

Remediation Summary & Soil Closure Request

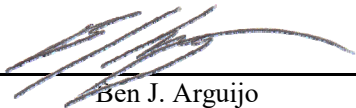
Mewbourne Oil Company Apollo Chile Verde Water Transfer Line


Eddy County, New Mexico
Unit Letter "J", Section 15, Township 21 South, Range 27 East
Latitude 32.4780968 North, Longitude 104.1706733 West
NMOCD Reference No. nAPP2315849467

Prepared By:

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July 14, 2025


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Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Apollo Chile Verde Water Transfer Line (henceforth, "Chile Verde"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.4780968 Longitude: -104.1706733

Provided GPS are in WGS84 format.

Site Name: Apollo Chile Verde Water Transfer Line	Site Type: Pipeline
Date Release Discovered: 5/20/2023	API # (if applicable): N/A

Unit Letter	Section	Township	Range	County
"J"	15	21S	27E	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) Unknown	Volume Recovered (bbls) 240
	Is the concentration of dissolved chloride 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:

A lay-flat water transfer line developed a hole.

Initial Response

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

Previously submitted portions of the New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater (DTW) beneath the area affected by the release in feet below ground surface (bgs)?	Between 51 and 75 (ft.)
What method was used to determine the depth to groundwater?	Direct Measurement
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	
A continuously flowing watercourse or any other significant watercourse?	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution or church?	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Between 1,000 (ft.) and ½ (mi.)
Any other fresh water well or spring?	Between 1,000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	Between 1 and 5 (mi.)
A wetland?	Between 1 and 5 (mi.)
A subsurface mine?	Greater than 5 (mi.)
A (non-karst) unstable area?	Between 200 and 300 (ft.)
Categorize the risk of this well/site being in a karst geology.	Low
A 100-year floodplain?	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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 Chile Verde release site.

Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. In addition, on February 28, 2024, an investigative soil boring was drilled nearby to determine if shallow groundwater is present in the area. The soil boring was advanced to a total depth of approximately 55 feet bgs and left open for over 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil boring or prior to plugging and abandonment. In addition, a groundwater gauging event conducted on March 4, 2024, confirmed that the borehole was dry. The location of the investigative soil bore is depicted in Figures 2A, 2B, and 5. A drilling log is provided in Appendix A.

A karst study of the affected area was conducted by a third-party environmental contractor in March and April 2024. According to the *Environmental Karst Study Report* (dated May 12, 2024; amended October 7, 2024), "no surface karst features exist within the 200-foot (61-meter) zone surrounding the spill delineation boundary provided by the client. No anomalies consistent with air- or water-filled voids were found within the CVFR survey area, indicating the zone beneath the geophysical survey is stable. The lack of surface karst features does not mean the area is not karstified and the study area may still contain buried karst features outside of the areas where the geophysical survey was conducted." The karst study report is provided as Appendix E.

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the information summarized above, Mewbourne Oil Company requested that the NMOCD Closure Criteria for the Chile Verde release site be revised as listed in the table below. The request was subsequently approved by the NMOCD and BLM.

Closure Criteria for Soils Impacted by a Release

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Original Closure Criteria**†	Revised Closure Criteria**†
Between 51 and 75 (ft.)	Chloride (Cl-)	EPA** 300.0 or SM4500 Cl B	600	10,000
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	2,500
	Gas Range Organics + Diesel Range Organics (GRO+DRO)	EPA SW-846 Method 8015M	N/A	1,000
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)

** Environmental Protection Agency

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

4.0 INITIAL SITE ASSESSMENT

On June 7, 2023, Etech conducted an initial site assessment. During the site assessment, a series of test trenches (SP 1 through SP 5) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. In addition, a series of hand-augered soil bores (NH 1 through NH 5, EH 1, SH 1 through SH 5, and WH 1) 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 soil bores/test trenches, soil samples were collected and field-screened for concentrations of chloride utilizing a Hach Quantab ® chloride test kit and/or the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses.

Based on field observations and field test data, a total of 34 delineation soil samples (NH 1 @ Sur, NH 1 @ 1', NH 2 @ Sur, NH 2 @ 1', NH 3 @ Sur, NH 3 @ 1', NH 4 @ Sur, NH 4 @ 1', NH 5 @ Sur, NH 5 @ 1', EH 1 @ Sur, EH 1 @ 1', SH 1 @ Sur, SH 1 @ 1', SH 2 @ Sur, SH 2 @ 1', SH 3 @ Sur, SH 3 @ 1', SH 4 @ Sur, SH 4 @ 1', SH 5 @ Sur, SH 5 @ 1', WH 1 @ Sur, WH 1 @ 1', SP 1 @ Sur, SP 1 @ 10', SP 2 @ Sur, SP 2 @ 8', SP 3 @ Sur, SP 3 @ 8', SP 4 @ Sur, SP 4 @ 4', SP 5 @ Sur, and SP 5 @ 3') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results and field screens, the horizontal extent of impacted soil was adequately defined. The vertical extent of impacted soil was adequately defined in the areas characterized by sample points SP 3 through SP 5 and ranged from approximately two (2) feet bgs in SP 5 to seven (7) feet bgs in SP 3. Impacted soil did not extend beyond three (3) feet bgs in the area characterized by sample point SP 4. Additional vertical delineation was required to determine the vertical extent of chloride contamination in the areas characterized by sample points SP 1 and SP 2.

On June 19, 2023, test trenches SP 1 and SP 2 were re-entered and further advanced in an effort to determine the vertical extent of impacted soil. The test trenches were advanced to depths of 11 feet and nine (9) feet bgs, respectively, and two (2) additional delineation soil samples (SP 1 @ 11' and SP 2 @ 9') were collected and submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated that the chloride concentration in each soil sample exceeded the NMOCD Closure Criterion in effect at the time and additional vertical delineation was required.

On June 20, 2023, test trenches SP 1 and SP 2 were re-entered and further advanced in an effort to determine the vertical extent of impacted soil. The test trenches were advanced to depths of 11.5 and 9.5 feet bgs, respectively, and two (2) additional delineation soil samples (SP 1 @ 11.5' and SP 2 @ 9.5') were collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples, and the vertical extent of impacted soil was adequately defined.

The locations of the test trenches and hand-augered soil bores are depicted in Figure 3, "Delineaton Sample Location Map".

5.0 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
On what estimated date will (or did) the remediation commence?	7/5/2023
On what date will (or did) the final sampling or liner inspection occur?	6/18/2025
On what date will (or was) the remediation complete(d)?	6/18/2025
What is the total surface area (ft ²) in need of or that will <i>eventually</i> be reclaimed?	68,806
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	13,048
What was the total surface area (ft ²) that has or will be remediated?	68,806
What was the total volume (cy) that has or will be remediated?	13,192
This remediation utilized the following processes to remediate/reduce contaminants: (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	R360 Halfway Facility
NMOCD Disposal Facility ID?	fEEM0112334510
Summarize any additional remediation activities not included by answers above.	See below

On July 5, 2023, remediation activities commenced at the Chile Verde release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the requested NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal extent of impacted soil and to guide the excavation. The sidewalls of the excavation were advanced until field tests and field observations suggested that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. The entire affected area was excavated vertically to a total depth of approximately four (4) feet bgs. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events conducted to date is provided below:

Constituent	Highest Observable Concentration (mg/kg)	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	51,200	SP 1 @ Surf	6/7/2023	0	Excavated
TPH	241	SP 2 @ Surf	6/7/2023	0	Excavated
GRO+DRO	210	SP 2 @ Surf	6/7/2023	0	Excavated
BTEX	<0.300	All submitted soil samples	Various. See Table 1.	0 - 11.5	In-Situ & Excavated
Benzene	<0.050	All submitted soil samples	Various. See Table 1.	0 - 11.5	In-Situ & Excavated

Please reference Table 1 for additional information.

On July 7, 2023, Etech collected 34 confirmation soil samples (NW1 through NW16, EW1, EW2, EW3, and SW1 through SW15) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On July 10, 2023, Etech collected 19 confirmation soil samples (NW17 through NW25 and SW16 through SW25) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On July 13, 2023, Etech collected eight (8) confirmation soil samples (NW 26, NW 27, NW 28, EW 4, SW 26, SW 27, WW 1, and WW 2) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On July 17, 2023, Etech collected 20 confirmation soil samples (NW 29 through NW 33, EW 5 through EW 8, SW 28 through SW 34, and WW 3 through WW 6) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On July 20, 2023, Etech collected 15 confirmation soil samples (NW 34 through NW 40, EW 9, EW 10, EW 11, SW 35, SW 36, SW 37, SW 39, and WW 7) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On July 21, 2023, Etech collected six (6) confirmation soil samples (NW 41, NW 42, SW 38, WW 8, WW 9, and WW 10) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On July 25, 2023, Etech collected 10 confirmation soil samples (NW 43, NW 44, NW 45, SW 40, SW 41, SW 42, and WW 11 through WW 14) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On July 27, 2023, Etech collected 14 confirmation soil samples (NW 46 through NW 51, EW 12, SW 43 through SW 48, and WW 15) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of sample EW 12, which exceeded the NMOCD Reclamation Standard for chloride. Based on these laboratory analytical results, the excavation was subsequently further advanced in the area characterized by soil sample EW 12.

On July 28, 2023, Etech collected seven (7) confirmation soil samples (NW 52, EW 13, EW 14, SW 49, SW 50, WW 16, and WW 17) from the sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On July 31, 2023, based on laboratory analytical results, field observations, and in-situ chloride migration modeling, Mewbourne Oil Company submitted a *Variance Request* to the NMOCD requesting approval to install a 20-mil, string-

reinforced liner on the floor of the entire excavation/affected area atop impacted soil affected above the NMOCD Closure Criteria. The request was denied on January 26, 2024, on the basis that the NMOCD "will no longer approve liner installations for contaminant mitigation."

On August 1, 2023, Etech advanced four (4) test trenches (TT 1 through TT 4) within the release margins in an effort to further investigate the vertical extent of impacted soil. During the advancement of the test trenches, soil samples were collected at increments of two (2) feet and field-screened for concentrations of chloride utilizing a chloride test kit and/or the presence of VOCs utilizing olfactory/visual senses. Based on field test observations and field test data, a total of 14 delineation soil samples (TT 1 @ 4 through TT 1 @ 10, TT 2 @ 4 through TT 2 @ 10, TT 3 @ 4 through TT 3 @ 12, and TT 4 @ 4) were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the vertical extent of impacted soil was adequately defined and ranged from approximately four (4) feet bgs in trench TT 4 to approximately 12 feet bgs in trench TT 3.

On August 7, 2023, Etech collected one (1) confirmation soil sample (EW 12 B) from the sidewall of the excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated that the chloride concentration was below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

On August 17, 2023, Etech collected 20 confirmation soil samples (FT 1 @ 4 through FT 20 @ 4) from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. Chloride concentrations in soil samples FT 1 @ 4, FT 3 @ 4, FT 5 @ 4, FT 6 @ 4, FT 7 @ 4, FT 10 @ 4, FT 11 @ 4, and FT 14 @ 4 through FT 17 @ 4 exceeded the NMOCD Closure Criterion.

On August 22, 2023, Etech collected one (1) confirmation soil sample (EW 12 B) from the sidewall of the excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated that the chloride concentration was below the NMOCD Closure Criterion but exceeded the NMOCD Reclamation Standard. Based on these laboratory analytical results, the excavation was subsequently further advanced in the area characterized by soil sample EW 12 B.

On August 22, 2023, test trenches SP 1 and SP 2 were re-entered and resampled in an effort to confirm that vertical delineation of the affected area had been achieved. Two (2) additional delineation soil samples (SP 1 @ 11.5' and SP 2 @ 9.5') were collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples, and the vertical extent of impacted soil was adequately defined.

On August 30, 2023, Etech collected one (1) confirmation soil sample (EW 12 C) from the sidewall of the excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated that the chloride concentration was below the NMOCD Closure Criterion and NMOCD Reclamation Standard.

On July 19, 2024, based on remediation activities conducted to that point, along with the findings of the investigative soil boring and the karst survey summarized in Section 2.0 above, Mewbourne Oil Company submitted a *Remediation Summary & Variance Request* to the NMOCD requesting the following:

- A revision of the applicable Table 1 Closure Criteria from ≤50-foot DTW limits to 51- to 75-foot DTW limits (i.e., 10,000 mg/kg chloride; 2,500 mg/kg TPH; and 1,000 mg/kg GRO+DRO).
- An alternative sampling plan comprised of five-point composite confirmation samples collected from the floor of the excavated area at intervals representing no more than 400 ft².

On August 14, 2024, the requests were denied on the basis that the NMOCD did not accept the karst survey report prepared by the third-party contractor.

On October 18, 2024, following revision of the *Environmental Karst Study Report* by the third-party contractor in an effort to address the agency's concerns, Mewbourne Oil Company submitted an amended *Remediation Summary & Variance Request* (Amended Variance Request) to the NMOCD reiterating the previously requested variances.

On November 4, 2024, the Amended Variance Request was conditionally approved by the NMOCD. The request to collect confirmation floor samples at a frequency of 400 ft² was approved; however, sidewall samples were still required every 200 ft². The request for revised Table 1 Closure Criteria was denied on the basis that the NMOCD did not accept the revised *Environmental Karst Study Report* (Revised Karst Study Report). It was also mandated by the NMOCD that the discrepancy between the total surface area to be remediated/reclaimed listed in the Amended Variance Request and those listed in previous versions of the report be explained in the remediation closure request.

The original estimate of 98,123 ft² was based on data obtained using a smartphone-based GPS receiver, which is inherently less accurate than a dedicated, commercial-grade GPS unit. In addition, to ensure safety and avoid potential sidewall collapse, the GPS data collector remained several feet back from the edge of the excavation while walking the perimeter, resulting in an overestimate of the surface area. The revised estimate of 68,806 ft² was obtained by digitally tracing the boundaries of the excavation visible in newly available aerial imagery, which yielded a more accurate depiction of the remediated area.

On January 15, 2025, the Amended Variance Request, including the Revised Karst Study Report, was submitted to the BLM and subsequently approved as written on February 18, 2025.

On March 20, 2025, representatives of Mewbourne Oil Company and the NMOCD met via teleconference to discuss the Amended Variance Request and determine a path forward to an NMOCD-approved closure.

On March 28, 2025, the Amended Variance Request, including the Revised Karst Study Report, the alternative sampling plan, and revised NMOCD Closure Criteria (Revised Closure Criteria) was conditionally approved by the NMOCD. As with the conditional approval of the original *Remediation Summary & Variance Request*, the request to collect confirmation floor samples at a frequency of 400 ft² was approved, with sidewall samples required every 200 ft². It was also mandated that the liner(s) previously installed in the western portion of the excavation be removed and that contamination in sample points FT1, FT3, FT 5–7, FT 10–11, and FT 14–17 be remediated.

On March 29, 2025, Etech returned to the release site. In accordance with NMOCD requirements, the liner(s) installed in the western portion of the excavation were removed to facilitate additional remedial activities.

On April 1, 2025, Etech advanced test trenches in the areas characterized by sample points FT1, FT3, FT 5–7, FT 10–11, and FT 14–17. During the advancement of the test trenches, soil samples were collected and field-screened for concentrations of chloride utilizing a field test kit and/or the presence of VOCs utilizing olfactory/visual senses. Based on field observations and field test data, a total of 22 delineation soil samples (FT 1 @ 5', FT 1 @ 6', FT 3 @ 5', FT 3 @ 6', FT 5 @ 5', FT 5 @ 6', FT 6 @ 5', FT 6 @ 6', FT 7 @ 5', FT 7 @ 6', FT 10 @ 5', FT 10 @ 6', FT 11 @ 5', FT 11 @ 6', FT 14 @ 5', FT 14 @ 6', FT 15 @ 5', FT 15 @ 6', FT 16 @ 5', FT 16 @ 6', FT 17 @ 5', and FT 17 @ 6') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable Revised Closure Criteria in each of the submitted soil samples, and the vertical extent of impacted soil was adequately defined.

On April 2, 2025, Etech collected 79 confirmation soil samples (FL 1 @ 4' through FL 41 @ 4' and FL 43 @ 4' through FL 80 @ 4') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and TPH concentrations were below the applicable Revised Closure Criteria in each of the submitted soil samples. Chloride concentrations were below the Revised Closure Criterion in a majority of the submitted soil samples, with the exception of samples FL 70 @ 4', FL 71 @ 4', FL 75 @ 4', and FL 80 @ 4'. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples FL 70 @ 4', FL 71 @ 4', FL 75 @ 4', and FL 80 @ 4'.

On April 3, 2025, Etech collected 94 confirmation soil samples (FL 42 @ 4', FL 81 @ 4' through FL 143 @ 4', and FL 145 @ 4' through FL 174 @ 4') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable Revised Closure Criteria in each of the submitted soil samples, with the exception of sample FL 162 @ 4', which exceeded the Revised Closure Criterion for chloride. Based on these laboratory analytical results, the excavation was subsequently further advanced in the area characterized by soil sample FL 162 @ 4'.

On April 4, 2025, Etech collected one (1) confirmation soil sample (FL 144 @ 4') from the floor of the excavated area. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations in the sample were below the applicable Revised Closure Criteria.

On April 9, 2025, Etech collected five (5) confirmation soil samples (FL 70 @ 5', FL 71 @ 5', FL 75 @ 5', FL 80 @ 5', and FL 162 @ 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 that BTEX, TPH, and chloride concentrations were below the applicable Revised Closure Criteria in each of the submitted soil samples.

On April 21, 2025, Etech collected six (6) confirmation soil samples (FL 173 through FL 178) 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 that BTEX, TPH, and chloride concentrations were below the applicable Revised Closure Criteria in each of the submitted soil samples.

During preparation of the closure report for the release, it was discovered that confirmation wall sample EW 12 C collected on August 30, 2023, had not been analyzed for TPH and BTEX. On June 18, 2025, Etech returned to the release site, reexcavated the area characterized by sample point EW 12 C, and collected an additional composite wall sample (EW 12 D). The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations in the sample were below the applicable Revised Closure Criteria and NMOCD Reclamation Standards.

The final dimensions of the excavated area were approximately 1,965 feet in length, three (3) to 140 feet in width, and four (4) to five (5) feet in depth. During the course of remediation activities, Etech transported approximately 13,192 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported an equivalent volume of locally sourced, non-impacted material to the site for use as backfill.

Confirmation soil sample locations and the extent of the excavated area are depicted in Figures 4A – 4C. Soil chemistry data is summarized in Table 1. Field data and a soil profile log are provided in Appendix B. General photographs of the release site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix F.

6.0 CLOSURE REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
What was the total surface area (ft ²) remediated?	68,806	
What was the total volume (cy) remediated?	13,192	

Remediation activities were conducted in accordance with the NMOCD- and BLM-approved Amended Variance Request. Impacted soil affected above the Revised 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 that in-situ concentrations of BTEX, TPH, and chloride are below the applicable Revised Closure Criteria and/or NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends that Mewbourne Oil Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request remediation closure approval be granted to the Chile Verde release site.

7.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a reclamation approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a restoration complete approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
What was the total surface area (ft ²) reclaimed?	68,806	
What was the total volume (cy) reclaimed?	13,048	

On April 21, 2025, a 5-point composite soil sample (Backfill) was collected from the material imported to the site for use as backfill. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable Revised Closure Criteria and/or NMOCD Reclamation Standards and confirmed that the material was acceptable for use as backfill.

Upon receipt of all confirmation soil sample results, areas affected by remediation and closure activities were restored to the condition that existed prior to the release, to the extent practicable. Excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected areas were compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable.

On May 8, 2025, affected areas not on production pads, pipeline rights-of-way, and/or lease roads were revegetated with a BLM #3 seed mixture certified to be free of noxious weeds. The seed was installed at the prescribed rate utilizing a broadcaster and harrow. Photographs of the seeding event and a seed tag are provided in Appendix C. A "Revegetation Form" is provided in Appendix G.

8.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Soil Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents 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 Mewbourne Oil Company. Use of the information contained in this report is prohibited without the consent of Etech and/or Mewbourne Oil Company.

