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.10	105	2.00	4.26		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.39	106	6.00	4.25		
Total BTEx	<0.300	0.300	07/12/2022	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	144	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 96.8 % 43-149

Surrogate: 1-Chlorooctadecane 94.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 23 @ 5.5' (H222960-13)

BTX 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.85	92.7	2.00	4.37		
Toluene*	<0.050	0.050	07/12/2022	ND	2.01	101	2.00	3.93		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.10	105	2.00	4.26		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.39	106	6.00	4.25		
Total BTX	<0.300	0.300	07/12/2022	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	112	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98		
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61		
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND						

Surrogate: 1-Chlorooctane 105 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 24 @ 5.5' (H222960-14)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.85	92.7	2.00	4.37		
Toluene*	<0.050	0.050	07/12/2022	ND	2.01	101	2.00	3.93		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.10	105	2.00	4.26		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.39	106	6.00	4.25		
Total BTX	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 100 % 43-149

Surrogate: 1-Chlorooctadecane 98.0 % 42.5-161

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 25 @ 5.5' (H222960-15)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.85	92.7	2.00	4.37		
Toluene*	<0.050	0.050	07/12/2022	ND	2.01	101	2.00	3.93		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.10	105	2.00	4.26		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.39	106	6.00	4.25		
Total BTX	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 101 % 43-149

Surrogate: 1-Chlorooctadecane 98.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 31 @ 5.5' (H222960-16)

BTX 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.85	92.7	2.00	4.37		
Toluene*	<0.050	0.050	07/12/2022	ND	2.01	101	2.00	3.93		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.10	105	2.00	4.26		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.39	106	6.00	4.25		
Total BTX	<0.300	0.300	07/12/2022	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	128	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98		
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61		
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND						

Surrogate: 1-Chlorooctane 99.3 % 43-149

Surrogate: 1-Chlorooctadecane 97.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 32 @ 5.5' (H222960-17)

BTX 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.85	92.7	2.00	4.37		
Toluene*	<0.050	0.050	07/12/2022	ND	2.01	101	2.00	3.93		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.10	105	2.00	4.26		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.39	106	6.00	4.25		
Total BTX	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	128	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98		
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61		
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND						

Surrogate: 1-Chlorooctane 100 % 43-149

Surrogate: 1-Chlorooctadecane 99.3 % 42.5-161

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 33 @ 5.5' (H222960-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.85	92.7	2.00	4.37		
Toluene*	<0.050	0.050	07/12/2022	ND	2.01	101	2.00	3.93		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.10	105	2.00	4.26		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.39	106	6.00	4.25		
Total BTEX	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	64.0	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 94.1 % 43-149

Surrogate: 1-Chlorooctadecane 88.5 % 42.5-161

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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 34 @ 5.5' (H222960-19)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.85	92.7	2.00	4.37		
Toluene*	<0.050	0.050	07/12/2022	ND	2.01	101	2.00	3.93		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.10	105	2.00	4.26		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.39	106	6.00	4.25		
Total BTX	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 90.8 % 43-149

Surrogate: 1-Chlorooctadecane 84.7 % 42.5-161

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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 35 @ 5.5' (H222960-20)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.85	92.7	2.00	4.37		
Toluene*	<0.050	0.050	07/12/2022	ND	2.01	101	2.00	3.93		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.10	105	2.00	4.26		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.39	106	6.00	4.25		
Total BTX	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	210	105	200	3.98	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	220	110	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 89.9 % 43-149

Surrogate: 1-Chlorooctadecane 83.4 % 42.5-161

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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 41 @ 5.5' (H222960-21)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.85	92.7	2.00	4.37		
Toluene*	<0.050	0.050	07/12/2022	ND	2.01	101	2.00	3.93		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.10	105	2.00	4.26		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.39	106	6.00	4.25		
Total BTEX	<0.300	0.300	07/12/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	213	107	200	0.591	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	212	106	200	0.443	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 75.2 % 43-149

Surrogate: 1-Chlorooctadecane 88.4 % 42.5-161

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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 42 @ 5.5' (H222960-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.89	94.3	2.00	5.99		
Toluene*	<0.050	0.050	07/12/2022	ND	2.07	103	2.00	6.19		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.18	109	2.00	6.73		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.64	111	6.00	6.50		
Total BTEx	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	213	107	200	0.591	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	212	106	200	0.443	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 81.7 % 43-149

Surrogate: 1-Chlorooctadecane 95.6 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 43 @ 5.5' (H222960-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.89	94.3	2.00	5.99		
Toluene*	<0.050	0.050	07/12/2022	ND	2.07	103	2.00	6.19		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.18	109	2.00	6.73		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.64	111	6.00	6.50		
Total BTEx	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	213	107	200	0.591	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	212	106	200	0.443	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 73.9 % 43-149

Surrogate: 1-Chlorooctadecane 86.0 % 42.5-161

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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 44 @ 5.5' (H222960-24)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2022	ND	1.89	94.3	2.00	5.99	
Toluene*	<0.050	0.050	07/12/2022	ND	2.07	103	2.00	6.19	
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.18	109	2.00	6.73	
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.64	111	6.00	6.50	
Total BTEx	<0.300	0.300	07/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	80.0	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	213	107	200	0.591	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	212	106	200	0.443	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 77.3 % 43-149

Surrogate: 1-Chlorooctadecane 88.5 % 42.5-161

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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 45 @ 5.5' (H222960-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.89	94.3	2.00	5.99		
Toluene*	<0.050	0.050	07/12/2022	ND	2.07	103	2.00	6.19		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.18	109	2.00	6.73		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.64	111	6.00	6.50		
Total BTEx	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	07/12/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	213	107	200	0.591	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	212	106	200	0.443	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 76.1 % 43-149

Surrogate: 1-Chlorooctadecane 90.0 % 42.5-161

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Analytical Results For:

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 51 @ 5.5' (H222960-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.89	94.3	2.00	5.99		
Toluene*	<0.050	0.050	07/12/2022	ND	2.07	103	2.00	6.19		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.18	109	2.00	6.73		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.64	111	6.00	6.50		
Total BTEx	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	07/12/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	213	107	200	0.591	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	212	106	200	0.443	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 72.9 % 43-149

Surrogate: 1-Chlorooctadecane 86.6 % 42.5-161

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 52 @ 5.5' (H222960-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.89	94.3	2.00	5.99		
Toluene*	<0.050	0.050	07/12/2022	ND	2.07	103	2.00	6.19		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.18	109	2.00	6.73		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.64	111	6.00	6.50		
Total BTEx	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	213	107	200	0.591	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	212	106	200	0.443	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 82.8 % 43-149

Surrogate: 1-Chlorooctadecane 105 % 42.5-161

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 53 @ 5.5' (H222960-28)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2022	ND	1.89	94.3	2.00	5.99	
Toluene*	<0.050	0.050	07/12/2022	ND	2.07	103	2.00	6.19	
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.18	109	2.00	6.73	
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.64	111	6.00	6.50	
Total BTEx	<0.300	0.300	07/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	07/12/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	213	107	200	0.591	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	212	106	200	0.443	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 79.9 % 43-149

Surrogate: 1-Chlorooctadecane 99.5 % 42.5-161

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 54 @ 5.5' (H222960-29)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2022	ND	1.89	94.3	2.00	5.99	
Toluene*	<0.050	0.050	07/12/2022	ND	2.07	103	2.00	6.19	
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.18	109	2.00	6.73	
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.64	111	6.00	6.50	
Total BTEx	<0.300	0.300	07/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/12/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	213	107	200	0.591	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	212	106	200	0.443	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 74.6 % 43-149

Surrogate: 1-Chlorooctadecane 92.3 % 42.5-161

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 55 @ 5.5' (H222960-30)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.89	94.3	2.00	5.99		
Toluene*	<0.050	0.050	07/12/2022	ND	2.07	103	2.00	6.19		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.18	109	2.00	6.73		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.64	111	6.00	6.50		
Total BTEx	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/12/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	213	107	200	0.591	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	212	106	200	0.443	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 83.2 % 43-149

Surrogate: 1-Chlorooctadecane 98.8 % 42.5-161

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

Received:	07/11/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: EW 1 (H222960-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.89	94.3	2.00	5.99		
Toluene*	<0.050	0.050	07/12/2022	ND	2.07	103	2.00	6.19		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.18	109	2.00	6.73		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.64	111	6.00	6.50		
Total BTEx	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	272	16.0	07/12/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	213	107	200	0.591	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	212	106	200	0.443	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 81.0 % 43-149

Surrogate: 1-Chlorooctadecane 96.5 % 42.5-161

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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 cursive script, 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

1 of 1
Page 34 of 37

Company Name: Etch Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																					
Project Manager: <u>K. Purvis</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																																					
Address: 2617 W Marland				Company: <u>COG</u>																																									
City: Hobbs State: NM Zip: 88240				Attn: <u>Jacqui Harris</u>																																									
Phone #: (575) 264-9884 Fax #:				Address:																																									
Project #: <u>15570</u> Project Owner: <u>COG</u>				City:																																									
Project Name: <u>Boo Radley Fed Com</u>				State: Zip:																																									
Project Location: <u>Rural Eddy County, NM</u>				Phone #:																																									
Sampler Name: <u>Dominic Casarez</u>				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															
<u>H222960</u>																																													
1		<u>FL1 e6'</u>																																											
2		<u>FL2 e6'</u>																																											
3		<u>FL3 e6'</u>																																											
4		<u>FL4 e6'</u>																																											
5		<u>FL5 e6'</u>																																											
6		<u>FL11 e5.5'</u>																																											
7		<u>FL12 e5.5'</u>																																											
8		<u>FL13 e5.5'</u>																																											
9		<u>FL14 e5.5'</u>																																											
10		<u>FL15 e5.5'</u>																																											
<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 profit 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>7/8/22</u>		Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																															
Relinquished By: <u>[Signature]</u>				Date: <u>7-11-22</u>		Received By: <u>[Signature]</u>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																															
Delivered By: (Circle One) <u>1.8° C-0.5°</u>				Time: <u>5:00pm</u>		Sample Condition				CHECKED BY: (Initials) <u>VO</u>				REMARKS: <u>Rush!</u>																															
Sampler - UPS - Bus - Other: <u>1.3° #113</u>				Time: <u>1:20</u>		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Please email results and copy of CoC to pm@etechenv.com.																															

FORM-006
Revision 1.0

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



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101 East Marland, Hobbs, NM 88240

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2012
Page 35 of 37

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: K. Purvis				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: COG																							
City: Hobbs		State: NM		Zip: 88240		Attn: Jacqui Harris																					
Phone #: (575) 264-9884		Fax #:		Address:		City:																					
Project #: 15570		Project Owner: COG		State:		Zip:																					
Project Name: Boo Radley Fed Com				Phone #:																							
Project Location: Rural Eddy County, NM				Fax #:																							
Sampler Name: Dominic Casarez																											
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													
H222960																											
11	FL 21 @ 5.5'	C	1			✓					✓		7/18/12		X	X	X										
12	FL 22 @ 5.5'																										
13	FL 23 @ 5.5'																										
14	FL 24 @ 5.5'																										
15	FL 25 @ 5.5'																										
16	FL 31 @ 5.5'																										
17	FL 32 @ 5.5'																										
18	FL 33 @ 5.5'																										
19	FL 34 @ 5.5'																										
20	FL 35 @ 5.5'																										
<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: [Signature]				Date: 7/10/12				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:											
Time: 5:00pm				Date: 7-11-12				Time: 1:20				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:											
Relinquished By: [Signature]				Date: 7-11-12				Received By: [Signature]				REMARKS: Rush!															
Delivered By: (Circle One)				Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.															
Sampler - UPS - Bus - Other:				Cool Intact				(Initials)																			
1.8c C-0.5c				Yes Yes				J.O.																			
T.3c #113				No No																							

FORM-006
Revision 1.0

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**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

30a

Page 36 of 37

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																											
Project Manager: K. Purvis				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																											
Address: 2617 W Marland				Company: COG																															
City: Hobbs State: NM Zip: 88240				Attn: Jacqui Harris																															
Phone #: (575) 264-9884 Fax #:				Address:																															
Project #: 15570 Project Owner: COG				City:																															
Project Name: Boo Radley Fed Cpm				State: Zip:																															
Project Location: Rural Eddy County, NM				Phone #:																															
Sampler Name: Dominic Casarez				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							
H222960																																			
21		FL 41 @ 5.5'		C		1						✓								✓						7/18/22				X		X		X	
22		FL 42 @ 5.5'																																	
23		FL 43 @ 5.5'																																	
24		FL 44 @ 5.5'																																	
25		FL 45 @ 5.5'																																	
26		FL 51 @ 5.5'																																	
27		FL 52 @ 5.5'																																	
28		FL 53 @ 5.5'																																	
29		FL 54 @ 5.5'																																	
30		FL 55 @ 5.5'																																	
<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: [Signature]				Date: 7/18/22				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																			
				Time: 5:00pm								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																			
Relinquished By:				Date: 7-11-22				Received By: [Signature]				REMARKS:																							
				Time: 7:20								Rush!																							
Delivered By: (Circle One)				1.8° C-0.52				Sample Condition				CHECKED BY:																							
Sampler - UPS - Bus - Other:				1.3° #113				Cool Intact				(Initials)																							
								<input type="checkbox"/> Yes <input type="checkbox"/> No				[Signature]																							
								<input type="checkbox"/> Yes <input type="checkbox"/> No																											

FORM-006
Revision 1.0

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

July 13, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BOO RADLEY FED COM 701H, 702H & 703H

Enclosed are the results of analyses for samples received by the laboratory on 07/12/22 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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.