9.0 DISTRIBUTION

Mewbourne Oil Company

4801 Business Park Blvd.

Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

811 S. First Street

Artesia, NM 88210

United States Department of the Interior

Bureau of Land Management

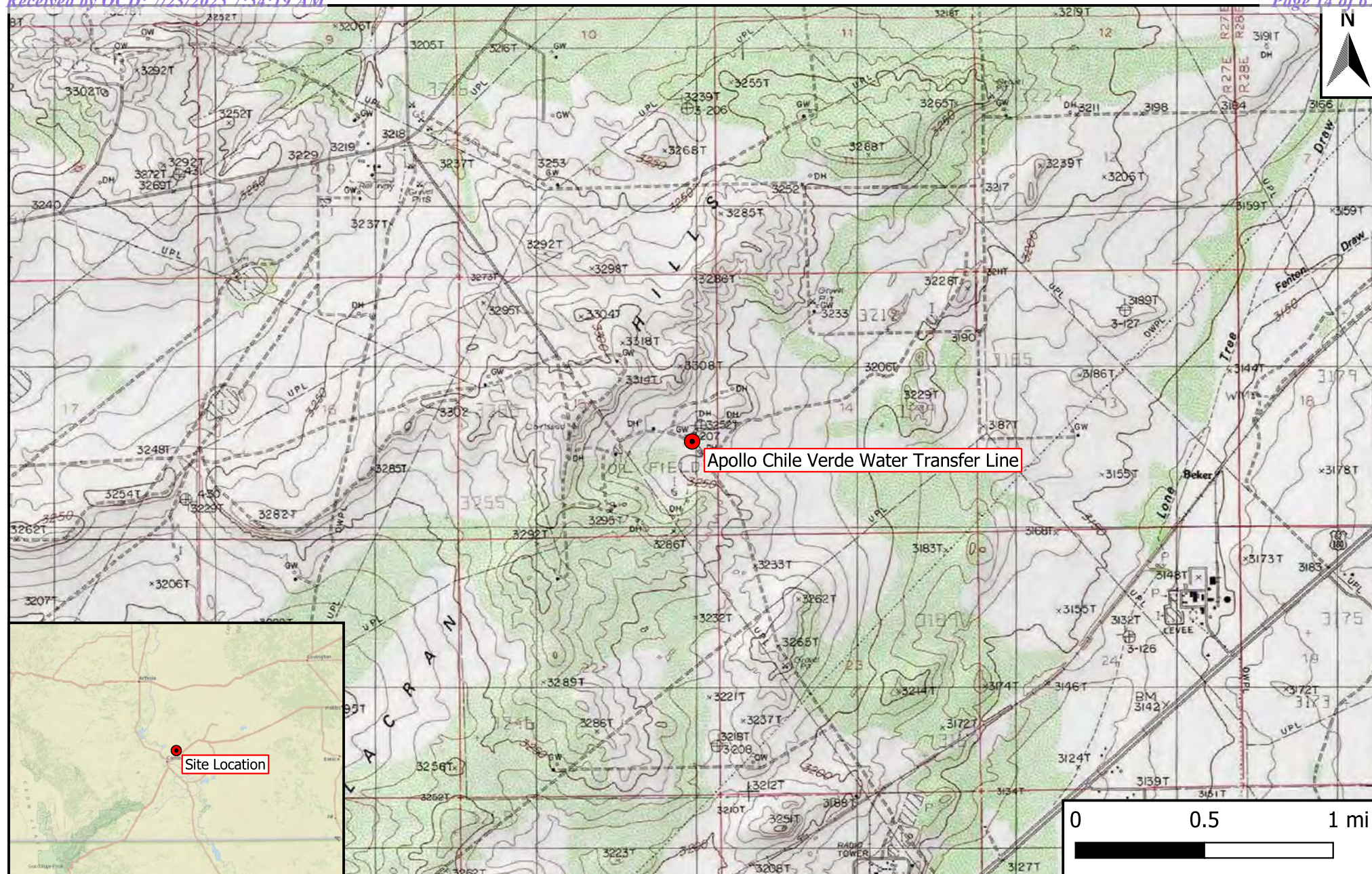
620 E. Greene Street

Carlsbad, NM 88220

(Electronic Submission)

Figure 1

Site Location Map



Legend

 Site Location

Figure 1

Site Location Map
Mewbourne Oil Company
Apollo Chile Verde Water Transfer Line
GPS: 32.4780968, -104.1706733
Eddy County, New Mexico



Drafted: bja

Checked: rlc

Date: 6/6/24

Figures 2A & 2B

Site Characterization Maps

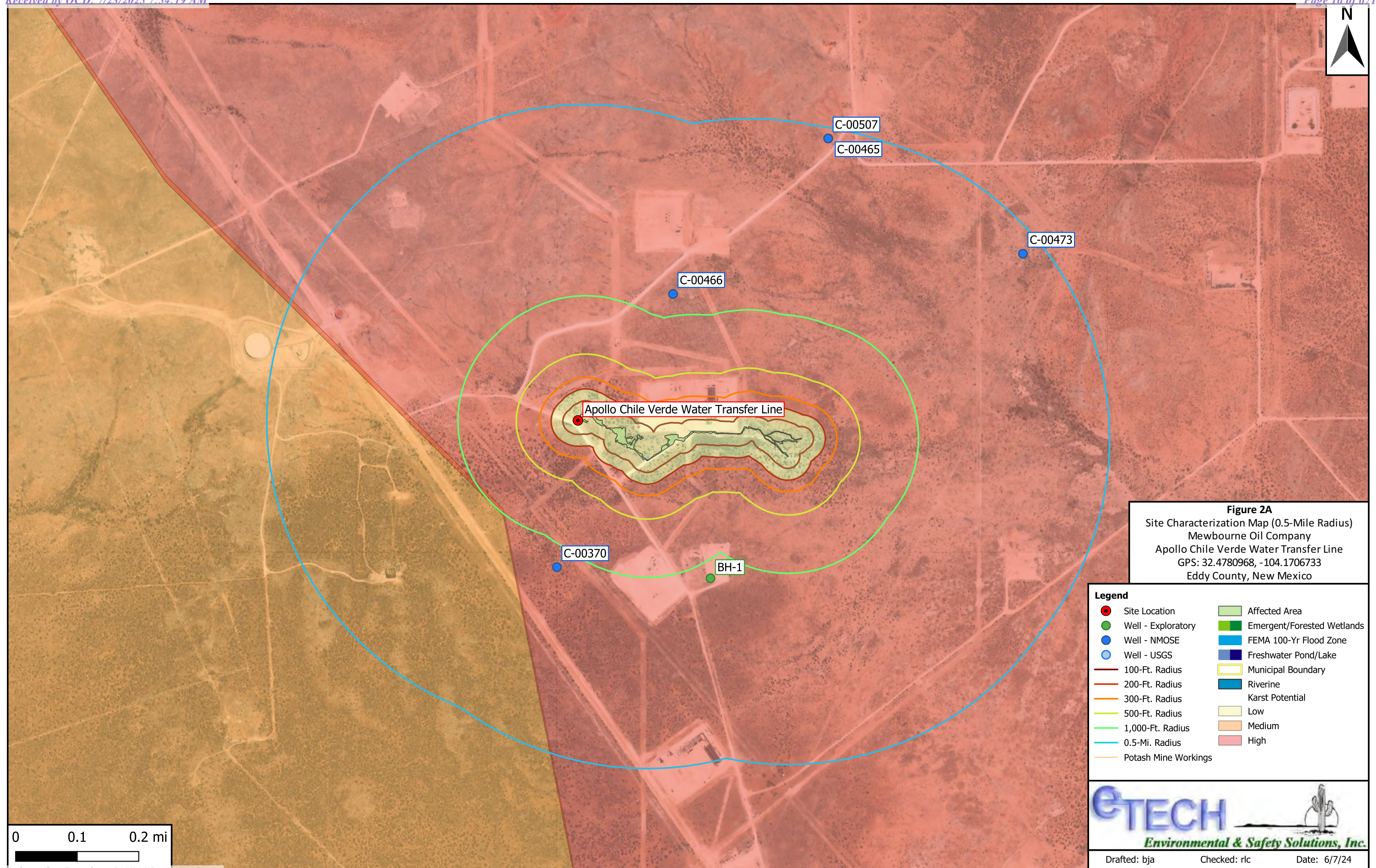


Figure 2A
Site Characterization Map (0.5-Mile Radius)
Mewbourne Oil Company
Apollo Chile Verde Water Transfer Line
GPS: 32.4780968, -104.1706733
Eddy County, New Mexico

- Legend**
- | | |
|----------------------|----------------------------|
| Site Location | Affected Area |
| Well - Exploratory | Emergent/Forested Wetlands |
| Well - NMOSE | FEMA 100-Yr Flood Zone |
| Well - USGS | Freshwater Pond/Lake |
| 100-Ft. Radius | Municipal Boundary |
| 200-Ft. Radius | Riverine |
| 300-Ft. Radius | Karst Potential |
| 500-Ft. Radius | Low |
| 1,000-Ft. Radius | Medium |
| 0.5-Mi. Radius | High |
| Potash Mine Workings | |



Environmental & Safety Solutions, Inc.

Drafted: bja	Checked: rlc	Date: 6/7/24
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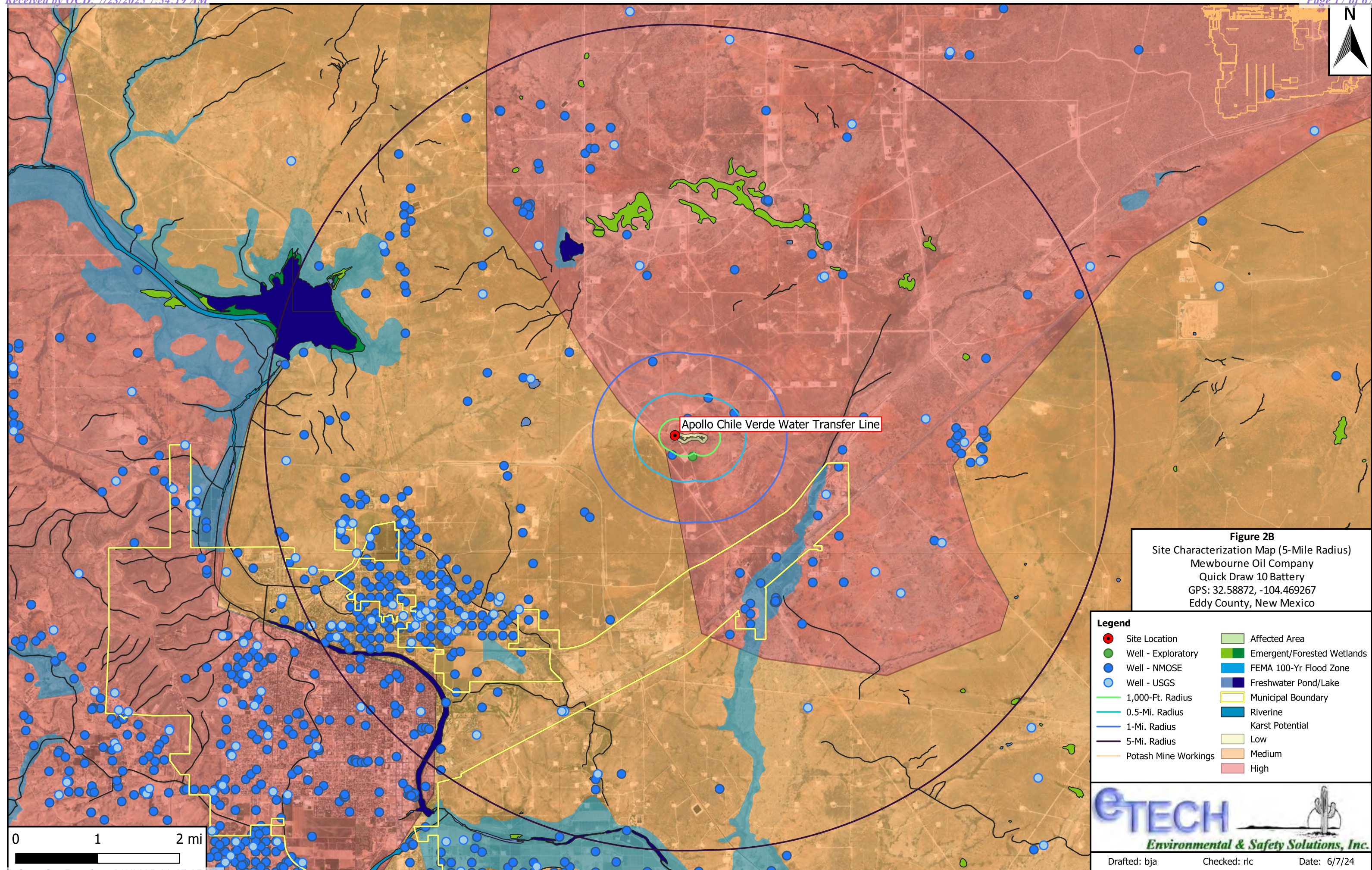
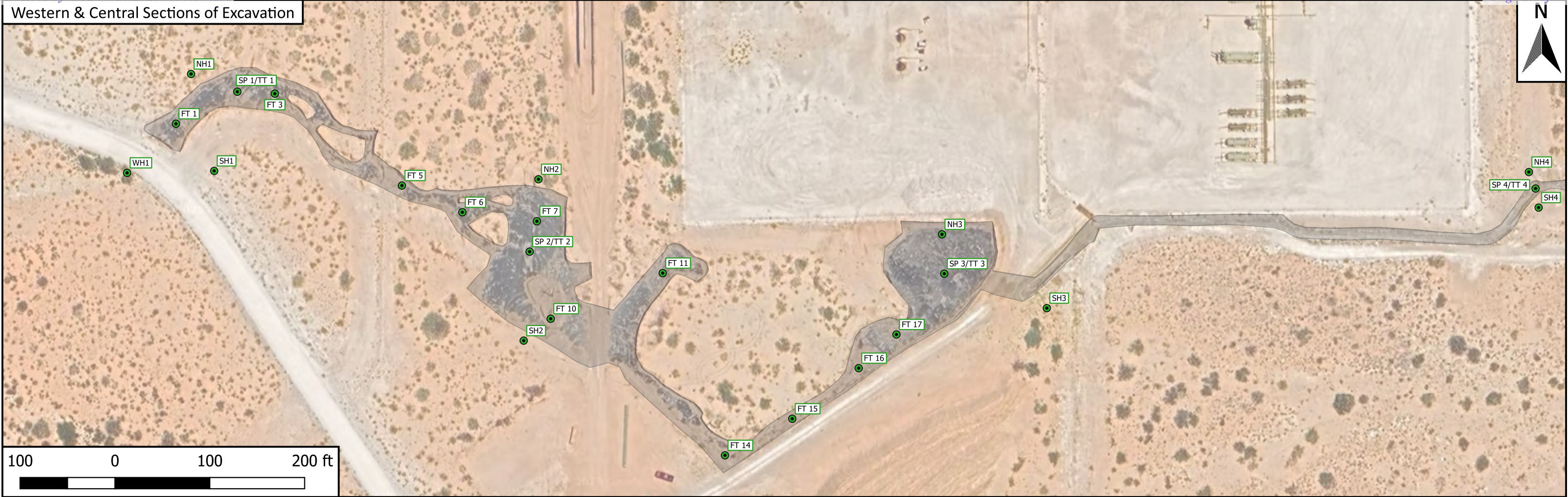


Figure 3

Delineation Sample Location Map

Western & Central Sections of Excavation



Eastern Section of Excavation



Legend

- Excavation Extent
- Delineation Sample Point

Figure 3
Delineation Sample Location Map
Apollo Chile Verde Water Transfer Line
GPS: 32.4780968, -104.1706733
Eddy County, New Mexico



Environmental & Safety Solutions, Inc.