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
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 61 @ 5.5' (H222985-01)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66	
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77	
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55	
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57	
Total BTX	<0.300	0.300	07/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	16.0	16.0	07/12/2022	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 72.4 % 43-149

Surrogate: 1-Chlorooctadecane 78.3 % 42.5-161

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
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 62 @ 5.5' (H222985-02)

BTX 8021B		mg/ kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66		
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57		
Total BTX	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	16.0	16.0	07/12/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 76.6 % 43-149

Surrogate: 1-Chlorooctadecane 83.4 % 42.5-161

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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
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 63 @ 5.5' (H222985-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66		
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57		
Total BTEx	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 77.7 % 43-149

Surrogate: 1-Chlorooctadecane 83.9 % 42.5-161

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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
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 64 @ 5.5' (H222985-04)

BTX 8021B		mg/ kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66		
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57		
Total BTX	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	32.0	16.0	07/12/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 77.5 % 43-149

Surrogate: 1-Chlorooctadecane 83.2 % 42.5-161

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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
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 65 @ 5.5' (H222985-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66		
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57		
Total BTX	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/12/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 81.4 % 43-149

Surrogate: 1-Chlorooctadecane 88.8 % 42.5-161

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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
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 71 @ 5.5' (H222985-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66		
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57		
Total BTEx	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 79.7 % 43-149

Surrogate: 1-Chlorooctadecane 84.9 % 42.5-161

Cardinal Laboratories

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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
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 72 @ 5.5' (H222985-07)

BTX 8021B		mg/ kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66		
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57		
Total BTX	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	64.0	16.0	07/12/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 68.0 % 43-149

Surrogate: 1-Chlorooctadecane 73.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 73 @ 5.5' (H222985-08)

BTX 8021B		mg/ kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66		
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57		
Total BTX	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	96.0	16.0	07/12/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 68.0 % 43-149

Surrogate: 1-Chlorooctadecane 72.6 % 42.5-161

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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 74 @ 5.5' (H222985-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66	QR-03	
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77	QR-03	
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55	QR-03	
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57	QR-03	
Total BTX	<0.300	0.300	07/12/2022	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	112	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 67.8 % 43-149

Surrogate: 1-Chlorooctadecane 72.6 % 42.5-161

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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 75 @ 5.5' (H222985-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66		
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57		
Total BTEx	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 70.9 % 43-149

Surrogate: 1-Chlorooctadecane 77.3 % 42.5-161

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Analytical Results For:

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 JOEL LOWRY
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 HOBBS NM, 88240
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 81 @ 5.5' (H222985-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66		
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57		
Total BTEx	<0.300	0.300	07/12/2022	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	48.0	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 69.5 % 43-149

Surrogate: 1-Chlorooctadecane 74.7 % 42.5-161

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Analytical Results For:

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 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 82 @ 5.5' (H222985-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66		
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57		
Total BTEx	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	07/12/2022	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	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 75.1 % 43-149

Surrogate: 1-Chlorooctadecane 81.6 % 42.5-161

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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 83 @ 5.5' (H222985-13)

BTX 8021B		mg/ kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66		
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57		
Total BTX	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	07/12/2022	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	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 72.6 % 43-149

Surrogate: 1-Chlorooctadecane 78.9 % 42.5-161

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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 84 @ 5.5' (H222985-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66		
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57		
Total BTEx	<0.300	0.300	07/12/2022	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	32.0	16.0	07/12/2022	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	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 61.6 % 43-149

Surrogate: 1-Chlorooctadecane 66.4 % 42.5-161

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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 85 @ 5.5' (H222985-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66	
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77	
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55	
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57	
Total BTEx	<0.300	0.300	07/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/12/2022	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	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 65.0 % 43-149

Surrogate: 1-Chlorooctadecane 74.6 % 42.5-161

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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 91 @ 5.5' (H222985-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66		
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57		
Total BTEx	<0.300	0.300	07/12/2022	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	48.0	16.0	07/12/2022	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	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 74.4 % 43-149

Surrogate: 1-Chlorooctadecane 83.2 % 42.5-161

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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
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 92 @ 5.5' (H222985-17)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66	
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77	
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55	
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57	
Total BTX	<0.300	0.300	07/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/12/2022	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	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 77.8 % 43-149

Surrogate: 1-Chlorooctadecane 87.2 % 42.5-161

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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 93 @ 5.5' (H222985-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66		
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57		
Total BTEx	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	07/12/2022	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	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 73.2 % 43-149

Surrogate: 1-Chlorooctadecane 81.9 % 42.5-161

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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 94 @ 5.5' (H222985-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66		
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57		
Total BTEx	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	07/12/2022	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	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 64.9 % 43-149

Surrogate: 1-Chlorooctadecane 71.9 % 42.5-161

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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 95 @ 5.5' (H222985-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.95	97.6	2.00	2.66		
Toluene*	<0.050	0.050	07/12/2022	ND	2.15	108	2.00	2.77		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.26	113	2.00	2.55		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.95	116	6.00	3.57		
Total BTEx	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/12/2022	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	07/12/2022	ND	184	91.9	200	10.4	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	177	88.6	200	15.7	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 69.3 % 43-149

Surrogate: 1-Chlorooctadecane 77.4 % 42.5-161

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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: NW 1 (H222985-21)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.87	93.5	2.00	3.69		
Toluene*	<0.050	0.050	07/12/2022	ND	2.04	102	2.00	3.65		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.15	107	2.00	2.93		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.56	109	6.00	2.72		
Total BTX	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	112	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	197	98.4	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	175	87.6	200	16.0	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 99.7 % 43-149

Surrogate: 1-Chlorooctadecane 104 % 42.5-161

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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: NW 2 (H222985-22)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.87	93.5	2.00	3.69		
Toluene*	<0.050	0.050	07/12/2022	ND	2.04	102	2.00	3.65		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.15	107	2.00	2.93		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.56	109	6.00	2.72		
Total BTEx	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	32.0	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	197	98.4	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	175	87.6	200	16.0	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 43-149

Surrogate: 1-Chlorooctadecane 92.7 % 42.5-161

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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: NW 3 (H222985-23)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.87	93.5	2.00	3.69		
Toluene*	<0.050	0.050	07/12/2022	ND	2.04	102	2.00	3.65		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.15	107	2.00	2.93		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.56	109	6.00	2.72		
Total BTEx	<0.300	0.300	07/12/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	197	98.4	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	175	87.6	200	16.0	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 43-149

Surrogate: 1-Chlorooctadecane 98.3 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/13/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: NW 4 (H222985-24)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2022	ND	1.87	93.5	2.00	3.69		
Toluene*	<0.050	0.050	07/12/2022	ND	2.04	102	2.00	3.65		
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.15	107	2.00	2.93		
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.56	109	6.00	2.72		
Total BTEx	<0.300	0.300	07/12/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	07/12/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	197	98.4	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	175	87.6	200	16.0	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 93.5 % 43-149

Surrogate: 1-Chlorooctadecane 98.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

10f

Page 27 of 29

Company Name: Etech Environmental & Safety Solutions, Inc.						BILL TO								ANALYSIS REQUEST								
Project Manager: K. Purvis						P.O.#:																
Address: 2617 W Marland						Company: COG																
City: Hobbs		State: NM		Zip: 88240		Attn: Jacqui Harris																
Phone #: (575) 264-9884		Fax #:		Address:																		
Project #: 15570		Project Owner: COG				City:																
Project Name: Boo Radley Fed Cpm						State:						Zip:										
Project Location: Rural Eddy County, NH						Phone #:																
Sampler Name: Dominic Casarez						Fax #:																
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G/RAB OR (C)/OMP. # CONTAINERS)	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	PRESERV. ACID/BASE: ICE / COOL OTHER :	SAMPLING DATE TIME	Chloride	TPH (8015M)	BTEX (8021B)										
H222985			C-1							7/11/22	X	X	X									
1	FL61 @ 5.5'																					
2	FL62 @ 5.5'																					
3	FL63 @ 5.5'																					
4	FL64 @ 5.5'																					
5	FL65 @ 5.5'																					
6	FL71 @ 5.5'																					
7	FL72 @ 5.5'																					
8	FL73 @ 5.5'																					
9	FL74 @ 5.5'																					
10	FL75 @ 5.5'																					
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Relinquished By:		Date: 7/11/22 Time: 5:00 pm	Received By:		[Signature]		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:													
Relinquished By:		Date: 7-12-22 Time: 11:00	Received By:		[Signature]		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:													
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		-5.9 C-0.6c -6.5c #113	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) Y.G.		Rush! Please email results and copy of CoC to pm@etechenv.com.															