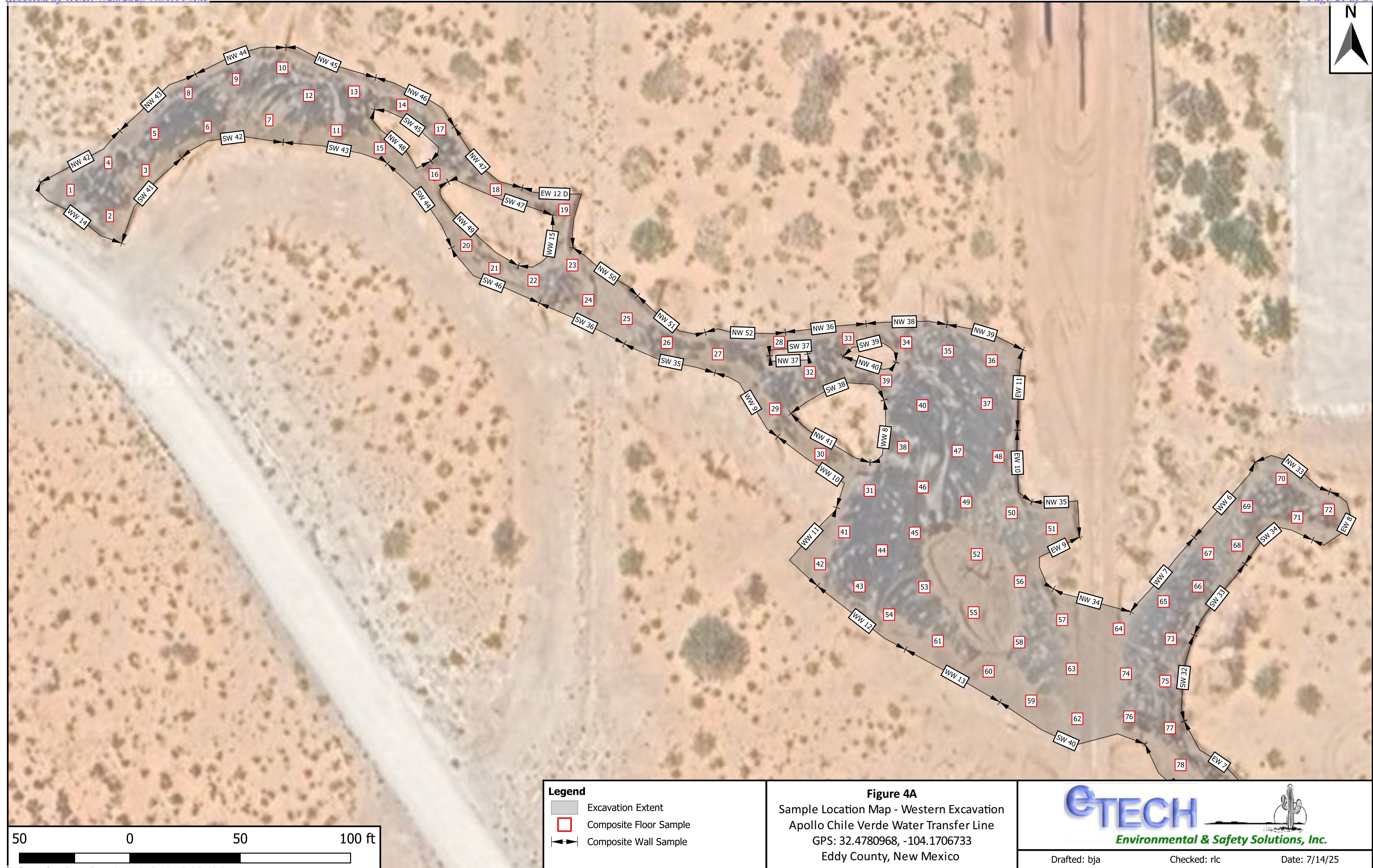
Drafted: bja

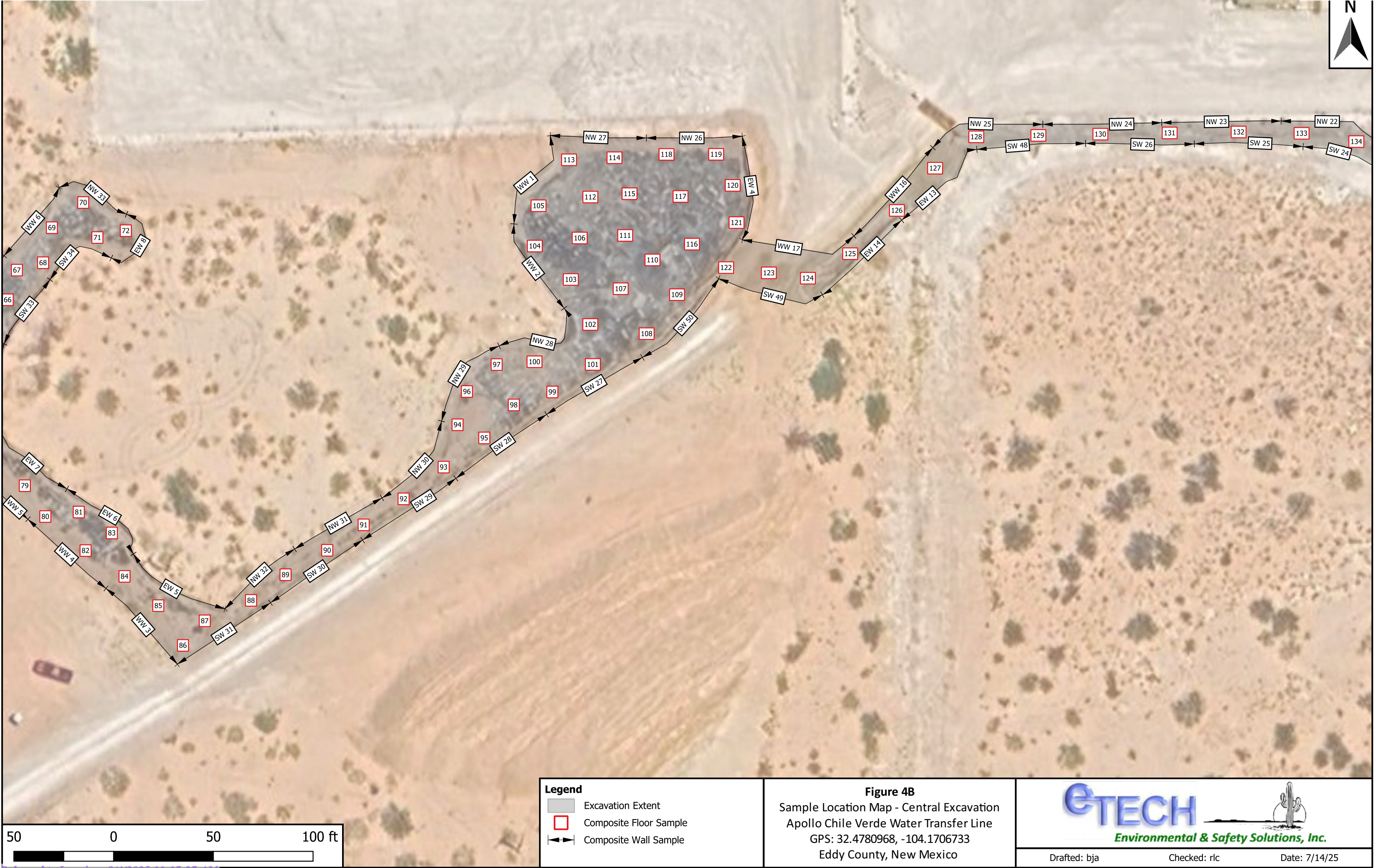
Checked: rlc

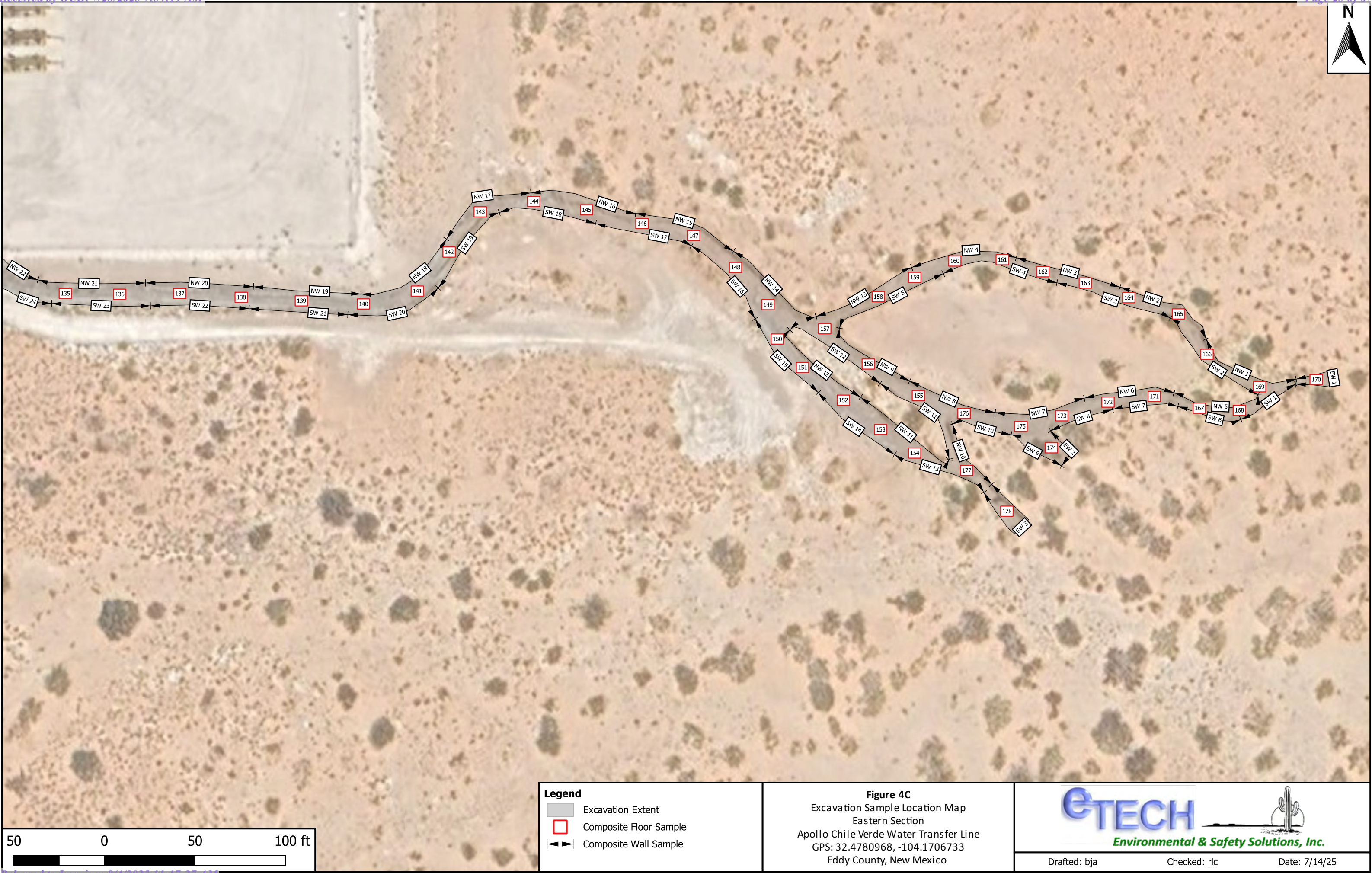
Date: 7/14/25

Figures 4A – 4C

Excavation Sample Location Maps







- Legend**
- Excavation Extent
 - Composite Floor Sample
 - Composite Wall Sample

Figure 4C
Excavation Sample Location Map
Eastern Section
Apollo Chile Verde Water Transfer Line
GPS: 32.4780968, -104.1706733
Eddy County, New Mexico



Drafted: bja Checked: rlc Date: 7/14/25

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Apollo Chile Verde Water Transfer Line NMOCD Ref. #: nAPP2315849467												
NMOCD Closure Criteria					10	50	N/A	N/A	1,000	N/A	2,500	10,000
NMOCD Reclamation Standard					10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Type	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)
NH 1 @ Surf	6/7/2023	0	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 1 @ 1	6/7/2023	1	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 2 @ Surf	6/7/2023	0	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 2 @ 1	6/7/2023	1	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 3 @ Surf	6/7/2023	0	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 3 @ 1	6/7/2023	1	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 4 @ Surf	6/7/2023	0	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 4 @ 1	6/7/2023	1	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 5 @ Surf	6/7/2023	0	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 5 @ 1	6/7/2023	1	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH 1 @ Surf	6/7/2023	0	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EH 1 @ 1	6/7/2023	1	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 1 @ Surf	6/7/2023	0	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH 1 @ 1	6/7/2023	1	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 2 @ Surf	6/7/2023	0	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 2 @ 1	6/7/2023	1	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 3 @ Surf	6/7/2023	0	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SH 3 @ 1	6/7/2023	1	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 4 @ Surf	6/7/2023	0	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SH 4 @ 1	6/7/2023	1	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 5 @ Surf	6/7/2023	0	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH 5 @ 1	6/7/2023	1	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 1 @ Surf	6/7/2023	0	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 1 @ 1	6/7/2023	1	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP 1 @ Surf	6/7/2023	0	D	Excavated	<0.050	<0.300	<10.0	10.1	10.1	<10.0	10.1	51,200
SP 1 @ 10	6/7/2023	10	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	960
SP 1 @ 11'	6/19/2023	11	D	In-Situ	-	-	-	-	-	-	-	880
SP 1 @ 11.5'	6/20/2023	11.5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP 1 @ 11.5	8/22/2023	11.5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
SP 2 @ Surf	6/7/2023	0	D	Excavated	<0.050	<0.300	<10.0	210	210	31.1	241	26,000
SP 2 @ 8	6/7/2023	8	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,840
SP 2 @ 9'	6/19/2023	9	D	In-Situ	-	-	-	-	-	-	-	992
SP 2 @ 9.5'	6/20/2023	9.5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SP 2 @ 9.5	8/22/2023	9.5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SP 3 @ Surf	6/7/2023	0	D	Excavated	<0.050	<0.300	<10.0	14.5	14.5	<10.0	14.5	27,200
SP 3 @ 8	6/7/2023	8	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SP 4 @ Surf	6/7/2023	0	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	22,000
SP 4 @ 4	6/7/2023	4	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SP 5 @ Surf	6/7/2023	0	D	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,000
SP 5 @ 3	6/7/2023	3	D	Excavated	<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.

Red Border with Shading: Highest observed concentration.

A - Assessment F - Backfill
D - Delineation B - Background
C - Confirmation O - Other
R - Deferral

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Apollo Chile Verde Water Transfer Line NMOCD Ref. #: nAPP2315849467												
NMOCD Closure Criteria					10	50	N/A	N/A	1,000	N/A	2,500	10,000
NMOCD Reclamation Standard					10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Type	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)
TT 1 @ 4	8/1/2023	4	D	In-Situ	-	-	-	-	-	-	-	9,300
TT 1 @ 6	8/1/2023	6	D	In-Situ	-	-	-	-	-	-	-	7,460
TT 1 @ 8	8/1/2023	8	D	In-Situ	-	-	-	-	-	-	-	3,520
TT 1 @ 10	8/1/2023	10	D	In-Situ	-	-	-	-	-	-	-	528
TT 2 @ 4	8/1/2023	4	D	Excavated	-	-	-	-	-	-	-	11,700
TT 2 @ 6	8/1/2023	6	D	In-Situ	-	-	-	-	-	-	-	9,600
TT 2 @ 8	8/1/2023	8	D	In-Situ	-	-	-	-	-	-	-	1,660
TT 2 @ 10	8/1/2023	10	D	In-Situ	-	-	-	-	-	-	-	64.0
TT 3 @ 4	8/1/2023	4	D	Excavated	-	-	-	-	-	-	-	18,800
TT 3 @ 6	8/1/2023	6	D	In-Situ	-	-	-	-	-	-	-	3,040
TT 3 @ 8	8/1/2023	8	D	In-Situ	-	-	-	-	-	-	-	3,600
TT 3 @ 10	8/1/2023	10	D	In-Situ	-	-	-	-	-	-	-	4,200
TT 3 @ 12	8/1/2023	12	D	In-Situ	-	-	-	-	-	-	-	192
TT 4 @ 4	8/1/2023	4	D	In-Situ	-	-	-	-	-	-	-	80.0
NW 1	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 2	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NW 3	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
NW 4	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW 5	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 6	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW 7	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 8	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NW 9	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 10	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 11	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 12	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW 13	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW 14	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 15	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW 16	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 17	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 18	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
NW 19	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 20	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 21	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 22	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 23	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
NW 24	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
NW 25	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 26	7/13/2023	0-4	C	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.

Red Border with Shading: Highest observed concentration.

A - Assessment F - Backfill
D - Delineation B - Background
C - Confirmation O - Other
R - Deferral

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Apollo Chile Verde Water Transfer Line NMOCD Ref. #: nAPP2315849467												
NMOCD Closure Criteria					10	50	N/A	N/A	1,000	N/A	2,500	10,000
NMOCD Reclamation Standard					10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Type	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)
NW 27	7/13/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NW 28	7/13/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NW 29	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 30	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NW 31	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 32	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 33	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW 34	7/20/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NW 35	7/20/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW 36	7/20/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 37	7/20/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW 38	7/20/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 39	7/20/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 40	7/20/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW 41	7/21/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 42	7/21/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 43	7/25/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NW 44	7/25/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
NW 45	7/25/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
NW 46	7/27/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW 47	7/27/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 48	7/27/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NW 49	7/27/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
NW 50	7/27/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
NW 51	7/27/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW 52	7/28/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
EW 1	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EW 2	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW 3	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 4	7/13/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 5	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW 6	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 7	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW 8	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
EW 9	7/20/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
EW 10	7/20/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 11	7/20/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 12	7/27/2023	0-4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,060
EW 12 B	8/7/2023	0-4	C	Excavated	-	-	-	-	-	-	-	128
EW 12 B	8/22/2023	0-4	C	Excavated	-	-	-	-	-	-	-	1,520

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

A - Assessment F - Backfill
D - Delineation B - Background
C - Confirmation O - Other
R - Deferral

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Apollo Chile Verde Water Transfer Line NMOCD Ref. #: nAPP2315849467												
NMOCD Closure Criteria					10	50	N/A	N/A	1,000	N/A	2,500	10,000
NMOCD Reclamation Standard					10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Type	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)
EW 12 C	8/30/2023	0-4	C	In-Situ	-	-	-	-	-	-	-	128
EW 12 D	6/18/2025	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EW 13	7/28/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
EW 14	7/28/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
SW 1	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
SW 2	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW 3	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
SW 4	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
SW 5	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 6	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 7	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW 8	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 9	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW 10	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW 11	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 12	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SW 13	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 14	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW 15	7/7/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 16	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
SW 17	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 18	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
SW 19	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 20	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 21	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 22	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW 23	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
SW 24	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SW 25	7/10/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 26	7/13/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SW 27	7/13/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW 28	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 29	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 30	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW 31	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW 32	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 33	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
SW 34	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW 35	7/20/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW 36	7/20/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

A - Assessment F - Backfill
D - Delineation B - Background
C - Confirmation O - Other
R - Deferral

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Apollo Chile Verde Water Transfer Line NMOCD Ref. #: nAPP2315849467												
NMOCD Closure Criteria					10	50	N/A	N/A	1,000	N/A	2,500	10,000
NMOCD Reclamation Standard					10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Type	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)
SW 37	7/20/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 38	7/21/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW 39	7/20/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 40	7/25/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW 41	7/25/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW 42	7/25/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 43	7/27/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW 44	7/27/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SW 45	7/27/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SW 46	7/27/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
SW 47	7/27/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
SW 48	7/27/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
SW 49	7/28/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SW 50	7/28/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
WW 1	7/13/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW 2	7/13/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 3	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 4	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 5	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 6	7/17/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 7	7/20/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 8	7/21/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
WW 9	7/21/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 10	7/21/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WW 11	7/25/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WW 12	7/25/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 13	7/25/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 14	7/25/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW 15	7/27/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
WW 16	7/28/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 17	7/28/2023	0-4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FT 1 @ 4	8/17/2023	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	15,400
FT 1 @ 5'	4/1/2025	5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,120
FT 1 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,220
FT 2 @ 4	8/17/2023	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,920
FT 3 @ 4	8/17/2023	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	18,000
FT 3 @ 5'	4/1/2025	5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,800
FT 3 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,200
FT 4 @ 4	8/17/2023	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,520
FT 5 @ 4	8/17/2023	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	15,200

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

A - Assessment F - Backfill
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R - Deferral

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Apollo Chile Verde Water Transfer Line NMOCD Ref. #: nAPP2315849467												
NMOCD Closure Criteria					10	50	N/A	N/A	1,000	N/A	2,500	10,000
NMOCD Reclamation Standard					10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Type	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)
FT 5 @ 5'	4/1/2025	5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FT 5 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
FT 6 @ 4	8/17/2023	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	14,400
FT 6 @ 5'	4/1/2025	5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,320
FT 6 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,120
FT 7 @ 4	8/17/2023	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	19,600
FT 7 @ 5'	4/1/2025	5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FT 7 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	848
FT 8 @ 4	8/17/2023	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,800
FT 9 @ 4	8/17/2023	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,840
FT 10 @ 4	8/17/2023	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	20,400
FT 10 @ 5'	4/1/2025	5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,000
FT 10 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,600
FT 11 @ 4	8/17/2023	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	28,400
FT 11 @ 5'	4/1/2025	5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FT 11 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,800
FT 12 @ 4	8/17/2023	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,040
FT 13 @ 4	8/17/2023	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,960
FT 14 @ 4	8/17/2023	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	38,800
FT 14 @ 5'	4/1/2025	5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FT 14 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FT 15 @ 4	8/17/2023	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	31,600
FT 15 @ 5'	4/1/2025	5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FT 15 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FT 16 @ 4	8/17/2023	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	44,000
FT 16 @ 5'	4/1/2025	5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FT 16 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FT 17 @ 4	8/17/2023	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	37,600
FT 17 @ 5'	4/1/2025	5	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FT 17 @ 6'	4/1/2025	6	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FT 18 @ 4	8/17/2023	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FT 19 @ 4	8/17/2023	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FT 20 @ 4	8/17/2023	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 1 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 2 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 3 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,260
FL 4 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,840
FL 5 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,410
FL 6 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,720
FL 7 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,560

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

A - Assessment F - Backfill
D - Delineation B - Background
C - Confirmation O - Other
R - Deferral

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Apollo Chile Verde Water Transfer Line NMOCD Ref. #: nAPP2315849467												
NMOCD Closure Criteria					10	50	N/A	N/A	1,000	N/A	2,500	10,000
NMOCD Reclamation Standard					10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Type	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 8 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,480
FL 9 @ 5'	4/2/2025	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 10 @ 5'	4/2/2025	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 11 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 12 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 13 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	720
FL 14 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 15 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 16 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,220
FL 17 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,950
FL 18 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 19 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,230
FL 20 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	944
FL 21 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 22 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 23 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,880
FL 24 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,600
FL 25 @ 5'	4/2/2025	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 26 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 27 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 28 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 29 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 30 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,870
FL 31 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 32 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 33 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 34 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 35 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	944
FL 36 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 37 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	816
FL 38 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	720
FL 39 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 40 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 41 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,440
FL 42 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 43 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,140
FL 44 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FL 45 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,600
FL 46 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	992
FL 47 @ 4'	4/2/2025	4	C	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.

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Red Border with Shading: Highest observed concentration.

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Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Apollo Chile Verde Water Transfer Line NMOCD Ref. #: nAPP2315849467												
NMOCD Closure Criteria					10	50	N/A	N/A	1,000	N/A	2,500	10,000
NMOCD Reclamation Standard					10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Type	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 48 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 49 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 50 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	896
FL 51 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 52 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,920
FL 53 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 54 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	800
FL 55 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 56 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 57 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 58 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,060
FL 59 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,400
FL 60 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,600
FL 61 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,350
FL 62 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,160
FL 63 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 64 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 65 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 66 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 67 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 68 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 69 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 70 @ 4'	4/2/2025	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,600
FL 70 @ 5'	4/9/2025	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,560
FL 71 @ 4'	4/2/2025	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	13,600
FL 71 @ 5'	4/9/2025	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,280
FL 72 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,720
FL 73 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 74 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,280
FL 75 @ 4'	4/2/2025	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,200
FL 75 @ 5'	4/9/2025	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,680
FL 76 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FL 77 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,440
FL 78 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,360
FL 79 @ 4'	4/2/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
FL 80 @ 4'	4/2/2025	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,400
FL 80 @ 5'	4/9/2025	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,720
FL 81 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 82 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 83 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,760

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

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Red Border with Shading: Highest observed concentration.

A - Assessment F - Backfill
D - Delineation B - Background
C - Confirmation O - Other
R - Deferral

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Apollo Chile Verde Water Transfer Line NMOCD Ref. #: nAPP2315849467												
NMOCD Closure Criteria					10	50	N/A	N/A	1,000	N/A	2,500	10,000
NMOCD Reclamation Standard					10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Type	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 84 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,330
FL 85 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 86 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 87 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 88 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 89 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 90 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 91 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 92 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 93 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,580
FL 94 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 95 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 96 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 97 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 98 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 99 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,240
FL 100 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 101 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 102 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 103 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 104 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 105 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 106 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 107 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 108 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 109 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 110 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 111 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 112 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 113 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 114 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 115 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 116 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 117 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 118 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 119 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 120 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 121 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 122 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 123 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

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

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Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

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Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Apollo Chile Verde Water Transfer Line NMOCD Ref. #: nAPP2315849467												
NMOCD Closure Criteria					10	50	N/A	N/A	1,000	N/A	2,500	10,000
NMOCD Reclamation Standard					10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Type	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 124 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 125 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL 126 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 127 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	656
FL 128 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,440
FL 129 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	880
FL 130 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
FL 131 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FL 132 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 133 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 134 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 135 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 136 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 137 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,010
FL 138 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,220
FL 139 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,660
FL 140 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,840
FL 141 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	624
FL 142 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
FL 143 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,920
FL 144 @ 4'	4/4/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 145 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,840
FL 146 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,520
FL 147 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,010
FL 148 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 149 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,810
FL 150 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,080
FL 151 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,160
FL 152 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,200
FL 153 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,140
FL 154 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 155 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 156 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,570
FL 157 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,330
FL 158 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,070
FL 159 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,490
FL 160 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,720
FL 161 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 162 @ 4'	4/3/2025	4	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	11,300
FL 162 @ 5'	4/9/2025	5	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	768

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

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NMOCD Reclamation Standard					10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Type	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 163 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 164 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 165 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 166 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,600
FL 167 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 168 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 169 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,360
FL 170 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 171 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 172 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 173 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 173	4/21/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 174 @ 4'	4/3/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 174	4/21/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 175	4/21/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 176	4/21/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 177	4/21/2025	4	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL 178	4/21/2025	4	C	In-Situ	<0.050	<0.300	<10.0	10.9	10.9	<10.0	10.9	240
Backfill	4/21/2025	N/A	F	Backfill	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0

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

Bold: NMOCD Closure Criteria exceedance.