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: K. Purvis				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: COG																							
City: Hobbs State: NM Zip: 88240				Attn: Jacquie Harris																							
Phone #: (575) 264-9884 Fax #:				Address:																							
Project #: 15570 Project Owner: COG				City:																							
Project Name: Boo Radley Fed Com				State: Zip:																							
Project Location: Rural Eddy County, NM				Phone #:																							
Sampler Name: Dominic Casarez				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													
H722985																											
11	FL81@5.5'	C	1			✓				✓			7/11/22		X	X	X										
12	FL82@5.5'	C	1			✓				✓					X	X	X										
13	FL83@5.5'					✓				✓																	
14	FL84@5.5'					✓				✓																	
15	FL85@5.5'					✓				✓																	
16	FL91@5.5'					✓				✓																	
17	FL92@5.5'					✓				✓																	
18	FL93@5.5'					✓				✓																	
19	FL94@5.5'					✓				✓																	
20	FL95@5.5'					✓				✓																	
<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>																											
Relinquished By:		Date: 7/11/22 Time: 5:00pm		Received By:		Date: 7-12-22 Time: 1:00		Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials) Y.O.		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: Rush! Please email results and copy of CoC to pm@etechenv.com.		Add'l Phone #: Add'l Fax #:													
Relinquished By:		Date: 7-12-22 Time: 1:00		Received By:		Date: 7-12-22 Time: 1:00		Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials) Y.O.		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: Rush! Please email results and copy of CoC to pm@etechenv.com.		Add'l Phone #: Add'l Fax #:													
Delivered By: (Circle One) -5.9°C C-0.6°C		Sampler - UPS - Bus - Other: -6.5°C #3																									

FORM-006
Revision 1.0

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

304

Page 29 of 29

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: K. Purvis				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: COG																							
City: Hobbs State: NM Zip: 88240				Attn: Jacquie Harris																							
Phone #: (575) 264-9884 Fax #:				Address:																							
Project #: 15570 Project Owner: COG				City:																							
Project Name: Boo Radley Fed Corn				State: Zip:																							
Project Location: Rural Eddy County, NM				Phone #:																							
Sampler Name: Dominic Casarez				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													
H222985																											
21	NW 1	C	1										7/11/22		X	X	X										
22	NW 2																										
23	NW 3																										
24	NW 4																										
KHO 7/12/22																											
<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: [Signature]				Date: 7/11/22		Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
Relinquished By: [Signature]				Date: 7-12-22		Received By: [Signature]				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Delivered By: (Circle One) -5.9°C -0.6°C				Time: 1100		Sample Condition				CHECKED BY: (Initials)				<p>Rush!</p> <p>Please email results and copy of CoC to pm@etechenv.com.</p>													
Sampler - UPS - Bus - Other: -6.5°C #113				Time: 1100		Cool Intact				80,																	

FORM-006
Revision 1.0

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

July 15, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BOO RADLEY FED COM 701H, 702H & 703H

Enclosed are the results of analyses for samples received by the laboratory on 07/14/22 8:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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.

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



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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 6 @ 5.5' (H223043-01)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 79.5 % 43-149

Surrogate: 1-Chlorooctadecane 85.6 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 7 @ 5.5' (H223043-02)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTX	<0.300	0.300	07/14/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 76.1 % 43-149

Surrogate: 1-Chlorooctadecane 83.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 8 @ 5.5' (H223043-03)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	32.0	16.0	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 79.2 % 43-149

Surrogate: 1-Chlorooctadecane 86.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 9 @ 5.5' (H223043-04)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	48.0	16.0	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 74.9 % 43-149

Surrogate: 1-Chlorooctadecane 82.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 10 @ 5.5' (H223043-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTEX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	96.0	16.0	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 72.8 % 43-149

Surrogate: 1-Chlorooctadecane 80.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 16 @ 5.5' (H223043-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 75.6 % 43-149

Surrogate: 1-Chlorooctadecane 86.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 17 @ 5.5' (H223043-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	48.0	16.0	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 73.3 % 43-149

Surrogate: 1-Chlorooctadecane 83.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 18 @ 5.5' (H223043-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 71.1 % 43-149

Surrogate: 1-Chlorooctadecane 80.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 19 @ 5.5' (H223043-09)

BTX 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	48.0	16.0	07/14/2022	ND	432	108	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	188	94.0	200	6.27		
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68		
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND						

Surrogate: 1-Chlorooctane 72.2 % 43-149

Surrogate: 1-Chlorooctadecane 83.3 % 42.5-161

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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 20 @ 5.5' (H223043-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	32.0	16.0	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 78.1 % 43-149

Surrogate: 1-Chlorooctadecane 87.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 26 @ 5.5' (H223043-11)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	160	16.0	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 72.6 % 43-149

Surrogate: 1-Chlorooctadecane 80.6 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 27 @ 5.5' (H223043-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	07/14/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 73.9 % 43-149

Surrogate: 1-Chlorooctadecane 81.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 28 @ 5.5' (H223043-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	192	16.0	07/14/2022	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	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 76.8 % 43-149

Surrogate: 1-Chlorooctadecane 84.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 29 @ 5.5' (H223043-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	192	16.0	07/14/2022	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	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 78.1 % 43-149

Surrogate: 1-Chlorooctadecane 85.9 % 42.5-161

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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 30 @ 5.5' (H223043-15)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	192	16.0	07/14/2022	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	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 76.1 % 43-149

Surrogate: 1-Chlorooctadecane 84.2 % 42.5-161

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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 36 @ 5.5' (H223043-16)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	07/14/2022	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	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 79.2 % 43-149

Surrogate: 1-Chlorooctadecane 87.7 % 42.5-161

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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 37 @ 5.5' (H223043-17)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	07/14/2022	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	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 77.0 % 43-149

Surrogate: 1-Chlorooctadecane 86.6 % 42.5-161

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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 38 @ 5.5' (H223043-18)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTEx	<0.300	0.300	07/14/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/14/2022	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	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 70.2 % 43-149

Surrogate: 1-Chlorooctadecane 78.3 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 39 @ 5.5' (H223043-19)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTEx	<0.300	0.300	07/14/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/14/2022	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	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 71.6 % 43-149

Surrogate: 1-Chlorooctadecane 79.6 % 42.5-161

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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 40 @ 5.5' (H223043-20)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	1.86	92.9	2.00	3.79		
Toluene*	<0.050	0.050	07/14/2022	ND	1.93	96.4	2.00	4.98		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	1.95	97.6	2.00	4.43		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	5.97	99.6	6.00	4.53		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	80.0	16.0	07/14/2022	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	07/14/2022	ND	188	94.0	200	6.27	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	198	98.8	200	4.68	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 71.0 % 43-149

Surrogate: 1-Chlorooctadecane 79.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 46 @ 5.5' (H223043-21)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	5.17	
Toluene*	<0.050	0.050	07/14/2022	ND	2.15	108	2.00	4.61	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.19	110	2.00	5.24	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.70	112	6.00	5.76	
Total BTEx	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	07/14/2022	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	07/14/2022	ND	194	96.8	200	5.88	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	187	93.7	200	0.353	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 81.5 % 43-149

Surrogate: 1-Chlorooctadecane 86.7 % 42.5-161

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 47 @ 5.5' (H223043-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	5.17		
Toluene*	<0.050	0.050	07/14/2022	ND	2.15	108	2.00	4.61		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.19	110	2.00	5.24		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.70	112	6.00	5.76		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	07/14/2022	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	07/14/2022	ND	194	96.8	200	5.88	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	187	93.7	200	0.353	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 87.7 % 43-149

Surrogate: 1-Chlorooctadecane 93.1 % 42.5-161

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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 48 @ 5.5' (H223043-23)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	5.17	
Toluene*	<0.050	0.050	07/14/2022	ND	2.15	108	2.00	4.61	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.19	110	2.00	5.24	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.70	112	6.00	5.76	
Total BTEx	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	07/14/2022	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	07/14/2022	ND	194	96.8	200	5.88	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	187	93.7	200	0.353	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 86.3 % 43-149

Surrogate: 1-Chlorooctadecane 91.3 % 42.5-161

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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 49 @ 5.5' (H223043-24)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	5.17		
Toluene*	<0.050	0.050	07/14/2022	ND	2.15	108	2.00	4.61		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.19	110	2.00	5.24		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.70	112	6.00	5.76		
Total BTX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	80.0	16.0	07/14/2022	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	07/14/2022	ND	194	96.8	200	5.88	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	187	93.7	200	0.353	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 81.1 % 43-149

Surrogate: 1-Chlorooctadecane 85.4 % 42.5-161

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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 50 @ 5.5' (H223043-25)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	5.17		
Toluene*	<0.050	0.050	07/14/2022	ND	2.15	108	2.00	4.61		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.19	110	2.00	5.24		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.70	112	6.00	5.76		
Total BTX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	80.0	16.0	07/14/2022	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	07/14/2022	ND	194	96.8	200	5.88	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	187	93.7	200	0.353	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 43-149

Surrogate: 1-Chlorooctadecane 92.1 % 42.5-161

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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 56 @ 5.5' (H223043-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	5.17		
Toluene*	<0.050	0.050	07/14/2022	ND	2.15	108	2.00	4.61		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.19	110	2.00	5.24		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.70	112	6.00	5.76		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/14/2022	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	07/14/2022	ND	194	96.8	200	5.88	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	187	93.7	200	0.353	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 73.9 % 43-149

Surrogate: 1-Chlorooctadecane 78.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 57 @ 5.5' (H223043-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	5.17		
Toluene*	<0.050	0.050	07/14/2022	ND	2.15	108	2.00	4.61		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.19	110	2.00	5.24		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.70	112	6.00	5.76		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/14/2022	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	07/14/2022	ND	194	96.8	200	5.88	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	187	93.7	200	0.353	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 72.7 % 43-149

Surrogate: 1-Chlorooctadecane 75.1 % 42.5-161

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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 58 @ 5.5' (H223043-28)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	5.17	
Toluene*	<0.050	0.050	07/14/2022	ND	2.15	108	2.00	4.61	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.19	110	2.00	5.24	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.70	112	6.00	5.76	
Total BTEx	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	07/14/2022	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	07/14/2022	ND	194	96.8	200	5.88	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	187	93.7	200	0.353	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 75.8 % 43-149

Surrogate: 1-Chlorooctadecane 80.7 % 42.5-161

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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 59 @ 5.5' (H223043-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	5.17		
Toluene*	<0.050	0.050	07/14/2022	ND	2.15	108	2.00	4.61		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.19	110	2.00	5.24		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.70	112	6.00	5.76		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	07/14/2022	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	07/14/2022	ND	194	96.8	200	5.88	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	187	93.7	200	0.353	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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Analytical Results For:

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: FL 60 @ 5.5' (H223043-30)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	5.17		
Toluene*	<0.050	0.050	07/14/2022	ND	2.15	108	2.00	4.61		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.19	110	2.00	5.24		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.70	112	6.00	5.76		
Total BTX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/14/2022	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	07/14/2022	ND	194	96.8	200	5.88	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	187	93.7	200	0.353	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 88.6 % 43-149

Surrogate: 1-Chlorooctadecane 93.8 % 42.5-161

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: WW 1 (H223043-31)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	5.17	
Toluene*	<0.050	0.050	07/14/2022	ND	2.15	108	2.00	4.61	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.19	110	2.00	5.24	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.70	112	6.00	5.76	
Total BTEx	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	176	16.0	07/14/2022	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	07/14/2022	ND	194	96.8	200	5.88	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	187	93.7	200	0.353	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 81.5 % 43-149

Surrogate: 1-Chlorooctadecane 85.0 % 42.5-161

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: WW 2 (H223043-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	5.17		
Toluene*	<0.050	0.050	07/14/2022	ND	2.15	108	2.00	4.61		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.19	110	2.00	5.24		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.70	112	6.00	5.76		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	07/14/2022	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	07/14/2022	ND	194	96.8	200	5.88	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	187	93.7	200	0.353	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 95.6 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: SW 1 (H223043-33)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	5.17	
Toluene*	<0.050	0.050	07/14/2022	ND	2.15	108	2.00	4.61	
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.19	110	2.00	5.24	
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.70	112	6.00	5.76	
Total BTX	<0.300	0.300	07/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	80.0	16.0	07/14/2022	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	07/14/2022	ND	194	96.8	200	5.88	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	187	93.7	200	0.353	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 94.5 % 43-149

Surrogate: 1-Chlorooctadecane 100 % 42.5-161

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: SW 2 (H223043-34)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	5.17		
Toluene*	<0.050	0.050	07/14/2022	ND	2.15	108	2.00	4.61		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.19	110	2.00	5.24		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.70	112	6.00	5.76		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/14/2022	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	07/14/2022	ND	194	96.8	200	5.88	
DRO >C10-C28*	<10.0	10.0	07/14/2022	ND	187	93.7	200	0.353	
EXT DRO >C28-C36	<10.0	10.0	07/14/2022	ND					

Surrogate: 1-Chlorooctane 94.1 % 43-149

Surrogate: 1-Chlorooctadecane 116 % 42.5-161

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: SW 3 (H223043-35)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	5.17		
Toluene*	<0.050	0.050	07/14/2022	ND	2.15	108	2.00	4.61		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.19	110	2.00	5.24		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.70	112	6.00	5.76		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/14/2022	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	07/15/2022	ND	194	96.8	200	5.88	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	187	93.7	200	0.353	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 72.0 % 43-149