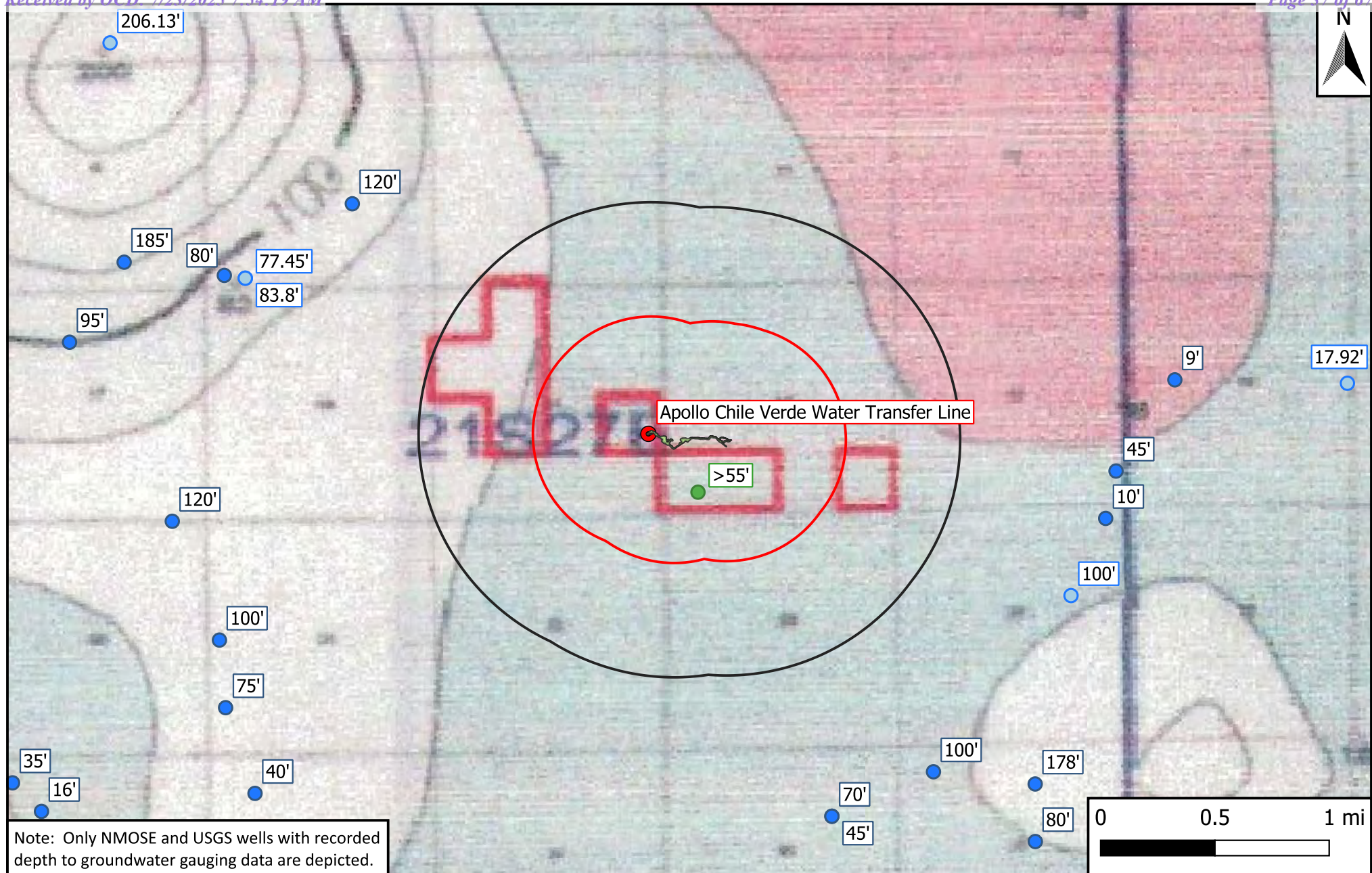
Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

A - Assessment F - Backfill
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Appendix A

Depth to Groundwater Information



Legend

- Site Location
- Well - Exploratory
- Well - NMOSE
- Well - USGS
- Affected Area
- 0.5-Mile Radius
- 1-Mile Radius

Figure 5

Inferred Depth to Groundwater Map
 Mewbourne Oil Company
 Apollo Chile Verde Water Transfer Line
 GPS: 32.4780968, -104.1706733
 Eddy County, New Mexico



Drafted: bja

Checked: rlc

Date: 7/14/25

Soil Boring/Temporary Monitor Well BH-1

Company: Mewbourne Oil Company Site: Apollo Chile Verde Water Transfer Line NMOCD Reference #: nAPP2315849467 Location: Eddy Co., NM PLSS: U/L "J", Sec. 15, T21S, R27E			Well/Borehole ID: BH-1 Coordinates (NAD 83): 32.474370,-104.166992 Drilling Date: 2/28/2024 Depth of Boring (ft): 55 Depth to Groundwater (ft): >55 Plugging Date: 3/4/2024			Drilling Company: H&R Enterprises, LLC Driller: Jim Hawley Drilling Method: Air Rotary Logged By: Jim Hawley Drafted By: Ben J. Arguijo Draft Date: 4/3/2024		
Completion: N/A			Casing: 2" PVC			Screen: 0.020" Slotted		
Comments: N/A								
Depth (ft)	Groundwater	Lithology	Material Description	Petroleum Odor	Petroleum Stain	PID Reading	Well Construction	
0			Caliche - 100%	N	N	-		Open Hole, No Annular Fill
5				N	N	-		
10				N	N	-		
15			Sand 20% - Cobble 50%	N	N	-		
20				N	N	-		
25				N	N	-		
30			Sand 30% - Clay 70%	N	N	-		
35				N	N	-		
40				N	N	-		
45			Fine Sand 15% - Clay 85%	N	N	-		
50				N	N	-		
55				N	N	-		
60			Notes: • Lines between material types represent approximate boundaries. Actual transitions may be gradual. • The exploratory soil boring was left open for over 72 hours. No indications of inflow and/or accumulation of water were noted during the advancement of the soil boring or prior to plugging and abandonment.					

Disclaimer This bore log is intended for environmental not geotechnical purposes.



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	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_00370	C	CUB	ED	4	4	15	21S	27E		577874	3593350*	387			
C_00466	C	CUB	ED	3	3	1	14	21S	27E	578173	3594066*	413	538		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count:2

UTMNAD83 Radius Search (in meters):

Easting (X): 577926.29

Northing (Y): 3593733.97

Radius: 804.67

*UTM location was derived from PLSS - see Help

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

WATER COLUMN/ AVERAGE DEPTH TO
WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 00370	4	4	15	21S	27E	577874	3593350*	

Driller License:

Driller Company:

Driller Name: WHEELER CASS

Drill Start Date: 07/22/1940

Drill Finish Date: 02/03/1941

Plug Date:

Log File Date: 07/01/1958

PCW Rev Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

Depth Water:

*UTM location was derived from PLSS - see Help

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

5/22/23 8:51 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Transaction Summary

CLOSE Closed File

Transaction Number: 465098 **Transaction Desc:** RENUM O-2-E-35 **File Date:** 09/14/1956

Primary Status: CLS Closed File

Secondary Status: CLS Closed File

Person Assigned: *****

Applicant: R.S. MAGNUDER

Events

Date	Type	Description	Comment	Processed By
09/14/1956	APP	Application Received	*	*****
09/14/1956	FTN	Finalize non-published Trans.		*****
08/09/2010	QAT	Quality Assurance Completed	SQ2	*****
09/04/2015	QAT	Quality Assurance Completed	IMAGE	*****

Change To:

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
C 00370	0	0	0	CLS CLOSED FILE

**Place of Use

Q	Q	Q	Q	Sec	Tws	Rng	Acres	Diversion	Consumptive	Use	Priority	Status	Other	Loc	Desc
256	64	16	4				0	0	0	CLS		CLS	OIL WELL - NO		PLACE OF USE

Remarks

THIS TRN HAS BEEN ENTERED TO CLOSE THE FILE. C-370 WAS RENUM O-2-E-35 (OIL WELL). WELL LOG (POD INFO ENTERED IN DB) WAS THE ONLY DOC FOUND (FILE JACKET WAS EMPTY - NOTE ON OUTSIDE IS ONLY INDICATION C-370 WAS RENUMBERED - SEE IMAGE).

ABSTRACTOR NOTE: FILE DATE TAKEN FROM LETTER ASSOC'D W/ OTHER C-FILES THAT WERE RENUM TO O-2-E#'S (CAN VIEW IMAGE OF LETTER IN C-341).

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.

5/22/23 8:55 AM

TRANSACTION
SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 00466	3	3	1	14	21S	27E	578173	3594066*

Driller License:

Driller Company:

Driller Name: ROBERT W. ATHA

Drill Start Date: 07/27/1953

Drill Finish Date: 08/02/1953

Plug Date:

Log File Date: 07/08/1958

PCW Rev Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 10.00

Depth Well: 538 feet

Depth Water:

*UTM location was derived from PLSS - see Help

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

5/22/23 8:51 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Transaction Summary

CLOSE Closed File

Transaction Number: 465169 **Transaction Desc:** RENUM O-2-E-45 **File Date:** 09/14/1956

Primary Status: CLS Closed File

Secondary Status: CLS Closed File

Person Assigned: *****

Applicant: ROBERT W. ATHA

Applicant: EVERETT D. BUGETT

x

Events

Date	Type	Description	Comment	Processed By
09/14/1956	APP	Application Received	*	*****
09/14/1956	FTN	Finalize non-published Trans.		*****
08/09/2010	QAT	Quality Assurance Completed	SQ2	*****
09/10/2015	QAT	Quality Assurance Completed	IMAGE	*****

x

Change To:

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
C 00466	0	0	0	CLS CLOSED FILE

**Place of Use

Q	Q	Q	Q	Sec	Tws	Rng	Acres	Diversion	Consumptive	Use	Priority	Status	Other Loc Desc
256	64	16	4				0	0	0	CLS		CLS	OIL WELL - NO PLACE OF USE

x

Remarks

THIS TRN HAS BEEN ENTERED TO CLOSE THE FILE. C-466 WAS RENUM O-2-E-45 (OIL WELL). WELL LOG (POD INFO ENTERED IN DB) WAS THE ONLY DOC FOUND (FILE JACKET WAS EMPTY - NOTE ON OUTSIDE IS ONLY INDICATION C-466 WAS RENUMBERED - SEE IMAGE).

ABSTRACTOR NOTE: FILE DATE TAKEN FROM LETTER ASSOC'D W/ OTHER C-FILES THAT WERE RENUM TO O-2-E#'S (CAN VIEW IMAGE OF LETTER IN C-341).

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SUMMARY



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Geographic Area:

United States

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 322917104120101

Minimum number of levels = 1

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

USGS 322917104120101 21S.27E.09.33433

Eddy County, New Mexico

Latitude 32°29'17", Longitude 104°12'01" NAD27

Land-surface elevation 3,228 feet above NAVD88

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

This well is completed in the Rustler Formation (312RSLR) 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
1950-01-25		D	72019	81.44			1	Z			A
1955-10-27		D	72019	83.80			P	Z			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
Status	P	Pumping
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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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 322917104120102

Minimum number of levels = 1

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USGS 322917104120102 21S.27E.09.33433 A

Eddy County, New Mexico

Latitude 32°29'17", Longitude 104°12'01" NAD27

Land-surface elevation 3,228 feet above NAVD88

The depth of the well is 92 feet below land surface.

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

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

[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
1978-01-27		D	72019	75.69			P	Z			A
1983-01-06		D	72019	71.91			1	Z			A
1987-10-16		D	72019	76.46			1	Z			A
1988-03-18		D	72019	76.91			1	Z			A

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1993-01-13		D	72019	82.42			1	S			A
1998-02-05		D	72019	77.45			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
Status	P	Pumping
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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i Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 322755104081401

Minimum number of levels = 1

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USGS 322755104081401 21S.27E.24.23243

Eddy County, New Mexico

Latitude 32°28'03", Longitude 104°08'19" NAD27

Land-surface elevation 3,130 feet above NGVD29

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

This well is completed in the Rustler Formation (312RSLR) 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
1975-04-09		D	72019	56.00			1	O	USGS	S	A
1975-06-05		D	72019	100.00			1	O	USGS	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	O	Observed.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Appendix B

Field Data & Soil Profile Logs



Sample Log

Date: 6/7/2023

Project: Apollo Chile Verde Water Transfer Line

Project Number: 18228 Latitude: 32.4780968 Longitude: -104.1706733

Sample ID	PID/Odor	Chloride Conc.	GPS
SP1 @ Surface		25,240	
SP1 @ 1'		2,708	
SP1 @ 2'		5,264	
SP1 @ 3'		4,144	
SP1 @ 4'		3,980	
SP1 @ 5'		6,656	
SP1 @ 6'		2,708	
SP1 @ 7'		2,708	
SP1 @ 8'		1,948	
SP1 @ 9'		2,588	
SP1 @ 10'		500	
SP1 @ 11'		450	
SP2 @ Surface		24,320	
SP2 @ 1'		7,784	
SP2 @ 2'		6,156	
SP2 @ 3'		6,156	
SP2 @ 4'		6,156	
SP2 @ 5'		7,784	
SP2 @ 6'		5,696	
SP2 @ 7'		4,868	
SP2 @ 8'		1,656	
SP2 @ 9'		552	
SP3 @ Surface		25,240	
SP3 @ 1'		11,740	
SP3 @ 2'		4,868	
SP3 @ 3'		5,696	
SP3 @ 4'		4,144	
SP3 @ 5'		8,428	
SP3 @ 6'		5,696	
SP3 @ 7'		5,696	
SP3 @ 8'		364	
SP4 @ Surface		21,200	
SP4 @ 1'		6,156	
SP4 @ 2'		2,480	
SP4 @ 3'		580	
SP4 @ 4'		416	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: 6.7.23

Project: Chili Verde 23/24 Fed Com 716H

Project Number: 18228

Latitude: 32.477651

Longitude: -104.167798

Sample ID	PID/Odor	Chloride Conc.	GPS
SP1@SVR HS 9.0	NoNe	25,240	
SP1@1 HS 4.0	—	2,708	
SP1@2 HS 5.6	—	5,264	
SP1@3 HS 5.0	—	4,144	
SP1@4 HS 4.8	—	3,980	
SP1@5 HS 6.2	—	6,656	
SP1@6 HS 4.0	—	2,708	
SP1@7 HS 4.0	—	2,708	
SP1@8 7.2	—	14,48	
SP1@9 8.0	—	2,588	
SP1@10 3.6	—	500	
SP1@11 3.4	—	452	
SP2@SVR HS 9.0	—	25,240	
SP2@1 HS 4.6	—	7,784	
SP2@2 HS 6.0	—	6,156	
SP2@3 HS 6.0	—	6,156	
SP2@4 HS 6.0	—	6,156	
SP2@5 HS 6.6	—	7,784	
SP2@6 HS 5.8	—	5,696	
SP2@7 HS 5.4	—	4,868	
SP2@8 HS 3.0	—	1,656	
SP2@9 3.8	—	552	
SP3@SVR HS 9.0	—	25,240	
SP3@1 HS 7.6	—	11,740	
SP3@2 HS 5.4	—	4,868	
SP3@3 HS 5.8	—	5,696	
SP3@4 HS 5.0	—	4,144	
SP3@5 HS 6.8	—	8,428	
SP3@6 HS 5.4	—	5,696	
SP3@7 HS 5.4	—	5,696	
SP3@8 3.0	—	364	
SP4@SVR HS 8.6	—	14,292	
SP4@1 HS 6.0	—	6,156	
SP4@2 HS 4.4	—	3,228	
SP4@3 3.2	—	396	
SP4@4 2.4	—	252	

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: Chili Verde 23/24 Fed Com 716H

Project Number: 18228 Latitude: 32.477651 Longitude: -104.167798

Sample ID	PID/Odor	Chloride Conc.	GPS
SPS @ Sur HS 6-6	—	7784	
SPS @ 1 HS 5.6	—	5264	
SPS @ 2 2.6	—	284	
SPS @ 3 3.4	—	452	
SPS @ 4 3.0	—	364	
SPS @ 5 2.2	—	216	
NH1 @ Sur 3.0	—	364	
NH1 @ 1 2.4	—	248	
SH1 @ Sur 3.2	—	408	
SH1 @ 1 2.6	—	284	
EH1 @ Sur 3.0	—	364	
EH1 @ 1 2.8	—	324	
NH2 @ Sur 2.8	—	324	
NH2 @ 1 2.6	—	284	
SH2 @ Sur 3.2	—	408	
SH2 @ 1 2.8	—	324	
NH3 @ Sur 2.8	—	324	
NH3 @ 1 2.2	—	216	
SH3 @ Sur 3.4	—	452	
SH3 @ 1 3.0	—	364	
NH4 @ Sur 3.0	—	364	
NH4 @ 1 2.6	—	284	
SH4 @ Sur 2.6	—	284	
SH4 @ 1 2.2	—	216	
NH5 @ 1 3.4	—	452	
SH5 @ 1 3.2	—	408	
SH5 @ 1 3.0	—	364	
SH5 @ 1 2.8	—	324	
WH1 @ 1 2.2	—	216	
WH1 @ 1 2.0	—	184	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Apollo Chile Verde Water Transfer Line

Project Number: 18228 Latitude: 32.4780968 Longitude: -104.1706733

Sample ID	PID/Odor	Chloride Conc.	GPS
NW1	3.2	None	412
SW1	3.6	—	500
EW1	3.4	—	452
NW2	3.2	—	412
SW2	3.2	—	412
NW3	3.4	—	452
SW3	3.2	—	412
NW4	3.6	—	500
SW4	3.0	—	372
SW5	3.2	—	412
NW5	3.2	—	412
SW6	3.0	—	372
NW6	3.6	—	500
SW7	2.8	—	324
NW7	3.0	—	500
SW8	3.8	—	552
EW2	3.6	—	500
NW8	3.0	—	372
SW9	2.8	—	324
NW9	3.8	—	552
SW10	2.8	—	324
SW11	2.6	—	284
NW10	2.8	—	324
NW11	3.8	—	552
NW12	3.8	—	552
SW12	3.2	—	412
EW3	2.8	—	324
SW13	6.0	—	
NW13	6.2	—	
SW13	3.6	—	500
NW13	3.8	—	552
SW14	2.0	—	142
NW14	3.0	—	372
SW15	3.6	—	500
NW15	3.8	—	552
NW16	2.8	—	324

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

Project: Chile Verde 23/24 fed Corn 716 H Date: _____
 Project Number: 18228 Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
SW16	3.8	552	
NW17	3.0	362	
SW17	2.8	324	
NW18	3.4	452	
SW18	3.2	408	
NW19	3.4	452	
SW19	3.0	362	
NW20	3.4	452	
SW20	3.0	362	
NW21	3.2	408	
SW21	3.0	362	
NW22	2.2	216	
SW22	2.4	248	
NW23	3.2	408	
SW23	3.4	452	
NW24	3.0	362	
SW24	2.6	284	
SW25	3.0	362	
NW25	3.0	362	
WW1	3.2	408	
NW26	5.0	860	
NW26	4.6	736	
NW27	8.0	2,512	
NW27	4.6	736	
NW27	5.0	860	
NW27	3.2	408	
EW4	2.2	216	
WW2	3.2	408	
SW26	5.0	860	
SW26	3.8	552	
NW28	5.2		
NW28	3.8	552	
SW27	3.2		
NW28	3.0		

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

NW26

NW27 8.0 2588
 NW27 4.6 776
 NW27 5.0 908



Sample Log

mustard lube

159.89

6/14/25

7-14-23

Project:

Chile Verde 23/24 Fed Com 716H

Date:

Project Number:

10228

Latitude:

Longitude:

Sample ID	PID/Odor	Chloride Conc.	GPS
SW28	3.0	356	
NW29	7.11	252	
SW29	2.2	220	
NW30	3.0	356	
SW30	2.4	252	
NW31	2.4	252	
SW31	2.8	320	
NW32	2.6	284	
EW5	3.4	436	
WW3	3.6	480	
EW6	2.2	220	
WW4	2.6	284	
EW7	2.4	252	
WW5	2.2	220	
SW32	2.4	252	
SW33	3.4	436	
SW34	3.2	396	
EW8	2.4	252	
WW6	2.4	252	
NW33	2.8	320	
NW34	3.6	340	
EW9	2.2	220	
SW35	3.6	340	
NW35	3.4	436	
EW10	2.6	284	
EW11	2.8	320	
NW36	2.6	284	
SW36	2.4	252	
WW7	2.0	192	
NW37	2.0	192	
SW37	2.0	192	
NW38	1.8	164	
SW38	2.2	220	
NW39	3.0	356	
NW40	2.2	220	
SW39	1.8	164	