Surrogate: 1-Chlorooctadecane 73.3 % 42.5-161

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: SW 4 (H223043-36)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	5.17		
Toluene*	<0.050	0.050	07/14/2022	ND	2.15	108	2.00	4.61		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.19	110	2.00	5.24		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.70	112	6.00	5.76		
Total BTX	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	07/14/2022	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	07/15/2022	ND	194	96.8	200	5.88	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	187	93.7	200	0.353	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 43-149

Surrogate: 1-Chlorooctadecane 77.4 % 42.5-161

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

Received:	07/14/2022	Sampling Date:	07/13/2022
Reported:	07/15/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Shalyn Rodriguez
Project Location:	COG - EDDY CO NM		

Sample ID: EW 2 (H223043-37)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/14/2022	ND	2.09	105	2.00	5.17		
Toluene*	<0.050	0.050	07/14/2022	ND	2.15	108	2.00	4.61		
Ethylbenzene*	<0.050	0.050	07/14/2022	ND	2.19	110	2.00	5.24		
Total Xylenes*	<0.150	0.150	07/14/2022	ND	6.70	112	6.00	5.76		
Total BTEx	<0.300	0.300	07/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/14/2022	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	07/15/2022	ND	194	96.8	200	5.88	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	187	93.7	200	0.353	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 77.1 % 43-149

Surrogate: 1-Chlorooctadecane 76.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

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 cursive script, appearing to read "Celey D. Keene", written in black ink.

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

1 of 1

Page 40 of 43

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: K. Purvis				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 W Marland				Company: COG																									
City: Hobbs		State: NM		Zip: 88240		Attn: Jacqui Harris																							
Phone #: (575) 264-9884		Fax #:		Address:																									
Project #: 15570		Project Owner: COG		City:																									
Project Name: Boo Radley Fed Com				State:																Zip:									
Project Location: Rural Eddy County, NM				Phone #:																									
Sampler Name: Dominic Casarez				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	
H283043				C		1																							
1		FL6 e5.5'		C		1																							
2		FL7 e5.5'		C		1																							
3		FL8 e5.5'		C		1																							
4		FL9 e5.5'		C		1																							
5		FL10 e5.5'		C		1																							
6		FL16 e5.5'		C		1																							
7		FL17 e5.5'		C		1																							
8		FL18 e5.5'		C		1																							
9		FL19 e5.5'		C		1																							
10		FL20 e5.5'		C		1																							

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Relinquished By: [Signature]		Date: 1/13/12		Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By: [Signature]		Date: 7/14/12		Received By: [Signature]		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One) -0.6°C -0.6°C		Sample Condition:		CHECKED BY: (Initials)		REMARKS: Rush! Please email results and copy of CoC to pm@etechenv.com.			
Sampler - UPS - Bus - Other: -1.2°C #113		Sample Condition:		CHECKED BY: (Initials)					

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 4

Page 41 of 43

Company Name: Etch Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: K. Purvis				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: COG																							
City: Hobbs State: NM Zip: 88240				Attn: Jacqui Harris																							
Phone #: (575) 264-9884 Fax #:				Address:																							
Project #: 15570 Project Owner: COG				City:																							
Project Name: Boo Badley Fed Com				State: Zip:																							
Project Location: Rural Eddy County, NM				Phone #:																							
Sampler Name: Dominic Casarez				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													
H223043																											
11	FL26055'	C	1			✓					✓		7/13/22		X	X	X										
12	FL27055'																										
13	FL28055'																										
14	FL29055'																										
15	FL30055'																										
16	FL36055'																										
17	FL37055'																										
18	FL38055'																										
19	FL39055'																										
20	FL40055'																										
<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: [Signature]		Date: 7/13/22 Time: 5:00pm		Received By: [Signature]		Date: 7/14/22 Time: 0847		Sample Condition: Cool Intact		CHECKED BY: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:		REMARKS: Rush!							
Relinquished By: [Signature]		Date: 7-14-22 Time: 0847		Received By: [Signature]		Date: 7-14-22 Time: 0847		Sample Condition: Cool Intact		CHECKED BY: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:		REMARKS: Rush!							
Delivered By: (Circle One)		-0.6°C -0.6°C		Sampler - UPS - Bus - Other:		-1.2°C #113		Sample Condition: Cool Intact		CHECKED BY: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		Add'l Fax #:		REMARKS: Rush!							

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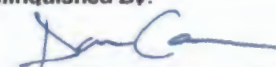
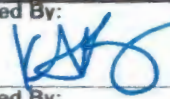
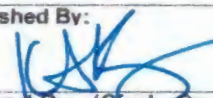
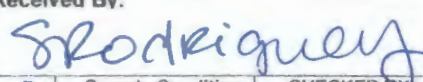
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

30p4

Page 42 of 43

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO		ANALYSIS REQUEST																														
Project Manager: K. Purvis		P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																														
Address: 2617 W Marland		Company: COG																																
City: Hobbs State: NM Zip: 88240		Attn: Jacqui Harris																																
Phone #: (575) 264-9884 Fax #:		Address:																																
Project #: 15570 Project Owner: COG		City:																																
Project Name: Boo Radley Fed Cpm		State: Zip:																																
Project Location: Rural Eddy County, NM		Phone #:																																
Sampler Name: Dominic Casarez		Fax #:																																
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										
H223043																																		
21	FL46 e5.5'	C	1			✓					✓		7/13/22		X	X	X																	
22	FL47 e5.5'																																	
23	FL48 e5.5'																																	
24	FL49 e5.5'																																	
25	FL50 e5.5'																																	
26	FL56 e5.5'																																	
27	FL57 e5.5'																																	
28	FL58 e5.5'																																	
29	FL59 e5.5'																																	
30	FL60 e5.5'																																	

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Relinquished By: 	Date: 7/13/22 Time: 5:00pm	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:
Relinquished By: 	Date: 7-14-22 Time: 0847	Received By: 	<p>Rush!</p> <p>Please email results and copy of CoC to pm@etechenv.com.</p>
Delivered By: (Circle One) - O. U. C. - D. U. C.	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) SR	
Sampler - UPS - Bus - Other: - 1.2 - #113			

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 43 of 43

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: K. Purvis				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: COG																							
City: Hobbs State: NM Zip: 88240				Attn: Jacqui Harris																							
Phone #: (575) 264-9884 Fax #:				Address:																							
Project #: 15570 Project Owner: COG				City:																							
Project Name: Boo Radley Fed Com				State: Zip:																							
Project Location: Rural Eddy County, NM				Phone #:																							
Sampler Name: Dominic Casarez				Fax #:																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																			
Lab I.D.	Sample I.D.	GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :	DATE	TIME													
H223043																											
31	WW 1	C				✓				✓			7/13/22		X	X	X										
32	WW 2																										
33	SW 1																										
34	SW 2																										
35	SW 3																										
36	SW 4																										
37	EW 2																										
		Rush 7/14/22																									
<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: Date: 7/13/22 Time: 5:00pm		Received By: Date: 7/14/22 Time: 0847		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Add'l Fax #: REMARKS: <div style="font-size: 2em; font-weight: bold;">Rush!</div>					
Delivered By: (Circle One) -0.6°C -0.6°C Sampler - UPS - Bus - Other: -1.2°C #113																		Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 		Please email results and copy of CoC to pm@etechenv.com.					

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

July 18, 2022

KATHY PURVIS

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BOO RADLEY FED COM 701H, 702H & 703H

Enclosed are the results of analyses for samples received by the laboratory on 07/15/22 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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.