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 #1

Stockpile = Stockpile #1

GPS Sample Points, Center of Corr



Sample Log

Chile Verde

Date: _____

Project: _____

Project Number: _____

Latitude: _____

Longitude: _____

SW38	Sample ID	PID/Odor	Chloride Conc.	GPS
WW8	3.2	—	396	
NW41	1.8	—	164	
WW9	1.6	—	134	
NW42	2.2	—	220	
WW10	7.6	—	2160	
WW10	2.4	—	252	
WW11	2.2	—	220	
SW40	1.8	—	164	
WW12	1.4	—	112	
WW13	1.4	—	112	
WW14	3.6	—	480	
NW43	2.0	—	192	
SW41	2.2	—	220	
NW44	2.0	—	192	
SW42	2.0	—	192	
NW45	2.6	—	284	
NW46	2.2	—	220	
SW43	2.0	—	192	
NW47	1.6	—	134	
SW44	2.8	—	320	
SW45	2.0	—	192	
NW48	2.2	✓	220	
SW46	2.2	✓	220	
NW49	2.6	—	284	
SW47	3.2	—	196	
NW50	2.6	—	284	
SW48	2.0	—	192	
EW12	3.0	—	356	
NW50	3.2	✓	196	
WW15	2.8	—	284	
NW52	3.0	—	356	
SW49	2.0	—	192	
EW13	3.0	—	356	
WW17	2.0	—	192	
FL E of line	2.4	—	252	
FL W of line	2.0	—	192	

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

Stockpile = Stockpile #

GPS Sample Points, Center of



Sample Log

Date:

Project: ~~Redwood~~ 12128

Project Number: ~~17737~~

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



Sample Log

Date: _____

Project: Apollo Chile Verde Water Transfer Line

Project Number: 18228 Latitude: 32.4780968 Longitude: -104.1706733

Sample ID	PID/Odor	Chloride Conc.	GPS
FT105' 4.0		656	
FT105' FT106' 5.0		976	
FT1305' 5.0 H		4428	
FT505' 1.0		<116	
FT506' 3.0		412	
FT306' 5.0 H		4428	
FT605' 8.0		72564	
FT606' 4.0 (H)		2892	
FT705' 2.2		260	
FT706' 4.0		712	
FT1005' 6.0 (H)		6556	
FT1006' 4.4 (H)		3452	
FT1105' 3.0		412	
FT1106' 6.0		1416	
FT1405' 4.0		<116	
FT1406' <1.0		<116	
FT1505' 1.4		116	
FT1506' 1.4		116	
FT1605' <1.0		<116	
FT1606' <1.0		<116	
FT1705' 1.0		<116	
FT1706' 1.4		116	
FL104' 1.4	—	116	
FL204' 1.4	—	116	
FL304' 4.8	—	896	
FL404' 5.0	—	968	
FL504' 5.2	—	1044	
FL604' 5.0 (H)	—	4428	
FL704' 4.4 (H)	—	3356	
FL804' 5.0 (H)	—	4428	
FL904' 6.2 (H)	—	6372	
FL1004' 7.0 (H)	—	9600	
FL1104' <1.0	✓	<116	
FL1204' <1.0		<116	
FL1304' 3.0		412	
FL1404' 1.4		116	

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: Apollo Chile Verde Water Transfer Line

Project Number: 18228 Latitude: 32.4780968 Longitude: -104.1706733

Sample ID	PID/Odor	Chloride Conc.	GPS
FL-15 @ 4'	1.0	< 116	
FL-16 @ 4'	6.0	1404	
FL-17 @ 4'	6.2	1508	
FL-18 @ 4'	1.0	< 116	
FL-19 @ 4'	4.8	896	
FL-20 @ 4'	4.6	832	
FL-21 @ 4'	1.4	116	
FL-22 @ 4'	3.4	600	
FL-23 @ 4'	4.0 (H)	2836	
FL-24 @ 4'	4.4 (H)	3356	
FL-25 @ 4'	6.8 (H)	8824	
FL-26 @ 4'	1.0	< 116	
FL-27 @ 4'	1.4	116	
FL-28 @ 4'	< 1.0	< 116	
FL-29 @ 4'	1.8	196	
FL-30 @ 4'	5.8	1304	
FL-31 @ 4'	< 1.0	< 116	
FL-32 @ 4'	< 1.0	< 116	
FL-33 @ 4'	1.0	< 116	
FL-34 @ 4'	1.8	196	
FL-35 @ 4'	4.0	652	
FL-36 @ 4'	< 1.0	116	
FL-37 @ 4'	4.4	768	
FL-38 @ 4'	4.2	708	
FL-39 @ 4'	< 1.0	116	
FL-40 @ 4'	1.2	116	
FL-41 @ 4'	5.6 (H)	5436	
FL-42 @ 4'	4.0	652	
FL-43 @ 4'	3.0	412	
FL-44 @ 4'	5.0	968	
FL-45 @ 4'	5.0	968	
FL-46 @ 4'	< 1.0	< 116	
FL-47 @ 4'	1.4	116	
FL-48 @ 4'	< 1.0	< 116	
FL-49 @ 4'	< 1.0 4.0	< 116	
FL-50 @ 4'	4.0	652	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Apollo Chile Verde Water Transfer Line

Project Number: 18228 Latitude: 32.4780968 Longitude: -104.1706733

Sample ID	PID/Odor	Chloride Conc.	GPS
FL-51 @ 4'	<1.0	<116	
FL-52 @ 4'	5.0 (H)	4.428	
FL-53 @ 4'	2.0	246	
FL-54 @ 4'			
FL-55 @ 4'			
FL-56 @ 4'			
FL-57 @ 4'			
FL-58 @ 4'			
FL-59 @ 4'			
FL-60 @ 4'			
FL-61 @ 4'			
FL-62 @ 4'			
FL-63 @ 4'			
FL-64 @ 4'			
FL-65 @ 4'			
FL-66 @ 4'			
FL-67 @ 4'			
FL-68 @ 4'			
FL-69 @ 4'			
FL-70 @ 4'			
FL-71 @ 4'			
FL-72 @ 4'			
FL-73 @ 4'			
FL-74 @ 4'			
FL-75 @ 4'			
FL-76 @ 4'			
FL-77 @ 4'			
FL-78 @ 4'			
FL-79 @ 4'			
FL-80 @ 4'			
FL-90 @ 5'	-	7064	
FL-91 @ 5'	-	5436	
FL-95 @ 5'	-	5436	
FL-90 @ 5'	-	4384	
FL-162 @ 5'	-	806	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Soil Profile

Date: _____

Project: Apollo Chile Verde Water Transfer Line
Project Number: 18228 Latitude: 32.4780968 Longitude: -104.1706733

Depth (ft. bgs)	Description
1	Sand
2	Sand
3	Sand-caliche
4	Caliche-clay
5	Clay
6	Clay
7	Sand-clay
8	Caliche
9	Caliche-Rock
10	Caliche-Rock
11	Caliche-sand
12	Sand
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	

Appendix C

Photographic Log

Photographic Log



Photo Number: 1	
Photo Direction: Overhead/Bird's Eye	
Coordinates: 32.477686,-104.165391	
Date/Time: 5/20/23, Time Unknown	
Photo Description: Aerial view of the eastern portion of the affected area (outlined in cyan).	

Photo Number: 2	
Photo Direction: Overhead/Bird's Eye	
Coordinates: 32.477570,-104.167615	
Date/Time: 5/20/23, Time Unknown	
Photo Description: Aerial view of the central portion of the affected area (outlined in cyan).	

Photographic Log



Photo Number: 3	
Photo Direction: Overhead/Bird's Eye	
Coordinates: 32.477948,-104.169893	
Date/Time: GPS: 5/20/23, ≈14:00.	
Photo Description: Aerial view of the western portion of the affected area (outlined in cyan).	

Photo Number: 4	
Photo Direction: Northeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 5	
Photo Direction: Northeast	
Photo Description: View of the excavated area.	

Photo Number: 6	
Photo Direction: North	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 7	
Photo Direction: East	
Photo Description: View of the excavated area.	

Photo Number: 8	
Photo Direction: West	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 9	
Photo Direction: Northeast	
Photo Description: View of the excavated area.	

Photo Number: 10	
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 11	 <p>2023/07/19 07:51 +32.477650,-104.165468</p>
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photo Number: 12	 <p>2023/07/19 07:52 +32.477378,-104.165135</p>
Photo Direction: Northwest	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 13	
Photo Direction: West-Northwest	
Photo Description: View of the excavated area.	

Photo Number: 14	
Photo Direction: West-Northwest	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 15	
Photo Direction: East	
Photo Description: View of the excavated area.	

Photo Number: 16	
Photo Direction: East	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 17	
Photo Direction: Northeast	
Photo Description: View of the excavated area.	

Photo Number: 18	
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log


Photo Number: 19	
Photo Direction: Northwest	
Photo Description: View of the excavated area.	

Photo Number: 20	
Photo Direction: Northeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 21	 <p>Apr 3, 2025 at 8:23:50 AM +32.478112,-104.170533</p>
Photo Direction: East	
Photo Description: View of the excavated area.	

Photo Number: 22	 <p>Apr 3, 2025 at 8:24:09 AM +32.478141,-104.170427</p>
Photo Direction: West-Northwest	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 23	<div><div>Apr 4, 2025 at 1:54:00 PM +32.478281,-104.170425</div></div>
Photo Direction: East	
Photo Description: View of the excavated area.	

Photo Number: 24	<div><div>4/9/25, 8:32 AM +32.477637,-104.169604 NM, Carlsbad</div></div>
Photo Direction: East	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 25	<div>4/28/25, 4:24 PM +32.477693,-104.166030 NM, Carlsbad</div> 
Photo Direction: East	
Photo Description: View of the remediated area following backfill and regrading.	

Photo Number: 26	<div>4/28/25, 4:25 PM +32.477612,-104.167909 NM, Carlsbad</div> 
Photo Direction: Northeast	
Photo Description: View of the remediated area following backfill and regrading.	

Photographic Log



Photo Number: 27	<div>4/28/25, 4:25 PM +32.477775,-104.167274 NM, Carlsbad</div> 
Photo Direction: East	
Photo Description: View of the remediated area following backfill and regrading.	

Photo Number: 28	<div>4/28/25, 4:25 PM +32.477612,-104.167909 NM, Carlsbad</div> 
Photo Direction: West	
Photo Description: View of the remediated area following backfill and regrading.	

Photographic Log



Photo Number: 29	
Photo Direction: North	
Photo Description: View of the remediated area following backfill and regrading.	

Photo Number: 30	
Photo Direction: Northwest	
Photo Description: View of the remediated area following backfill and regrading.	

Photographic Log



Photo Number: 31	
Photo Direction: Northeast	
Photo Description: View of the remediated area following backfill and regrading.	

Photo Number: 32	
Photo Direction: East	
Photo Description: View of the remediated area following backfill and regrading.	

Photographic Log


Photo Number: 33	<div>Network: May 8, 2025 at 7:52:36 AM MDT Local: May 8, 2025 at 7:52:36 AM MDT N 32° 28' 40.341", W 104° 9' 58.511" Carlsbad NM 88220 United States</div> 
Photo Direction: East	
Photo Description: View of the remediated area during seeding event.	

Photo Number: 34	<div>Network: May 8, 2025 at 9:19:09 AM MDT Local: May 8, 2025 at 9:19:09 AM MDT N 32° 28' 37.453", W 104° 10' 7.967" Carlsbad NM 88220 United States</div> 
Photo Direction: Northwest	
Photo Description: View of the remediated area following seeding event.	

Photographic Log



Photo Number: 35	
Photo Direction: Northwest	
Photo Description: View of the remediated area following seeding event.	

Photo Number: 36	
Photo Direction: Southwest	
Coordinates: 32.477851,-104.167884	
Photo Description: View of the remediated area following seeding event.	

Photographic Log


Photo Number: 37	<p>Network: May 8, 2025 at 10:06:37 AM MDT Local: May 8, 2025 at 10:06:37 AM MDT N 32° 28' 37.452", W 104° 10' 8.012" Carlsbad NM 88220 United States</p> 
Photo Direction: Northwest	
Photo Description: View of the remediated area following seeding event.	

Photo Number: 38	<p>Bamert Seed Company Inc.</p> <p>1897 CR 1018 Muleshoe, TX 79347 (800) 262-9892 Permit # TX00905</p> <p>Chile Verde BLM #3 for Shallow Sites - Broadcast Lot/Sales # SO-85926</p> <p>Rate</p> <table border="1"> <thead> <tr> <th>Kind & Variety</th> <th>Pure Seed</th> <th>Germ</th> <th>Dormant</th> <th>Hard Seed</th> <th>Origin</th> </tr> </thead> <tbody> <tr> <td>Bristlegrass Plains, (Setaria vulpiseta)</td> <td>11.75%</td> <td>39.00%</td> <td>55.00%</td> <td>0.00%</td> <td>TX</td> </tr> <tr> <td>Gramma, Sideoals "Vaughn" (Bouteloua curtipendula)</td> <td>55.74%</td> <td>99.00%</td> <td>0.00%</td> <td>0.00%</td> <td>TX</td> </tr> <tr> <td>Green Sprangletop, "Van Horn" (Leptochloa dubia)</td> <td>22.30%</td> <td>82.00%</td> <td>17.00%</td> <td>0.00%</td> <td>TX</td> </tr> </tbody> </table> <p>Purity: 89.79% Inert Matter: 10.21% Other Crop Seed: 0.00% Weed Seed: 0.00%</p> <p>Noxious Weed Seed Per/Lb: None Test Date: 04/2025 Net Wt: 38.35 lbs</p>	Kind & Variety	Pure Seed	Germ	Dormant	Hard Seed	Origin	Bristlegrass Plains, (Setaria vulpiseta)	11.75%	39.00%	55.00%	0.00%	TX	Gramma, Sideoals "Vaughn" (Bouteloua curtipendula)	55.74%	99.00%	0.00%	0.00%	TX	Green Sprangletop, "Van Horn" (Leptochloa dubia)	22.30%	82.00%	17.00%	0.00%	TX
Kind & Variety		Pure Seed	Germ	Dormant	Hard Seed	Origin																			
Bristlegrass Plains, (Setaria vulpiseta)		11.75%	39.00%	55.00%	0.00%	TX																			
Gramma, Sideoals "Vaughn" (Bouteloua curtipendula)	55.74%	99.00%	0.00%	0.00%	TX																				
Green Sprangletop, "Van Horn" (Leptochloa dubia)	22.30%	82.00%	17.00%	0.00%	TX																				
Photo Direction: N/A																									
Photo Description: Seed tag.																									

Appendix D

Laboratory Analytical Reports



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

June 14, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 06/08/23 15:09.

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 1 @ SURF (H232949-01)

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	06/13/2023	ND	2.13	107	2.00	5.48	
Toluene*	<0.050	0.050	06/13/2023	ND	2.18	109	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/13/2023	ND	2.25	113	2.00	5.68	
Total Xylenes*	<0.150	0.150	06/13/2023	ND	6.65	111	6.00	5.70	
Total BTEX	<0.300	0.300	06/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	51200	16.0	06/09/2023	ND	448	112	400	7.41		

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	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	10.1	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 1 @ 10 (H232949-02)

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	06/13/2023	ND	2.13	107	2.00	5.48	
Toluene*	<0.050	0.050	06/13/2023	ND	2.18	109	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/13/2023	ND	2.25	113	2.00	5.68	
Total Xylenes*	<0.150	0.150	06/13/2023	ND	6.65	111	6.00	5.70	
Total BTEX	<0.300	0.300	06/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	06/09/2023	ND	448	112	400	7.41		

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	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 2 @ SURF (H232949-03)

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	06/13/2023	ND	2.13	107	2.00	5.48	
Toluene*	<0.050	0.050	06/13/2023	ND	2.18	109	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/13/2023	ND	2.25	113	2.00	5.68	
Total Xylenes*	<0.150	0.150	06/13/2023	ND	6.65	111	6.00	5.70	
Total BTEX	<0.300	0.300	06/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26000	16.0	06/09/2023	ND	448	112	400	7.41	

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	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	210	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	31.1	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 2 @ 8 (H232949-04)

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	06/13/2023	ND	2.13	107	2.00	5.48		
Toluene*	<0.050	0.050	06/13/2023	ND	2.18	109	2.00	5.28		
Ethylbenzene*	<0.050	0.050	06/13/2023	ND	2.25	113	2.00	5.68		
Total Xylenes*	<0.150	0.150	06/13/2023	ND	6.65	111	6.00	5.70		
Total BTEX	<0.300	0.300	06/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	06/09/2023	ND	400	100	400	3.92	QM-07	

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	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 3 @ SURF (H232949-05)

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	06/13/2023	ND	2.13	107	2.00	5.48	
Toluene*	<0.050	0.050	06/13/2023	ND	2.18	109	2.00	5.28	
Ethylbenzene*	<0.050	0.050	06/13/2023	ND	2.25	113	2.00	5.68	
Total Xylenes*	<0.150	0.150	06/13/2023	ND	6.65	111	6.00	5.70	
Total BTEX	<0.300	0.300	06/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	27200	16.0	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	14.5	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 3 @ 8 (H232949-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.38	119	2.00	13.4	
Toluene*	<0.050	0.050	06/09/2023	ND	2.37	119	2.00	13.3	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.34	117	2.00	14.4	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	7.12	119	6.00	13.7	
Total BTEX	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 4 @ SURF (H232949-07)

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	06/10/2023	ND	2.08	104	2.00	0.428	
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260	
Total BTEX	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	22000	16.0	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 4 @ 4 (H232949-08)

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	06/10/2023	ND	2.08	104	2.00	0.428		
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260		
Total BTEX	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

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	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 5 @ SURF (H232949-09)

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	06/10/2023	ND	2.08	104	2.00	0.428		
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260		
Total BTEX	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10000	16.0	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SP 5 @ 3 (H232949-10)

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	06/10/2023	ND	2.08	104	2.00	0.428		
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260		
Total BTEx	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NH 1 @ SURF (H232949-11)

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	06/10/2023	ND	2.08	104	2.00	0.428		
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260		
Total BTEx	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

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	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NH 1 @ 1 (H232949-12)

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	06/10/2023	ND	2.08	104	2.00	0.428	
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260	
Total BTEX	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-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	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NH 2 @ SURF (H232949-13)

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	06/10/2023	ND	2.08	104	2.00	0.428	
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260	
Total BTEX	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-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	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NH 2 @ 1 (H232949-14)

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	06/10/2023	ND	2.08	104	2.00	0.428		
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260		
Total BTEX	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-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	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NH 3 @ SURF (H232949-15)

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	06/10/2023	ND	2.08	104	2.00	0.428	
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260	
Total BTX	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-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	06/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NH 3 @ 1 (H232949-16)

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	06/10/2023	ND	2.08	104	2.00	0.428		
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260		
Total BTEX	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-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	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NH 4 @ SURF (H232949-17)

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	06/10/2023	ND	2.08	104	2.00	0.428	
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260	
Total BTEx	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

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	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NH 4 @ 1 (H232949-18)

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	06/10/2023	ND	2.08	104	2.00	0.428	
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260	
Total BTEX	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-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	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	204	102	200	4.26	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	190	94.9	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NH 5 @ SURF (H232949-19)

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	06/10/2023	ND	2.08	104	2.00	0.428		
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260		
Total BTEX	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

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	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NH 5 @ 1 (H232949-20)

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	06/10/2023	ND	2.08	104	2.00	0.428		
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260		
Total BTEX	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-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	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SH 1 @ SURF (H232949-21)

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	06/10/2023	ND	2.08	104	2.00	0.428	
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260	
Total BTEx	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SH 1 @ 1 (H232949-22)

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	06/10/2023	ND	2.08	104	2.00	0.428	
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260	
Total BTEx	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

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	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SH 2 @ SURF (H232949-23)

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	06/10/2023	ND	2.08	104	2.00	0.428		
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260		
Total BTEX	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-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	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SH 2 @ 1 (H232949-24)

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	06/10/2023	ND	2.08	104	2.00	0.428	
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260	
Total BTEX	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-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	06/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SH 3 @ SURF (H232949-25)

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	06/10/2023	ND	2.08	104	2.00	0.428	
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260	
Total BTEX	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-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	06/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SH 3 @ 1 (H232949-26)

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	06/10/2023	ND	2.08	104	2.00	0.428		
Toluene*	<0.050	0.050	06/10/2023	ND	2.07	103	2.00	0.558		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.13	106	2.00	0.0952		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.32	105	6.00	0.260		
Total BTEx	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

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	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SH 4 @ SURF (H232949-27)

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	06/10/2023	ND	2.08	104	2.00	0.514		
Toluene*	<0.050	0.050	06/10/2023	ND	2.08	104	2.00	0.174		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.18	109	2.00	0.926		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.46	108	6.00	0.754		
Total BTEx	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

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	06/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SH 4 @ 1 (H232949-28)