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 66 @ 5.5' (H223095-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2022	ND	2.04	102	2.00	7.42		
Toluene*	<0.050	0.050	07/16/2022	ND	2.13	106	2.00	6.64		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.16	108	2.00	5.71		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.57	109	6.00	4.74		
Total BTEX	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	16.0	16.0	07/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	210	105	200	15.9	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	202	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 43-149

Surrogate: 1-Chlorooctadecane 85.8 % 42.5-161

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 67 @ 5.5' (H223095-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2022	ND	2.04	102	2.00	7.42		
Toluene*	<0.050	0.050	07/16/2022	ND	2.13	106	2.00	6.64		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.16	108	2.00	5.71		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.57	109	6.00	4.74		
Total BTEx	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	07/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	210	105	200	15.9	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	202	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 76.3 % 43-149

Surrogate: 1-Chlorooctadecane 76.2 % 42.5-161

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 68 @ 5.5' (H223095-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2022	ND	2.04	102	2.00	7.42		
Toluene*	<0.050	0.050	07/16/2022	ND	2.13	106	2.00	6.64		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.16	108	2.00	5.71		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.57	109	6.00	4.74		
Total BTEx	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/18/2022	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	07/15/2022	ND	210	105	200	15.9	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	202	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 101 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 69 @ 5.5' (H223095-04)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2022	ND	2.04	102	2.00	7.42	
Toluene*	<0.050	0.050	07/16/2022	ND	2.13	106	2.00	6.64	
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.16	108	2.00	5.71	
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.57	109	6.00	4.74	
Total BTX	<0.300	0.300	07/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/18/2022	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	07/15/2022	ND	210	105	200	15.9	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	202	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 43-149

Surrogate: 1-Chlorooctadecane 96.0 % 42.5-161

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 70 @ 5.5' (H223095-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2022	ND	2.04	102	2.00	7.42	
Toluene*	<0.050	0.050	07/16/2022	ND	2.13	106	2.00	6.64	
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.16	108	2.00	5.71	
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.57	109	6.00	4.74	
Total BTX	<0.300	0.300	07/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	07/18/2022	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	07/15/2022	ND	210	105	200	15.9	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	202	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 88.0 % 43-149

Surrogate: 1-Chlorooctadecane 86.4 % 42.5-161

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Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 76 @ 5.5' (H223095-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2022	ND	2.04	102	2.00	7.42		
Toluene*	<0.050	0.050	07/16/2022	ND	2.13	106	2.00	6.64		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.16	108	2.00	5.71		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.57	109	6.00	4.74		
Total BTX	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	<16.0	16.0	07/18/2022	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	07/15/2022	ND	210	105	200	15.9	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	202	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 75.4 % 43-149

Surrogate: 1-Chlorooctadecane 77.0 % 42.5-161

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Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 70	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 77 @ 5.5' (H223095-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2022	ND	2.04	102	2.00	7.42		
Toluene*	<0.050	0.050	07/16/2022	ND	2.13	106	2.00	6.64		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.16	108	2.00	5.71		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.57	109	6.00	4.74		
Total BTEx	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	07/18/2022	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	07/15/2022	ND	210	105	200	15.9	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	202	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					

Surrogate: 1-Chlorooctane 78.7 % 43-149

Surrogate: 1-Chlorooctadecane 82.1 % 42.5-161

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Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 78 @ 5.5' (H223095-08)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2022	ND	2.04	102	2.00	7.42		
Toluene*	<0.050	0.050	07/16/2022	ND	2.13	106	2.00	6.64		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.16	108	2.00	5.71		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.57	109	6.00	4.74		
Total BTX	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	32.0	16.0	07/18/2022	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	07/16/2022	ND	210	105	200	15.9	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	202	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 43-149

Surrogate: 1-Chlorooctadecane 99.7 % 42.5-161

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Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 79 @ 5.5' (H223095-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2022	ND	2.04	102	2.00	7.42		
Toluene*	<0.050	0.050	07/16/2022	ND	2.13	106	2.00	6.64		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.16	108	2.00	5.71		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.57	109	6.00	4.74		
Total BTEx	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/18/2022	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	07/16/2022	ND	210	105	200	15.9	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	202	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 97.4 % 43-149

Surrogate: 1-Chlorooctadecane 99.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 80 @ 5.5' (H223095-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2022	ND	2.04	102	2.00	7.42		
Toluene*	<0.050	0.050	07/16/2022	ND	2.13	106	2.00	6.64		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.16	108	2.00	5.71		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.57	109	6.00	4.74		
Total BTEx	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	07/18/2022	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	07/16/2022	ND	210	105	200	15.9	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	202	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 72.6 % 43-149

Surrogate: 1-Chlorooctadecane 75.3 % 42.5-161

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Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 86 @ 5.5' (H223095-11)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2022	ND	2.04	102	2.00	7.42		
Toluene*	<0.050	0.050	07/16/2022	ND	2.13	106	2.00	6.64		
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.16	108	2.00	5.71		
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.57	109	6.00	4.74		
Total BTX	<0.300	0.300	07/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	16.0	16.0	07/18/2022	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	07/16/2022	ND	210	105	200	15.9	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	202	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 105 % 43-149

Surrogate: 1-Chlorooctadecane 110 % 42.5-161

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Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 87 @ 5.5' (H223095-12)

BTX 8021B		mg/ kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	2.03	101	2.00	11.2		
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	10.6		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	11.9		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.50	108	6.00	12.1		
Total BTX	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	32.0	16.0	07/18/2022	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	07/16/2022	ND	210	105	200	15.9	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	202	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 78.9 % 43-149

Surrogate: 1-Chlorooctadecane 78.7 % 42.5-161

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Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 88 @ 5.5' (H223095-13)

BTX 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	2.03	101	2.00	11.2		
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	10.6		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	11.9		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.50	108	6.00	12.1		
Total BTX	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	07/18/2022	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	07/16/2022	ND	210	105	200	15.9		
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	202	101	200	10.4		
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND						

Surrogate: 1-Chlorooctane 101 % 43-149

Surrogate: 1-Chlorooctadecane 109 % 42.5-161

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 89 @ 5.5' (H223095-14)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.03	101	2.00	11.2	
Toluene*	0.135	0.050	07/15/2022	ND	2.09	104	2.00	10.6	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	11.9	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.50	108	6.00	12.1	
Total BTEx	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	48.0	16.0	07/18/2022	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	07/16/2022	ND	210	105	200	15.9	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	202	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 70.4 % 43-149

Surrogate: 1-Chlorooctadecane 71.1 % 42.5-161

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 90 @ 5.5' (H223095-15)

BTX 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	2.03	101	2.00	11.2		
Toluene*	0.089	0.050	07/15/2022	ND	2.09	104	2.00	10.6		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	11.9		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.50	108	6.00	12.1		
Total BTX	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	07/18/2022	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	07/16/2022	ND	210	105	200	15.9		
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	202	101	200	10.4		
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND						

Surrogate: 1-Chlorooctane 71.5 % 43-149

Surrogate: 1-Chlorooctadecane 72.2 % 42.5-161

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 96 @ 5.5' (H223095-16)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.03	101	2.00	11.2	
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	10.6	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	11.9	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.50	108	6.00	12.1	
Total BTEx	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	16.0	16.0	07/18/2022	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	07/16/2022	ND	210	105	200	15.9	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	202	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 94.3 % 43-149

Surrogate: 1-Chlorooctadecane 95.0 % 42.5-161

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 97 @ 5.5' (H223095-17)

BTX 8021B		mg/ kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	2.03	101	2.00	11.2		
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	10.6		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	11.9		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.50	108	6.00	12.1		
Total BTX	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	64.0	16.0	07/18/2022	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	07/16/2022	ND	210	105	200	15.9	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	202	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 73.6 % 43-149

Surrogate: 1-Chlorooctadecane 74.1 % 42.5-161

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 98 @ 5.5' (H223095-18)

BTX 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	2.03	101	2.00	11.2		
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	10.6		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	11.9		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.50	108	6.00	12.1		
Total BTX	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	16.0	16.0	07/18/2022	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	07/16/2022	ND	210	105	200	15.9		
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	202	101	200	10.4		
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND						

Surrogate: 1-Chlorooctane 76.8 % 43-149

Surrogate: 1-Chlorooctadecane 76.5 % 42.5-161

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 99 @ 5.5' (H223095-19)

BTX 8021B			mg/kg							
			Analyzed By: JH/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	2.03	101	2.00	11.2		
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	10.6		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	11.9		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.50	108	6.00	12.1		
Total BTX	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	07/18/2022	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	07/16/2022	ND	210	105	200	15.9		
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	202	101	200	10.4		
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND						

Surrogate: 1-Chlorooctane 76.0 % 43-149

Surrogate: 1-Chlorooctadecane 77.1 % 42.5-161

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	BOO RADLEY FED COM 701H, 702H & 703H	Sampling Condition:	Cool & Intact
Project Number:	15570	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: FL 100 @ 5.5' (H223095-20)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	2.03	101	2.00	11.2	
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	10.6	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	11.9	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.50	108	6.00	12.1	
Total BTX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	07/18/2022	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	07/16/2022	ND	210	105	200	15.9	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	202	101	200	10.4	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 70.7 % 43-149

Surrogate: 1-Chlorooctadecane 70.4 % 42.5-161

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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



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

10/27

Page 23 of 24

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: K. Purvis				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: COG																							
City: Hobbs		State: NM		Zip: 88240		Attn: Jacqui Harris																					
Phone #: (575) 264-9884		Fax #:		Address:		City:																					
Project #: 15570		Project Owner: COG		State:		Zip:																					
Project Name: Boo Badley Fed Com				Phone #:																							
Project Location: Rural Eddy County, NM				Fax #:																							
Sampler Name: Dominic Casarez																											
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													
H223095																											
1	FL 66 @ 5.5'												7/14/22		X	X	X										
2	FL 67 @ 5.5'																										
3	FL 68 @ 5.5'																										
4	FL 69 @ 5.5'																										
5	FL 70 @ 5.5'																										
6	FL 76 @ 5.5'																										
7	FL 77 @ 5.5'																										
8	FL 78 @ 5.5'																										
9	FL 79 @ 5.5'																										
10	FL 80 @ 5.5'																										
<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: [Signature]				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:															
Relinquished By: [Signature]				Received By: [Signature]				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:															
Delivered By: (Circle One)				Sample Condition				CHECKED BY:				<p>Rush!</p> <p>Please email results and copy of CoC to pm@etechenv.com.</p>															
Sampler - UPS - Bus - Other:				Cool Intact				(Initials)																			
-1.2 C-0.6i				<input type="checkbox"/> Yes <input type="checkbox"/> No				TO																			
-1.8i #13				<input type="checkbox"/> Yes <input type="checkbox"/> No																							

FORM-006
Revision 1.0

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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 24 of 24

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO												ANALYSIS REQUEST													
Project Manager: K. Purvis				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 W Marland				Company: COG																									
City: Hobbs State: NM Zip: 88240				Attn: Jacqui Harris																									
Phone #: (575) 264-9884 Fax #:				Address:																									
Project #: 15570 Project Owner: COG				City:																									
Project Name: Boo Badley Fed Com				State: Zip:																									
Project Location: Rural Eddy County, NM				Phone #:																									
Sampler Name: Dominic Casarez				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	
H223095				C		1																							
11		FL 86 @ 5.5'		C		1																							
12		FL 87 @ 5.5'		C		1																							
13		FL 88 @ 5.5'		C		1																							
14		FL 89 @ 5.5'		C		1																							
15		FL 90 @ 5.5'		C		1																							
16		FL 96 @ 5.5'		C		1																							
17		FL 97 @ 5.5'		C		1																							
18		FL 98 @ 5.5'		C		1																							
19		FL 99 @ 5.5'		C		1																							
20		FL 100 @ 5.5'		C		1																							
<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: [Signature]				Date: 7-14-22				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
Relinquished By: [Signature]				Date: 7-15-22				Received By: [Signature]				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Delivered By: (Circle One) -1.2i C-0.6i				Sample Condition				CHECKED BY: (Initials)				<p>REMARKS:</p> <p>Rush!</p> <p>Please email results and copy of CoC to pm@etechenv.com.</p>																	
Sampler - UPS - Bus - Other: -1.8i #113				Cool Intact				Yes <input type="checkbox"/> No <input type="checkbox"/>																					

FORM-006
Revision 1.0

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

Appendix E

Regulatory Correspondence

Kathy Purvis

From: Harris, Jacqui <Jacqui.Harris@conocophillips.com>
Sent: Friday, March 18, 2022 2:58 PM
To: Joel Lowry
Cc: Kathy Purvis
Subject: FW: [EXTERNAL](Extension Approval) Boo Radley 701H, 702H & 703H (NAPP2202148700) 12-18-2021

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Friday, March 18, 2022 2:30 PM
To: Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Cc: Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Gonzalez, Jessika L <Jessika.L.Gonzalez@conocophillips.com>; Harris, Jacqui <Jacqui.Harris@conocophillips.com>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: [EXTERNAL](Extension Approval) Boo Radley 701H, 702H & 703H (NAPP2202148700) 12-18-2021

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

RE: Incident #NAPP2202148700

Brittany,

Your request for an extension to **June 18th, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Sent: Friday, March 18, 2022 10:13 AM
To: spills@slo.state.nm.us; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Gonzalez, Jessika L <Jessika.L.Gonzalez@conocophillips.com>;

Esparza, Brittany <Brittany.Esparza@conocophillips.com>; Harris, Jacqui <Jacqui.Harris@conocophillips.com>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>

Subject: [EXTERNAL] (Extension Request #1) Boo Radley 701H, 702H & 703H (NAPP2202148700) 12-18-2021

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom it May Concern,

Under the new spill rule a Work Plan or Closure Report is due for the above release on March 18, 2022. Due to drilling, the location of this release is not accessible. ConocoPhillips is requesting a three-month extension until June 18, 2022 in order for drilling to be completed.

Please let me know if you have any questions or concerns.

Thank you,

Brittany N. Esparza

Brittany N. Esparza | Environmental Technician, Permian | **ConocoPhillips**

O: 432-221-0398 | C: 432-349-1911 | 1CC-331 Midland, Texas

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 137979

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 137979
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	10/27/2022