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	06/10/2023	ND	2.08	104	2.00	0.514		
Toluene*	<0.050	0.050	06/10/2023	ND	2.08	104	2.00	0.174		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.18	109	2.00	0.926		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.46	108	6.00	0.754		
Total BTEX	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-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	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SH 5 @ SURF (H232949-29)

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	06/10/2023	ND	2.08	104	2.00	0.514		
Toluene*	<0.050	0.050	06/10/2023	ND	2.08	104	2.00	0.174		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.18	109	2.00	0.926		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.46	108	6.00	0.754		
Total BTEx	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SH 5 @ 1 (H232949-30)

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	06/10/2023	ND	2.08	104	2.00	0.514		
Toluene*	<0.050	0.050	06/10/2023	ND	2.08	104	2.00	0.174		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.18	109	2.00	0.926		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.46	108	6.00	0.754		
Total BTEx	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

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	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WH 1 @ SURF (H232949-31)

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	06/10/2023	ND	2.08	104	2.00	0.514	
Toluene*	<0.050	0.050	06/10/2023	ND	2.08	104	2.00	0.174	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.18	109	2.00	0.926	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.46	108	6.00	0.754	
Total BTEx	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

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	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WH 1 @ 1 (H232949-32)

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	06/10/2023	ND	2.08	104	2.00	0.514	
Toluene*	<0.050	0.050	06/10/2023	ND	2.08	104	2.00	0.174	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.18	109	2.00	0.926	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.46	108	6.00	0.754	
Total BTEX	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-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	06/09/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EH 1 @ SURF (H232949-33)

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	06/10/2023	ND	2.08	104	2.00	0.514		
Toluene*	<0.050	0.050	06/10/2023	ND	2.08	104	2.00	0.174		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.18	109	2.00	0.926		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.46	108	6.00	0.754		
Total BTEx	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 06/08/2023
 Reported: 06/14/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EH 1 @ 1 (H232949-34)

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	06/10/2023	ND	2.08	104	2.00	0.514		
Toluene*	<0.050	0.050	06/10/2023	ND	2.08	104	2.00	0.174		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.18	109	2.00	0.926		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.46	108	6.00	0.754		
Total BTEx	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

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	06/09/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2023	ND	207	104	200	5.29	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	185	92.5	200	9.44	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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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.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

† Cardinal 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

[illegible]



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Lane Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: P.O. Box 301				Company: Melbourn																									
City: Lovington		State: NM		Zip: 88260		Attn: Jeff Brown																							
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address: 4801 Bus pBlvd																									
Project #: 18228		Project Owner: Melbourn		City: Hobbs																									
Project Name: Chili Verde 23/24 Fed am 716 H				State: NM																Zip: 88240									
Project Location: Rural Carlisbad 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	
H232949				G		1																							
21 SH1@SVR				G		1																							
22 SH1@I				G		1																							
23 SH2@SVR				G		1																							
24 SH2@I				G		1																							
25 SH3@SVR				G		1																							
26 SH3@I				G		1																							
27 SH4@SVR				G		1																							
28 SH4@I				G		1																							
29 SH5@SVR				G		1																							
30 SH5@I				G		1																							

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Relinquished By: 	Date: 6/8/23 Time: 1509	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: *customer added sample date. Skodkiewicz 6/8/23 Please email results to pm@etechenv.com.
Relinquished By:	Date: Time:	Received By:	

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials)
---	--	----------------------------------

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

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST													
Project Manager: Lane Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>													
Address: P.O. Box 301				Company: Mewbourn																	
City: Lovington		State: NM		Zip: 88260		Attn: Jeff Broom															
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address: 4901 Buena Vista																	
Project #: 18228		Project Owner: Mewbourn		City: Hobbs																	
Project Name: Chiti Verde 23/24 Fed com 716 H				State: NM																Zip: 88240	
Project Location: Rural Carls bad				Phone #:																	
Sampler Name: Dominic Casarez				Fax #:																	

FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING							
Lab I.D.	Sample I.D.	GRAB OR (COMP. # CONTAINERS)	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME
H232949													
31	WHI @ SUR	G 1										6-7-23	
32	WHI @ 1	G 1										I	
33	EH1 @ SUR	G 1											
34	EH1 @ 1	G 1											

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature]		Date: 6-8-23		Received By: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: 1509		Date:		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Time:		Received By:		REMARKS:			
Delivered By: (Circle One)		Sample Condition		CHECKED BY:		Xcustomer added sample date. [Signature] 6/8/23			
Sampler - UPS - Bus - Other:		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		[Signature]		Please email results to pm@etechenv.com.			

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

June 19, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: APOLLO CHILI VERDE WATER TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 06/19/23 12:00.

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/19/2023	Sampling Date:	06/19/2023
Reported:	06/19/2023	Sampling Type:	Soil
Project Name:	APOLLO CHILI VERDE WATER TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE (32.4781 - 104.17067)		

Sample ID: SP 1 @ 11' (H233152-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	06/19/2023	ND	416	104	400	7.41	

Sample ID: SP 2 @ 9' (H233152-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	06/19/2023	ND	416	104	400	7.41	

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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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

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

[illegible]

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

June 29, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: APOLLO CHILI VERDE WATER TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 06/20/23 15:07.

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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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 "Coley 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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
29-Jun-23 09:32

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP 1 @ 11.5'	H233201-01	Soil	20-Jun-23 10:29	20-Jun-23 15:07
SP 2 @ 9.5'	H233201-02	Soil	20-Jun-23 10:45	20-Jun-23 15:07

06/29/23 - Client changed the sample ID on -02 (see COC). This is the revised report and will replace the one sent on 06/26/23.

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
29-Jun-23 09:32

SP 1 @ 11.5'
H233201-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3062114	AC	21-Jun-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3062101	MS	22-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062101	MS	22-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062101	MS	22-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062101	MS	22-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062101	MS	22-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134 3062101 MS 22-Jun-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062109	MS	21-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062109	MS	21-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062109	MS	21-Jun-23	8015B	

Surrogate: 1-Chlorooctane 97.8 % 48.2-134 3062109 MS 21-Jun-23 8015B

Surrogate: 1-Chlorooctadecane 100 % 49.1-148 3062109 MS 21-Jun-23 8015B

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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
29-Jun-23 09:32

SP 2 @ 9.5'
H233201-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	3062114	AC	21-Jun-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3062101	MS	22-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3062101	MS	22-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3062101	MS	22-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3062101	MS	22-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3062101	MS	22-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		3062101	MS	22-Jun-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3062109	MS	21-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3062109	MS	21-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3062109	MS	21-Jun-23	8015B	

Surrogate: 1-Chlorooctane			106 %	48.2-134		3062109	MS	21-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			108 %	49.1-148		3062109	MS	21-Jun-23	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
29-Jun-23 09:32

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3062114 - 1:4 DI Water									
Blank (3062114-BLK1)				Prepared & Analyzed: 21-Jun-23					
Chloride	ND	16.0	mg/kg						
LCS (3062114-BS1)				Prepared & Analyzed: 21-Jun-23					
Chloride	432	16.0	mg/kg	400		108	80-120		
LCS Dup (3062114-BSD1)				Prepared & Analyzed: 21-Jun-23					
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20

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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
29-Jun-23 09:32

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3062101 - Volatiles**Blank (3062101-BLK1)**

Prepared: 21-Jun-23 Analyzed: 22-Jun-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0519		mg/kg	0.0500		104	71.5-134			

LCS (3062101-BS1)

Prepared: 21-Jun-23 Analyzed: 22-Jun-23

Benzene	2.17	0.050	mg/kg	2.00		109	82.8-130			
Toluene	2.14	0.050	mg/kg	2.00		107	86-128			
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	85.9-128			
m,p-Xylene	4.29	0.100	mg/kg	4.00		107	89-129			
o-Xylene	2.10	0.050	mg/kg	2.00		105	86.1-125			
Total Xylenes	6.39	0.150	mg/kg	6.00		106	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0511		mg/kg	0.0500		102	71.5-134			

LCS Dup (3062101-BSD1)

Prepared: 21-Jun-23 Analyzed: 22-Jun-23

Benzene	2.11	0.050	mg/kg	2.00		106	82.8-130	2.83	15.8	
Toluene	2.09	0.050	mg/kg	2.00		104	86-128	2.56	15.9	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	85.9-128	2.97	16	
m,p-Xylene	4.14	0.100	mg/kg	4.00		104	89-129	3.40	16.2	
o-Xylene	2.04	0.050	mg/kg	2.00		102	86.1-125	3.01	16.7	
Total Xylenes	6.18	0.150	mg/kg	6.00		103	88.2-128	3.28	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0499		mg/kg	0.0500		99.8	71.5-134			

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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
29-Jun-23 09:32

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3062109 - General Prep - Organics**Blank (3062109-BLK1)**

Prepared & Analyzed: 21-Jun-23

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	46.1		mg/kg	49.6		93.0		48.2-134	
Surrogate: 1-Chlorooctadecane	49.0		mg/kg	50.0		98.0		49.1-148	

LCS (3062109-BS1)

Prepared: 21-Jun-23 Analyzed: 22-Jun-23

GRO C6-C10	172	10.0	mg/kg	200		86.1		78.5-124	
DRO >C10-C28	174	10.0	mg/kg	200		87.1		72.5-126	
Total TPH C6-C28	346	10.0	mg/kg	400		86.6		77.6-123	
Surrogate: 1-Chlorooctane	50.1		mg/kg	49.6		101		48.2-134	
Surrogate: 1-Chlorooctadecane	50.0		mg/kg	50.0		100		49.1-148	

LCS Dup (3062109-BSD1)

Prepared & Analyzed: 21-Jun-23

GRO C6-C10	172	10.0	mg/kg	200		86.0		78.5-124	0.174	17.7
DRO >C10-C28	176	10.0	mg/kg	200		88.0		72.5-126	0.969	21
Total TPH C6-C28	348	10.0	mg/kg	400		87.0		77.6-123	0.402	18.5
Surrogate: 1-Chlorooctane	49.5		mg/kg	49.6		99.9		48.2-134		
Surrogate: 1-Chlorooctadecane	50.8		mg/kg	50.0		102		49.1-148		

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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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



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: LANCE Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: P.O. Box 301				Company: Newbourn																							
City: Lovington		State: NM		Zip: 88260		Attn:																					
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address:																							
Project #: 0000		Project Owner: Newbourn		City:																							
Project Name: APOLLO Chili Verde Water Transfer Line				State:		Zip:																					
Project Location: APOLLO Chili Verde Water Transfer Line				Phone #:																							
Sampler Name: JEFF BROWN / KENNETH REYNOLDS				Fax #:																							
FOR LAB USE ONLY				MATRIX				PRESERV.				SAMPLING															
Lab I.D.		Sample I.D.		(GIRAB OR (COMP. # CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME	
H233201																											
1		SP1 @ 11 1/2		G						✓														6/20/23		10:29	
2		SP2 @ 5 1/2		G						✓														6/20/23		10:45	
		*SP																									
		u/28/23																									
<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: 6/20		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
Kevin Reynolds				Time: 15:07		Shaw Cisneros				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Relinquished By:				Date:		Received By:				REMARKS:																	
										email Lance																	
Delivered By: (Circle One)				6.9°C		Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.													
Sampler - UPS - Bus - Other:				6.3°C		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				DE				*customer requested sample ID depth update. Rodriguez u/28/23													

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 11, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 07/07/23 16:55.

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 1 (H233473-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.10	
Toluene*	<0.050	0.050	07/10/2023	ND	2.09	105	2.00	0.817	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.06	103	2.00	0.836	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.18	103	6.00	0.581	
Total BTX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	07/10/2023	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	07/10/2023	ND	222	111	200	11.3	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	207	103	200	7.74	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 2 (H233473-02)

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	07/10/2023	ND	2.14	107	2.00	1.10	
Toluene*	<0.050	0.050	07/10/2023	ND	2.09	105	2.00	0.817	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.06	103	2.00	0.836	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.18	103	6.00	0.581	
Total BTEX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/10/2023	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	07/10/2023	ND	222	111	200	11.3	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	207	103	200	7.74	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 3 (H233473-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.25	112	2.00	1.32		
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66		
Total BTEx	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

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	07/10/2023	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	07/10/2023	ND	222	111	200	11.3	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	207	103	200	7.74	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 4 (H233473-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.25	112	2.00	1.32	
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66	
Total BTEx	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/10/2023	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	07/10/2023	ND	222	111	200	11.3	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	207	103	200	7.74	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 5 (H233473-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.25	112	2.00	1.32	
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66	
Total BTEX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/10/2023	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	07/10/2023	ND	222	111	200	11.3	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	207	103	200	7.74	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 6 (H233473-06)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.25	112	2.00	1.32	
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66	
Total BTEX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/10/2023	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	07/10/2023	ND	222	111	200	11.3	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	207	103	200	7.74	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 7 (H233473-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.25	112	2.00	1.32	
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66	
Total BTEX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/10/2023	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	07/10/2023	ND	222	111	200	11.3	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	207	103	200	7.74	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 8 (H233473-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.25	112	2.00	1.32	
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66	
Total BTEX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/10/2023	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	07/10/2023	ND	222	111	200	11.3	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	207	103	200	7.74	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 9 (H233473-09)

BTEx 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.25	112	2.00	1.32	
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66	
Total BTEX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/10/2023	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	07/10/2023	ND	222	111	200	11.3	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	207	103	200	7.74	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 10 (H233473-10)

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	07/10/2023	ND	2.25	112	2.00	1.32		
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66		
Total BTEX	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

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	07/10/2023	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	07/10/2023	ND	222	111	200	11.3	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	207	103	200	7.74	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 11 (H233473-11)

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	07/10/2023	ND	2.25	112	2.00	1.32	
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66	
Total BTX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

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	07/10/2023	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	07/10/2023	ND	222	111	200	11.3	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	207	103	200	7.74	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 12 (H233473-12)

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	07/10/2023	ND	2.25	112	2.00	1.32	
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66	
Total BTX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/10/2023	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	07/10/2023	ND	222	111	200	11.3	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	207	103	200	7.74	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 13 (H233473-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.25	112	2.00	1.32		
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66		
Total BTEx	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	07/10/2023	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	07/10/2023	ND	222	111	200	11.3	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	207	103	200	7.74	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 14 (H233473-14)

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	07/10/2023	ND	2.25	112	2.00	1.32	
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66	
Total BTEX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

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	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 15 (H233473-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.25	112	2.00	1.32		
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66		
Total BTEx	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 16 (H233473-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.25	112	2.00	1.32		
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66		
Total BTEX	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-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	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 1 (H233473-17)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.25	112	2.00	1.32	
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66	
Total BTEX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 2 (H233473-18)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.25	112	2.00	1.32		
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66		
Total BTEX	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 3 (H233473-19)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.25	112	2.00	1.32	
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66	
Total BTEX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

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	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 1 (H233473-20)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2023	ND	2.25	112	2.00	1.32		
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66		
Total BTEX	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 2 (H233473-21)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.25	112	2.00	1.32	
Toluene*	<0.050	0.050	07/10/2023	ND	2.26	113	2.00	0.251	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.14	107	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.62	110	6.00	1.66	
Total BTEX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 3 (H233473-22)

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	07/10/2023	ND	2.03	101	2.00	1.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.00	100	2.00	0.135		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.13	107	2.00	0.000984		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.41	107	6.00	0.0210		
Total BTEX	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 4 (H233473-23)

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	07/10/2023	ND	2.03	101	2.00	1.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.00	100	2.00	0.135		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.13	107	2.00	0.000984		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.41	107	6.00	0.0210		
Total BTEX	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 5 (H233473-24)

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	07/10/2023	ND	2.03	101	2.00	1.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.00	100	2.00	0.135		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.13	107	2.00	0.000984		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.41	107	6.00	0.0210		
Total BTEX	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 6 (H233473-25)

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	07/10/2023	ND	2.03	101	2.00	1.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.00	100	2.00	0.135		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.13	107	2.00	0.000984		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.41	107	6.00	0.0210		
Total BTEX	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 7 (H233473-26)

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	07/10/2023	ND	2.03	101	2.00	1.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.00	100	2.00	0.135		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.13	107	2.00	0.000984		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.41	107	6.00	0.0210		
Total BTEX	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 8 (H233473-27)

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	07/10/2023	ND	2.03	101	2.00	1.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.00	100	2.00	0.135		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.13	107	2.00	0.000984		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.41	107	6.00	0.0210		
Total BTEX	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/10/2023	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	07/11/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 9 (H233473-28)

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	07/10/2023	ND	2.03	101	2.00	1.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.00	100	2.00	0.135		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.13	107	2.00	0.000984		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.41	107	6.00	0.0210		
Total BTEX	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 10 (H233473-29)

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	07/10/2023	ND	2.03	101	2.00	1.65	
Toluene*	<0.050	0.050	07/10/2023	ND	2.00	100	2.00	0.135	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.13	107	2.00	0.000984	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.41	107	6.00	0.0210	
Total BTEx	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 11 (H233473-30)

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	07/10/2023	ND	2.03	101	2.00	1.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.00	100	2.00	0.135		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.13	107	2.00	0.000984		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.41	107	6.00	0.0210		
Total BTEx	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

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	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 12 (H233473-31)

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	07/10/2023	ND	2.03	101	2.00	1.65		
Toluene*	<0.050	0.050	07/10/2023	ND	2.00	100	2.00	0.135		
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.13	107	2.00	0.000984		
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.41	107	6.00	0.0210		
Total BTEX	<0.300	0.300	07/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 13 (H233473-32)

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	07/10/2023	ND	2.10	105	2.00	0.557	
Toluene*	<0.050	0.050	07/10/2023	ND	2.07	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.03	101	2.00	0.623	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.13	102	6.00	0.932	
Total BTEX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 14 (H233473-33)

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	07/10/2023	ND	2.10	105	2.00	0.557	
Toluene*	<0.050	0.050	07/10/2023	ND	2.07	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.03	101	2.00	0.623	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.13	102	6.00	0.932	
Total BTEX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/10/2023	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	07/10/2023	ND	205	102	200	4.07	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	217	108	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/07/2023
 Reported: 07/11/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 15 (H233473-34)

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	07/10/2023	ND	2.10	105	2.00	0.557	
Toluene*	<0.050	0.050	07/10/2023	ND	2.07	103	2.00	1.09	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.03	101	2.00	0.623	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.13	102	6.00	0.932	
Total BTEX	<0.300	0.300	07/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

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	07/10/2023	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	07/10/2023	ND	191	95.7	200	2.13	
DRO >C10-C28*	<10.0	10.0	07/10/2023	ND	202	101	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	07/10/2023	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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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", written in black ink.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST													
Project Manager: LANE Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>													
Address: P.O. Box 301				Company: Mankovich																	
City: Lovington		State: NM		Zip: 88260		Attn: Jeff Brown															
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address: 4801 Bus p Blvd																	
Project #: 18228		Project Owner: Mankovich		City: Hobbs																	
Project Name: Chile Verde 23/24 Fed Com 716 H				State: NM																Zip: 88240	
Project Location: Rural Carlisle NM				Phone #:																	
Sampler Name: Dominic Casarez				Fax #:																	

FOR LAB USE ONLY		GRAB OR (COMP. #)	CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER						
H233473	NW1	1											7-7				
2	NW2																
3	NW3																
4	NW4																
5	NW5																
6	NW6																
7	NW7																
8	NW8																
9	NW9																
10	NW10																

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Relinquished By: 	Date: 7-7 Time: 10:55	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: Time:	Received By:	Add'l Phone #: Add'l Fax #:

Please email results to pm@etechenv.com.

Delivered By: (Circle One) - 9.a) C.O.L.	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other: C-9.6: #113		

FORM-006
Revision 1.0

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CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lane Crenshaw Address: P.O. Box 301 City: Lovington State: NM Zip: 88260 Phone #: (575) 396-2378 Fax #: (575) 396-1429 Project #: 18228 Project Owner: Markouin Project Name: Chile Verde 2324 Fed Com 716 H Project Location: Rural Carlisle NM Sampler Name: Dominic Casarez				BILL TO P.O. #: Company: Mewbarn Attn: Jeff Brown Address: 4801 Busp Blvd City: Hobbs State: NM Zip: 88240 Phone #: Fax #:		ANALYSIS REQUEST <div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
FOR LAB USE ONLY Lab I.D. H033473		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											
11		NW11		1						7-7											
12		NW12		1																	
13		NW13		1																	
14		NW14		1																	
15		NW15		1																	
16		NW16		1																	
17		EW1		1																	
18		EW2		1																	
19		EW3		1																	
20		SW1		1																	

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Relinquished By: Relinquished By:	Date: 7-7 Time: 10:55 Date: Time:	Received By: Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: Please email results to pm@etechenv.com.	Add'l Phone #: Add'l Fax #:
--	--	--	---	--

Delivered By: (Circle One) - 90:JCO-6: Sampler - UPS - Bus - Other: - 90:JCO-6:	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials)
--	--	--------------------------------------

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Revision 1.0

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CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST													
Project Manager: Lane Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>													
Address: P.O. Box 301				Company: Newbourn																	
City: Lovington		State: NM		Zip: 88260		Attn: Jeff Broom															
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address: 4801 Los R Blvd																	
Project #: 18228		Project Owner: Newbourn		City: Hobbs NM																	
Project Name: Chile Verde 23/24 Fed Can 711H				State: NM Zip: 88240																	
Project Location: Rural Carlsbad NM				Phone #:																	
Sampler Name: Dominik Casarez				Fax #:																	

FOR LAB USE ONLY		GRAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER						
1833473	SW2	✓	1			✓				✓			7-7		✓	✓	✓
22	SW3																
23	SW4																
24	SW5																
25	SW6																
26	SW7																
27	SW8																
28	SW9																
29	SW10																
30	SW11																

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Relinquished By: 	Date: 7-7 Time: 10:55	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: Time:	Received By:	Please email results to pm@etechenv.com.
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-9.0°C.O.U. -9.0°C.H.I.	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	

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

July 13, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 07/10/23 16:45.

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 16 (H233503-01)

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	07/12/2023	ND	1.89	94.3	2.00	8.57	
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34	
Total BTX	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	07/12/2023	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	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 17 (H233503-02)

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	07/12/2023	ND	1.89	94.3	2.00	8.57		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34		
Total BTEX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-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	07/12/2023	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	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 18 (H233503-03)

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	07/12/2023	ND	1.89	94.3	2.00	8.57		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34		
Total BTEX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/12/2023	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	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 19 (H233503-04)

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	07/12/2023	ND	1.89	94.3	2.00	8.57		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34		
Total BTEX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

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	07/12/2023	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	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 20 (H233503-05)

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	07/12/2023	ND	1.89	94.3	2.00	8.57		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34		
Total BTEx	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/12/2023	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	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 21 (H233503-06)

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	07/12/2023	ND	1.89	94.3	2.00	8.57		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34		
Total BTEX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/12/2023	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	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 22 (H233503-07)

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	07/12/2023	ND	1.89	94.3	2.00	8.57		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34		
Total BTEX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/12/2023	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	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 23 (H233503-08)

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	07/12/2023	ND	1.89	94.3	2.00	8.57		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34		
Total BTEx	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/12/2023	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	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 24 (H233503-09)

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	07/12/2023	ND	1.89	94.3	2.00	8.57		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34		
Total BTEX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	07/12/2023	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	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 25 (H233503-10)

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	07/12/2023	ND	1.89	94.3	2.00	8.57		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34		
Total BTEx	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/12/2023	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	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 17 (H233503-11)

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	07/12/2023	ND	1.89	94.3	2.00	8.57	
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34	
Total BTX	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-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	07/12/2023	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	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 18 (H233503-12)

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	07/12/2023	ND	1.89	94.3	2.00	8.57		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	7.48		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.99	99.5	2.00	6.28		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.01	100	6.00	7.34		
Total BTX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	07/12/2023	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	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 19 (H233503-13)

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	07/12/2023	ND	1.93	96.7	2.00	9.15		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	8.92		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.03	102	2.00	8.86		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.12	102	6.00	8.76		
Total BTEX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/12/2023	ND	432	108	400	3.64		

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	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 132 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 20 (H233503-14)

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	07/12/2023	ND	1.93	96.7	2.00	9.15	
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	8.92	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.03	102	2.00	8.86	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.12	102	6.00	8.76	
Total BTEX	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/12/2023	ND	432	108	400	3.64	

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	07/11/2023	ND	201	100	200	4.46	
DRO >C10-C28*	<10.0	10.0	07/11/2023	ND	190	95.2	200	5.82	
EXT DRO >C28-C36	<10.0	10.0	07/11/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 21 (H233503-15)

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	07/12/2023	ND	1.93	96.7	2.00	9.15		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	8.92		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.03	102	2.00	8.86		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.12	102	6.00	8.76		
Total BTEX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-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	07/12/2023	ND	432	108	400	3.64		

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	07/12/2023	ND	176	87.9	200	0.981	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	180	90.1	200	0.460	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 22 (H233503-16)

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	07/12/2023	ND	1.93	96.7	2.00	9.15	
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	8.92	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.03	102	2.00	8.86	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.12	102	6.00	8.76	
Total BTEX	<0.300	0.300	07/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

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	07/12/2023	ND	432	108	400	3.64		

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	07/12/2023	ND	176	87.9	200	0.981	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	180	90.1	200	0.460	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 23 (H233503-17)

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	07/12/2023	ND	1.93	96.7	2.00	9.15		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	8.92		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.03	102	2.00	8.86		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.12	102	6.00	8.76		
Total BTEX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	07/12/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	176	87.9	200	0.981	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	180	90.1	200	0.460	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 149 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 24 (H233503-18)

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	07/12/2023	ND	1.93	96.7	2.00	9.15		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	8.92		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.03	102	2.00	8.86		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.12	102	6.00	8.76		
Total BTEX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	07/12/2023	ND	432	108	400	3.64		

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	07/12/2023	ND	176	87.9	200	0.981	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	180	90.1	200	0.460	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/10/2023
 Reported: 07/13/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 25 (H233503-19)

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	07/12/2023	ND	1.93	96.7	2.00	9.15		
Toluene*	<0.050	0.050	07/12/2023	ND	1.87	93.6	2.00	8.92		
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.03	102	2.00	8.86		
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.12	102	6.00	8.76		
Total BTEX	<0.300	0.300	07/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-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	07/12/2023	ND	432	108	400	3.64		

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	07/12/2023	ND	176	87.9	200	0.981	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	180	90.1	200	0.460	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 146 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Lane Crenshaw				P.O. #:				Chloride TPH (8015M) BTX (8021B)																			
Address: P.O. Box 301				Company: Newbourn																							
City: Lovington State: NM Zip: 88260				Attn: Jeff Broom																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address: 4801 Bus pBld																							
Project #: 18228 Project Owner: Newbourn				City: Hobbs																							
Project Name: Chile Verde 23/24 Fed Com 710 H				State: NM Zip:																							
Project Location: Rural Carlsbad 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		SLUDGE		OTHER		ACID/BASE		ICE / COOL		OTHER		DATE		TIME	
H233503				C		1						✓						✓						7-10			
DC		1 SW16		C		1																					
		2 SW17		C		1																					
		3 SW18		C		1																					
		4 SW19		C		1																					
		5 SW20		C		1																					
		6 SW21		C		1																					
		7 SW22		C		1																					
		8 SW23		C		1																					
		9 SW24		C		1																					
		10 SW25		C		1																					
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																											
Relinquished By: [Signature]				Date: 7-10				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:											
				Time: 7:45								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:											
Relinquished By:				Date:				Received By:				REMARKS:															
				Time:																							
Delivered By: (Circle One)				#140				Sample Condition				CHECKED BY:				Please email results to pm@etechenv.com.											
Sampler - UPS - Bus - Other:				2.40				Cool Intact				(Initials)															
								<input type="checkbox"/> Yes <input type="checkbox"/> No				YO															

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

Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lance Crenshaw Address: P.O. Box 301 City: Lovington State: NM Zip: 88260 Phone #: (575) 396-2378 Fax #: (575) 396-1429 Project #: 18228 Project Owner: Mowbray Project Name: Chile Verde 23/24 Fed Can 716 H Project Location: Rural Carlsbad NM Sampler Name: Dominick Casvel				BILL TO P.O. #: Company: Mowbray Attn: Jeff Broem Address: 4811 Busch Blvd City: Harts State: NM Zip: Phone #: Fax #:				ANALYSIS REQUEST																
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING		Chloride TPH (8015M) BTEX (8021B)												
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OTHER :	ACID/BASE: ICE / COOL	OTHER :	DATE	TIME												
11 NW17		C 1		✓					✓		7-10		✓	✓	✓									
12 NW18		C 1		✓					✓				✓	✓	✓									
13 NW19		C 1		✓					✓				✓	✓	✓									
14 NW20		C 1		✓					✓				✓	✓	✓									
15 NW21		C 1		✓					✓				✓	✓	✓									
16 NW22		C 1		✓					✓				✓	✓	✓									
17 NW23		C 1		✓					✓				✓	✓	✓									
18 NW24		C 1		✓					✓				✓	✓	✓									
19 NW25		C 1		✓					✓				✓	✓	✓									
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Relinquished By: [Signature]				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:												
Relinquished By:				Received By:				Lx Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:												
Delivered By: (Circle One)				Sample Condition:				EMARKS:																
Sampler - UPS - Bus - Other:																								



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

July 19, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 07/13/23 16:26.

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/13/2023
 Reported: 07/19/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 26 (H233631-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.16	108	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2023	ND	2.12	106	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.07	104	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.26	104	6.00	4.49	
Total BTX	<0.300	0.300	07/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

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	07/17/2023	ND	448	112	400	3.64		

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	07/17/2023	ND	207	103	200	0.258	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	205	103	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/13/2023
 Reported: 07/19/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 27 (H233631-02)

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	07/17/2023	ND	2.16	108	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2023	ND	2.12	106	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.07	104	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.26	104	6.00	4.49	
Total BTEX	<0.300	0.300	07/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/17/2023	ND	448	112	400	3.64	

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	07/17/2023	ND	207	103	200	0.258	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	205	103	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/13/2023
 Reported: 07/19/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 1 (H233631-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.16	108	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2023	ND	2.12	106	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.07	104	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.26	104	6.00	4.49	
Total BTEx	<0.300	0.300	07/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/17/2023	ND	448	112	400	3.64		

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	07/17/2023	ND	207	103	200	0.258	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	205	103	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/13/2023
 Reported: 07/19/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 2 (H233631-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.16	108	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2023	ND	2.12	106	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.07	104	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.26	104	6.00	4.49	
Total BTEX	<0.300	0.300	07/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

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	07/17/2023	ND	448	112	400	3.64		

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	07/17/2023	ND	207	103	200	0.258	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	205	103	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/13/2023
 Reported: 07/19/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 4 (H233631-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.16	108	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2023	ND	2.12	106	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.07	104	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.26	104	6.00	4.49	
Total BTEx	<0.300	0.300	07/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/17/2023	ND	448	112	400	3.64		

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	07/17/2023	ND	207	103	200	0.258	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	205	103	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/13/2023
 Reported: 07/19/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 26 (H233631-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.16	108	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2023	ND	2.12	106	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.07	104	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.26	104	6.00	4.49	
Total BTEX	<0.300	0.300	07/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/17/2023	ND	448	112	400	3.64		

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	07/17/2023	ND	207	103	200	0.258	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	205	103	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 74.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/13/2023
 Reported: 07/19/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 27 (H233631-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.16	108	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2023	ND	2.12	106	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.07	104	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.26	104	6.00	4.49	
Total BTEX	<0.300	0.300	07/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/17/2023	ND	448	112	400	3.64		

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	07/17/2023	ND	207	103	200	0.258	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	205	103	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/13/2023
 Reported: 07/19/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/13/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 28 (H233631-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.16	108	2.00	3.72	
Toluene*	<0.050	0.050	07/17/2023	ND	2.12	106	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.07	104	2.00	4.07	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.26	104	6.00	4.49	
Total BTEX	<0.300	0.300	07/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/17/2023	ND	448	112	400	3.64		

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	07/17/2023	ND	207	103	200	0.258	
DRO >C10-C28*	<10.0	10.0	07/17/2023	ND	205	103	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	07/17/2023	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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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", 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

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST													
Project Manager: LANC Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8016M)</div> <div>BTEX (8021B)</div> </div>													
Address: P.O. Box 301				Company: Mewbourn																	
City: Lovington		State: NM		Zip: 88260		Attn: Jeff Brown															
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address: 4901 Busch Blvd																	
Project #: 18228		Project Owner: Mewbourn		City: Hobbs																	
Project Name: Chile Verde 2714 Rd Can 716 H				State: NM Zip: 88240																	
Project Location: Rural Carlisbad NM				Phone #:																	
Sampler Name: Dominic Casarez				Fax #:																	

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	Chloride	TPH (8016M)	BTEX (8021B)
					GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER						
H233631	DC	1	SW26	C	I									7-13				
		2	SW27	C	I													
		3	WW1	C	I													
		4	NW2	C	I													
		5	EW4	C	I													
		6	NW26	C	I													
		7	NW27	C	I													
		8	NW28	C	I													

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Relinquished By: 	Date: 7-13-23 Time: 1024	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: Time:	Received By:	REMARKS:

Delivered By: (Circle One) **412 #140**

Sampler - UPS - Bus - Other: **412 #140**

Sample Condition
Cool Intact
☐ Yes ☐ No

CHECKED BY: **SK**

Please email results to pm@etechenv.com.

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 24, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 07/17/23 16:20.

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 28 (H233699-01)

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	07/21/2023	ND	2.04	102	2.00	4.61	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	97.9	2.00	3.50	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.12	106	2.00	3.59	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.41	107	6.00	3.56	
Total BTEx	<0.300	0.300	07/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

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	07/19/2023	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	07/20/2023	ND	171	85.7	200	8.86	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	225	112	200	26.7	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 29 (H233699-02)

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	07/21/2023	ND	2.04	102	2.00	4.61		
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	97.9	2.00	3.50		
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.12	106	2.00	3.59		
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.41	107	6.00	3.56		
Total BTEX	<0.300	0.300	07/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-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	07/19/2023	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	07/20/2023	ND	171	85.7	200	8.86	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	225	112	200	26.7	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 30 (H233699-03)

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	07/21/2023	ND	2.04	102	2.00	4.61		
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	97.9	2.00	3.50		
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.12	106	2.00	3.59		
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.41	107	6.00	3.56		
Total BTEX	<0.300	0.300	07/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/19/2023	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	07/20/2023	ND	171	85.7	200	8.86	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	225	112	200	26.7	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 31 (H233699-04)

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	07/21/2023	ND	2.04	102	2.00	4.61		
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	97.9	2.00	3.50		
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.12	106	2.00	3.59		
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.41	107	6.00	3.56		
Total BTEX	<0.300	0.300	07/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/19/2023	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	07/20/2023	ND	171	85.7	200	8.86	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	225	112	200	26.7	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 71.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 32 (H233699-05)

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	07/21/2023	ND	2.04	102	2.00	4.61		
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	97.9	2.00	3.50		
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.12	106	2.00	3.59		
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.41	107	6.00	3.56		
Total BTEX	<0.300	0.300	07/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/19/2023	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	07/20/2023	ND	171	85.7	200	8.86	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	225	112	200	26.7	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 33 (H233699-06)

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	07/21/2023	ND	2.04	102	2.00	4.61		
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	97.9	2.00	3.50		
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.12	106	2.00	3.59		
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.41	107	6.00	3.56		
Total BTEx	<0.300	0.300	07/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	07/19/2023	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	07/20/2023	ND	171	85.7	200	8.86	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	225	112	200	26.7	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 71.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 34 (H233699-07)

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	07/21/2023	ND	2.04	102	2.00	4.61		
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	97.9	2.00	3.50		
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.12	106	2.00	3.59		
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.41	107	6.00	3.56		
Total BTEx	<0.300	0.300	07/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/19/2023	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	07/20/2023	ND	171	85.7	200	8.86	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	225	112	200	26.7	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 29 (H233699-08)

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	07/21/2023	ND	2.04	102	2.00	4.61		
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	97.9	2.00	3.50		
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.12	106	2.00	3.59		
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.41	107	6.00	3.56		
Total BTEX	<0.300	0.300	07/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

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	07/19/2023	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	07/20/2023	ND	171	85.7	200	8.86	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	225	112	200	26.7	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 30 (H233699-09)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2023	ND	1.95	97.3	2.00	4.32	
Toluene*	<0.050	0.050	07/21/2023	ND	1.85	92.7	2.00	6.30	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.97	98.4	2.00	3.77	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	5.91	98.6	6.00	5.34	
Total BTEx	<0.300	0.300	07/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/19/2023	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	07/20/2023	ND	171	85.7	200	8.86	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	225	112	200	26.7	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 69.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 31 (H233699-10)

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	07/21/2023	ND	1.95	97.3	2.00	4.32	
Toluene*	<0.050	0.050	07/21/2023	ND	1.85	92.7	2.00	6.30	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.97	98.4	2.00	3.77	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	5.91	98.6	6.00	5.34	
Total BTEx	<0.300	0.300	07/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/19/2023	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	07/20/2023	ND	171	85.7	200	8.86	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	225	112	200	26.7	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 66.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 32 (H233699-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2023	ND	1.95	97.3	2.00	4.32	
Toluene*	<0.050	0.050	07/21/2023	ND	1.85	92.7	2.00	6.30	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.97	98.4	2.00	3.77	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	5.91	98.6	6.00	5.34	
Total BTEx	<0.300	0.300	07/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

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	07/19/2023	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	07/20/2023	ND	171	85.7	200	8.86	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	225	112	200	26.7	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 33 (H233699-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2023	ND	1.95	97.3	2.00	4.32	
Toluene*	<0.050	0.050	07/21/2023	ND	1.85	92.7	2.00	6.30	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.97	98.4	2.00	3.77	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	5.91	98.6	6.00	5.34	
Total BTEx	<0.300	0.300	07/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/19/2023	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	07/20/2023	ND	171	85.7	200	8.86	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	225	112	200	26.7	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 5 (H233699-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2023	ND	1.95	97.3	2.00	4.32	
Toluene*	<0.050	0.050	07/21/2023	ND	1.85	92.7	2.00	6.30	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.97	98.4	2.00	3.77	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	5.91	98.6	6.00	5.34	
Total BTEX	<0.300	0.300	07/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/19/2023	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	07/20/2023	ND	171	85.7	200	8.86	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	225	112	200	26.7	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 6 (H233699-14)

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	07/21/2023	ND	1.95	97.3	2.00	4.32	
Toluene*	<0.050	0.050	07/21/2023	ND	1.85	92.7	2.00	6.30	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.97	98.4	2.00	3.77	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	5.91	98.6	6.00	5.34	
Total BTEX	<0.300	0.300	07/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-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	07/19/2023	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	07/20/2023	ND	171	85.7	200	8.86	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	225	112	200	26.7	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 7 (H233699-15)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/21/2023	ND	1.95	97.3	2.00	4.32		
Toluene*	<0.050	0.050	07/21/2023	ND	1.85	92.7	2.00	6.30		
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.97	98.4	2.00	3.77		
Total Xylenes*	<0.150	0.150	07/21/2023	ND	5.91	98.6	6.00	5.34		
Total BTX	<0.300	0.300	07/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/19/2023	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	07/20/2023	ND	171	85.7	200	8.86	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	225	112	200	26.7	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 8 (H233699-16)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2023	ND	1.95	97.3	2.00	4.32	
Toluene*	<0.050	0.050	07/21/2023	ND	1.85	92.7	2.00	6.30	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.97	98.4	2.00	3.77	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	5.91	98.6	6.00	5.34	
Total BTEX	<0.300	0.300	07/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/19/2023	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	07/20/2023	ND	172	86.2	200	1.11	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	177	88.4	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 56.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.2 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 3 (H233699-17)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/21/2023	ND	1.95	97.3	2.00	4.32		
Toluene*	<0.050	0.050	07/21/2023	ND	1.85	92.7	2.00	6.30		
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.97	98.4	2.00	3.77		
Total Xylenes*	<0.150	0.150	07/21/2023	ND	5.91	98.6	6.00	5.34		
Total BTEX	<0.300	0.300	07/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/19/2023	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	07/20/2023	ND	172	86.2	200	1.11	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	177	88.4	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 53.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.5 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 4 (H233699-18)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2023	ND	1.95	97.3	2.00	4.32	
Toluene*	<0.050	0.050	07/21/2023	ND	1.85	92.7	2.00	6.30	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.97	98.4	2.00	3.77	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	5.91	98.6	6.00	5.34	
Total BTX	<0.300	0.300	07/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/19/2023	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	07/20/2023	ND	172	86.2	200	1.11	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	177	88.4	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 55.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.6 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 5 (H233699-19)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2023	ND	1.95	97.3	2.00	4.32	
Toluene*	<0.050	0.050	07/21/2023	ND	1.85	92.7	2.00	6.30	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.97	98.4	2.00	3.77	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	5.91	98.6	6.00	5.34	
Total BTEX	<0.300	0.300	07/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-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	07/19/2023	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	07/20/2023	ND	172	86.2	200	1.11	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	177	88.4	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 54.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 61.5 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/17/2023
 Reported: 07/24/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 6 (H233699-20)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2023	ND	1.95	97.3	2.00	4.32	
Toluene*	<0.050	0.050	07/21/2023	ND	1.85	92.7	2.00	6.30	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.97	98.4	2.00	3.77	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	5.91	98.6	6.00	5.34	
Total BTEX	<0.300	0.300	07/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-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	07/19/2023	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	07/20/2023	ND	172	86.2	200	1.11	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	177	88.4	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					

Surrogate: 1-Chlorooctane 56.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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", is written over a horizontal line.

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

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO		ANALYSIS REQUEST										
Project Manager: Lane Crenshaw		P.O. #:		Chloride	TPH (8015M)	BTEX (8021B)								
Address: P.O. Box 301		Company: Melbourn												
City: Lovington State: NM Zip: 88260		Attn: Jeff Brown												
Phone #: (575) 396-2378 Fax #: (575) 396-1429		Address: 461 Wisp Blvd												
Project #: 8228 Project Owner: Melbourn		City: Hobbs												
Project Name: Chile Verde 23/24 Fed Com 716 H		State: NM Zip: 88240												
Project Location: Rural Carlsbad		Phone #:												
Sampler Name: Dominica Casarez		Fax #:												
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING						
Lab I.D.	Sample I.D.	GRAB OR (COMP. # CONTAINERS)	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE	ICE / COOL	OTHER :	DATE	TIME		
4233699														
1 SW28											7-17			
2 SW29														
3 SW30														
4 SW31														
5 SW32														
6 SW33														
7 SW34														
8 NW29														
9 NW30														
10 NW31														

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Relinquished By: 	Date: 7-17	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1620		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
	REMARKS:			
Relinquished By:	Date:	Received By:	Please email results to pm@etechenv.com.	
Delivered By: (Circle One)	4.0e	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) 	
Sampler - UPS - Bus - Other:	#140	Yes <input type="checkbox"/> No <input type="checkbox"/>		



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Lane Crenshaw				P.O. #:				<div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div>																					
Address: P.O. Box 301				Company: Melbourn																									
City: Lovington State: NM Zip: 88260				Attn: Jeff Broom																									
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address: 4801 bus p Blvd																									
Project #: 18228 Project Owner: Melbourn				City: Hobbs																									
Project Name: Chile Verde 23/24 fed Com 716 H				State: NM Zip: 88240																									
Project Location: Rural Carlsbad				Phone #:																									
Sampler Name: Dominic Crenshaw				Fax #:																									
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		GRAB OR (COMP. # CONTAINERS)		MATRIX		PRESERV.		SAMPLING		DATE		TIME													
		H233199																											
		Di 11		NW32																									
		12		NW33																									
		13		EWS																									
		14		EW6																									
		15		EW7																									
		16		EW8																									
		17		WW3																									
		18		WW4																									
		19		WW5																									
		20		WW6																									
<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: 7-17		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:															
				Time: 1620						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:															
Relinquished By:				Date:		Received By:				REMARKS:																			
				Time:																									
Delivered By: (Circle One)						Sample Condition						CHECKED BY:																	
Sampler - UPS - Bus - Other:						Cool Intact						(Initials)																	
4.0c #140						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Yo																	

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 26, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 07/20/23 16:15.

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 34 (H233801-01)

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	07/26/2023	ND	2.04	102	2.00	3.97	
Toluene*	<0.050	0.050	07/26/2023	ND	2.10	105	2.00	0.816	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.09	105	2.00	1.35	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.20	103	6.00	1.99	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/25/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	207	104	200	3.25	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	208	104	200	3.17	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 35 (H233801-02)

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	07/26/2023	ND	2.04	102	2.00	3.97	
Toluene*	<0.050	0.050	07/26/2023	ND	2.10	105	2.00	0.816	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.09	105	2.00	1.35	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.20	103	6.00	1.99	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/25/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	204	102	200	3.69	QM-07
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	196	97.9	200	8.88	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 36 (H233801-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	2.04	102	2.00	3.97	
Toluene*	<0.050	0.050	07/26/2023	ND	2.10	105	2.00	0.816	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.09	105	2.00	1.35	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.20	103	6.00	1.99	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

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	07/25/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	204	102	200	3.69	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	196	97.9	200	8.88	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 37 (H233801-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	2.04	102	2.00	3.97	
Toluene*	<0.050	0.050	07/26/2023	ND	2.10	105	2.00	0.816	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.09	105	2.00	1.35	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.20	103	6.00	1.99	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/25/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	204	102	200	3.69	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	196	97.9	200	8.88	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 38 (H233801-05)

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	07/26/2023	ND	2.04	102	2.00	3.97	
Toluene*	<0.050	0.050	07/26/2023	ND	2.10	105	2.00	0.816	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.09	105	2.00	1.35	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.20	103	6.00	1.99	
Total BTX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/25/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	204	102	200	3.69	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	196	97.9	200	8.88	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 39 (H233801-06)

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	07/26/2023	ND	2.04	102	2.00	3.97	
Toluene*	<0.050	0.050	07/26/2023	ND	2.10	105	2.00	0.816	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.09	105	2.00	1.35	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.20	103	6.00	1.99	
Total BTX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/25/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	204	102	200	3.69	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	196	97.9	200	8.88	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 40 (H233801-07)

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	07/26/2023	ND	2.04	102	2.00	3.97	
Toluene*	<0.050	0.050	07/26/2023	ND	2.10	105	2.00	0.816	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.09	105	2.00	1.35	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.20	103	6.00	1.99	
Total BTX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/25/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	204	102	200	3.69	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	196	97.9	200	8.88	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 35 (H233801-08)

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	07/26/2023	ND	2.04	102	2.00	3.97	
Toluene*	<0.050	0.050	07/26/2023	ND	2.10	105	2.00	0.816	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.09	105	2.00	1.35	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.20	103	6.00	1.99	
Total BTX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

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	07/25/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	204	102	200	3.69	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	196	97.9	200	8.88	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 36 (H233801-09)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	2.04	102	2.00	3.97	
Toluene*	<0.050	0.050	07/26/2023	ND	2.10	105	2.00	0.816	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.09	105	2.00	1.35	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.20	103	6.00	1.99	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/25/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	204	102	200	3.69	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	196	97.9	200	8.88	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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 HOBBS NM, 88240
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 37 (H233801-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	2.04	102	2.00	3.97	
Toluene*	<0.050	0.050	07/26/2023	ND	2.10	105	2.00	0.816	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.09	105	2.00	1.35	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.20	103	6.00	1.99	
Total BTX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/25/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	204	102	200	3.69	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	196	97.9	200	8.88	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 39 (H233801-12)

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	07/26/2023	ND	2.04	102	2.00	3.97	
Toluene*	<0.050	0.050	07/26/2023	ND	2.10	105	2.00	0.816	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.09	105	2.00	1.35	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.20	103	6.00	1.99	
Total BTX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/25/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	204	102	200	3.69	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	196	97.9	200	8.88	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 9 (H233801-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/26/2023	ND	2.04	102	2.00	3.97	
Toluene*	<0.050	0.050	07/26/2023	ND	2.10	105	2.00	0.816	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.09	105	2.00	1.35	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.20	103	6.00	1.99	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/25/2023	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	204	102	200	3.69	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	196	97.9	200	8.88	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 10 (H233801-14)

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	07/26/2023	ND	2.04	102	2.00	3.97	
Toluene*	<0.050	0.050	07/26/2023	ND	2.10	105	2.00	0.816	
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.09	105	2.00	1.35	
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.20	103	6.00	1.99	
Total BTEX	<0.300	0.300	07/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/25/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	204	102	200	3.69	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	196	97.9	200	8.88	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW 11 (H233801-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/26/2023	ND	2.04	102	2.00	3.97		
Toluene*	<0.050	0.050	07/26/2023	ND	2.10	105	2.00	0.816		
Ethylbenzene*	<0.050	0.050	07/26/2023	ND	2.09	105	2.00	1.35		
Total Xylenes*	<0.150	0.150	07/26/2023	ND	6.20	103	6.00	1.99		
Total BTEX	<0.300	0.300	07/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/25/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	204	102	200	3.69	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	196	97.9	200	8.88	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/20/2023
 Reported: 07/26/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/20/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 7 (H233801-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/25/2023	ND	1.88	93.9	2.00	0.911		
Toluene*	<0.050	0.050	07/25/2023	ND	2.01	101	2.00	2.79		
Ethylbenzene*	<0.050	0.050	07/25/2023	ND	2.05	103	2.00	2.02		
Total Xylenes*	<0.150	0.150	07/25/2023	ND	6.14	102	6.00	2.81		
Total BTEX	<0.300	0.300	07/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

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	07/25/2023	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	204	102	200	3.69	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	196	97.9	200	8.88	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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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

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:						BILL TO							ANALYSIS REQUEST							
Etech Environmental & Safety Solutions, Inc.																				
Project Manager: Lane Crenshaw						P.O. #:							Chloride TPH (8015M) BTEX (8021B)							
Address: P.O. Box 301						Company: Newbourn														
City: Lovington State: NM Zip: 88260						Attn: Jeff Brown														
Phone #: (575) 396-2378 Fax #: (575) 396-1429						Address: 4801 Belpard Rd														
Project #: 18228 Project Owner: Newbourn						City: Hobbs														
Project Name: Chile Verde 23/24 Fed Cons 71L H						State: NM Zip: 88240														
Project Location: Rural Carlsbad						Phone #:														
Sampler Name: Dominick Casarez 2						Fax #:														
FOR LAB USE ONLY																				
Lab I.D.			Sample I.D.			GRAB OR (C)OMP. # CONTAINERS		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :			PRESERV. ACID/BASE: ICE / COOL OTHER :	SAMPLING DATE TIME								
NW34			NW35			✓ 1		✓			✓	7-20	✓ ✓ ✓							
NW36			NW37																	
NW38			NW39																	
NW40			SW35																	
SW36			SW37																	
<p>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: 7-20		Received By: [Signature]						Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:						
Time: 1615						Date: 7-20		REMARKS:						Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:						
Relinquished By:						Date:		Received By:												
Delivered By: (Circle One)						Time:														
Sampler - UPS - Bus - Other:						#140		Sample Condition						CHECKED BY: [Initials]						
28°C																				

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

July 28, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 07/21/23 16:20.

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/21/2023
 Reported: 07/28/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 38 (H233838-01)

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	07/28/2023	ND	2.06	103	2.00	2.15	
Toluene*	<0.050	0.050	07/28/2023	ND	1.98	98.9	2.00	5.25	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.04	102	2.00	4.97	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.12	102	6.00	4.49	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/26/2023	ND	432	108	400	3.64		

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	07/26/2023	ND	188	93.8	200	22.3	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	196	97.8	200	0.534	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/21/2023
 Reported: 07/28/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 8 (H233838-02)

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	07/28/2023	ND	2.06	103	2.00	2.15		
Toluene*	<0.050	0.050	07/28/2023	ND	1.98	98.9	2.00	5.25		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.04	102	2.00	4.97		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.12	102	6.00	4.49		
Total BTEX	<0.300	0.300	07/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/26/2023	ND	432	108	400	3.64	

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	07/26/2023	ND	160	80.1	200	1.32	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	163	81.4	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/21/2023
 Reported: 07/28/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 41 (H233838-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	2.15	
Toluene*	<0.050	0.050	07/28/2023	ND	1.98	98.9	2.00	5.25	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.04	102	2.00	4.97	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.12	102	6.00	4.49	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

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	07/26/2023	ND	432	108	400	3.64	

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	07/26/2023	ND	160	80.1	200	1.32	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	163	81.4	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/21/2023
 Reported: 07/28/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 9 (H233838-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	2.15		
Toluene*	<0.050	0.050	07/28/2023	ND	1.98	98.9	2.00	5.25		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.04	102	2.00	4.97		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.12	102	6.00	4.49		
Total BTEX	<0.300	0.300	07/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/26/2023	ND	432	108	400	3.64		

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	07/26/2023	ND	160	80.1	200	1.32	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	163	81.4	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/21/2023
 Reported: 07/28/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 42 (H233838-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	2.15	
Toluene*	<0.050	0.050	07/28/2023	ND	1.98	98.9	2.00	5.25	
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.04	102	2.00	4.97	
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.12	102	6.00	4.49	
Total BTEX	<0.300	0.300	07/28/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

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	07/26/2023	ND	432	108	400	3.64	

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	07/26/2023	ND	160	80.1	200	1.32	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	163	81.4	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 75.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/21/2023
 Reported: 07/28/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 10 (H233838-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2023	ND	2.06	103	2.00	2.15		
Toluene*	<0.050	0.050	07/28/2023	ND	1.98	98.9	2.00	5.25		
Ethylbenzene*	<0.050	0.050	07/28/2023	ND	2.04	102	2.00	4.97		
Total Xylenes*	<0.150	0.150	07/28/2023	ND	6.12	102	6.00	4.49		
Total BTEX	<0.300	0.300	07/28/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/26/2023	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	07/26/2023	ND	160	80.1	200	1.32	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	163	81.4	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

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.
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

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST													
Project Manager: <u>Lance Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>													
Address: P.O. Box 301				Company: <u>Mewbourn</u>																	
City: Lovington State: NM Zip: 88260				Attn: <u>Jeff Broom</u>																	
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address: <u>4801 BLP BLVD</u>																	
Project #: <u>18228</u> Project Owner: <u>Mewbourn</u>				City: <u>Hobbs NM</u>																	
Project Name: <u>Chile Verde 23/24 Fed Com 716 H</u>				State: <u>NM</u> Zip: <u>88248</u>																	
Project Location: <u>Rural Carlsbad, NM</u>				Phone #:																	
Sampler Name: <u>Donnie Casale</u>				Fax #:																	
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		GRAB OR (COMP. # CONTAINERS)		MATRIX		PRESERV		SAMPLING											
<u>18233838</u>		<u>SW38</u>		<u>C</u>		<u>1</u>		<u>✓</u>		<u>7-21</u>		<u>✓</u>									
<u>2</u>		<u>WW8</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>									
<u>3</u>		<u>NW41</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>									
<u>4</u>		<u>WW9</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>									
<u>5</u>		<u>NW42</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>									
<u>6</u>		<u>WW10</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>									
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Relinquished By: <u>[Signature]</u>				Date: <u>7-21</u>				Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:					
Relinquished By:				Time: <u>1620</u>				Received By:				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:					
Delivered By: (Circle One)				Date:				Sample Condition: <u>#140</u>				CHECKED BY: <u>[Signature]</u>				Please email results to pm@etechenv.com.					
Sampler - UPS - Bus - Other:				Time:				NO I NO													

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 31, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 07/25/23 16:08.

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/25/2023
 Reported: 07/31/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 11 (H233883-01)

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	07/30/2023	ND	2.29	114	2.00	2.70	
Toluene*	<0.050	0.050	07/30/2023	ND	2.21	111	2.00	3.24	
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.11	105	2.00	3.27	
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.31	105	6.00	3.55	
Total BTEX	<0.300	0.300	07/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/28/2023	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	07/28/2023	ND	192	96.2	200	1.07	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	205	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/25/2023
 Reported: 07/31/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 12 (H233883-02)

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	07/30/2023	ND	2.29	114	2.00	2.70		
Toluene*	<0.050	0.050	07/30/2023	ND	2.21	111	2.00	3.24		
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.11	105	2.00	3.27		
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.31	105	6.00	3.55		
Total BTEX	<0.300	0.300	07/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

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	07/28/2023	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	07/28/2023	ND	192	96.2	200	1.07	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	205	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/25/2023
 Reported: 07/31/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 13 (H233883-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2023	ND	2.29	114	2.00	2.70		
Toluene*	<0.050	0.050	07/30/2023	ND	2.21	111	2.00	3.24		
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.11	105	2.00	3.27		
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.31	105	6.00	3.55		
Total BTEx	<0.300	0.300	07/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/28/2023	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	07/28/2023	ND	192	96.2	200	1.07	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	205	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/25/2023
 Reported: 07/31/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW 14 (H233883-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2023	ND	2.29	114	2.00	2.70		
Toluene*	<0.050	0.050	07/30/2023	ND	2.21	111	2.00	3.24		
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.11	105	2.00	3.27		
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.31	105	6.00	3.55		
Total BTEX	<0.300	0.300	07/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/28/2023	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	07/28/2023	ND	192	96.2	200	1.07	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	205	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/25/2023
 Reported: 07/31/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 43 (H233883-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2023	ND	2.29	114	2.00	2.70		
Toluene*	<0.050	0.050	07/30/2023	ND	2.21	111	2.00	3.24		
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.11	105	2.00	3.27		
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.31	105	6.00	3.55		
Total BTEX	<0.300	0.300	07/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/28/2023	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	07/28/2023	ND	192	96.2	200	1.07	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	205	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/25/2023
 Reported: 07/31/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 44 (H233883-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/30/2023	ND	2.29	114	2.00	2.70		
Toluene*	<0.050	0.050	07/30/2023	ND	2.21	111	2.00	3.24		
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.11	105	2.00	3.27		
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.31	105	6.00	3.55		
Total BTEX	<0.300	0.300	07/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	07/28/2023	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	07/28/2023	ND	192	96.2	200	1.07	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	205	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 07/25/2023
 Reported: 07/31/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NW 45 (H233883-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2023	ND	2.29	114	2.00	2.70	
Toluene*	<0.050	0.050	07/30/2023	ND	2.21	111	2.00	3.24	
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.11	105	2.00	3.27	
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.31	105	6.00	3.55	
Total BTEx	<0.300	0.300	07/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

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	07/28/2023	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	07/28/2023	ND	192	96.2	200	1.07	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	205	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/25/2023
 Reported: 07/31/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 40 (H233883-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2023	ND	2.30	115	2.00	0.443	
Toluene*	<0.050	0.050	07/30/2023	ND	2.22	111	2.00	0.0782	
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.12	106	2.00	0.334	
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.34	106	6.00	0.289	
Total BTEX	<0.300	0.300	07/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/28/2023	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	07/28/2023	ND	192	96.2	200	1.07	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	205	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/25/2023
 Reported: 07/31/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 41 (H233883-09)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2023	ND	2.30	115	2.00	0.443	
Toluene*	<0.050	0.050	07/30/2023	ND	2.22	111	2.00	0.0782	
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.12	106	2.00	0.334	
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.34	106	6.00	0.289	
Total BTEX	<0.300	0.300	07/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/28/2023	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	07/28/2023	ND	192	96.2	200	1.07	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	205	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/25/2023
 Reported: 07/31/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 42 (H233883-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2023	ND	2.30	115	2.00	0.443	
Toluene*	<0.050	0.050	07/30/2023	ND	2.22	111	2.00	0.0782	
Ethylbenzene*	<0.050	0.050	07/30/2023	ND	2.12	106	2.00	0.334	
Total Xylenes*	<0.150	0.150	07/30/2023	ND	6.34	106	6.00	0.289	
Total BTX	<0.300	0.300	07/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/28/2023	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	07/28/2023	ND	192	96.2	200	1.07	
DRO >C10-C28*	<10.0	10.0	07/28/2023	ND	205	102	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	07/28/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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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", is written over a horizontal line.

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

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTX (8021B)</div> </div>																			
Address: P.O. Box 301				Company: Mewbourn																							
City: Lovington State: NM Zip: 88260				Attn: Jeff Broom																							
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address: 4801 Asp Blvd																							
Project #: 18228 Project Owner: Mewbourn				City: Hobbs																							
Project Name: Chile Verde 23/24 Fed Com F16 H				State: NM Zip: 88240																							
Project Location: Rural Carlsbad				Phone #:																							
Sampler Name: Dominic Casarez				Fax #:																							
FOR LAB USE ONLY		Lab I.D.	Sample I.D.	G/RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME																	
						GROUNDWATER	SLUDGE	OTHER :			ACID/BASE:	ICE / COOL	OTHER :														
						SOIL	OIL																				
H233883																											
Dc 1		NW11								7 25																	
2		NW12																									
3		NW13																									
4		NW14																									
5		NW43																									
6		NW44																									
7		NW45																									
8		SW40																									
9		SW41																									
10		SW42																									
<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: [Signature]				Date: 7-25 Time: 1408				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Add'l Phone #:											
Relinquished By:				Date:				Received By:				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Add'l Fax #:											
				Time:								REMARKS:															
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 5.8c				#140				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) [Signature]							
Please email results to pm@etechenv.com.																											

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

October 07, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: APOLLO CHILI VERDE WATER TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 07/28/23 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW 43	H233978-01	Soil	27-Jul-23 00:00	28-Jul-23 10:40
SW 44	H233978-02	Soil	27-Jul-23 00:00	28-Jul-23 10:40
SW 45	H233978-03	Soil	27-Jul-23 00:00	28-Jul-23 10:40
SW 46	H233978-04	Soil	27-Jul-23 00:00	28-Jul-23 10:40
SW 47	H233978-05	Soil	27-Jul-23 00:00	28-Jul-23 10:40
SW 48	H233978-06	Soil	27-Jul-23 00:00	28-Jul-23 10:40
WW 15	H233978-07	Soil	27-Jul-23 00:00	28-Jul-23 10:40
EW 12	H233978-08	Soil	27-Jul-23 00:00	28-Jul-23 10:40
NW 46	H233978-09	Soil	27-Jul-23 00:00	28-Jul-23 10:40
NW 47	H233978-10	Soil	27-Jul-23 00:00	28-Jul-23 10:40
NW 48	H233978-11	Soil	27-Jul-23 00:00	28-Jul-23 10:40
NW 49	H233978-12	Soil	27-Jul-23 00:00	28-Jul-23 10:40
NW 50	H233978-13	Soil	27-Jul-23 00:00	28-Jul-23 10:40
NW 51	H233978-14	Soil	27-Jul-23 00:00	28-Jul-23 10:40

10/07/24 - Client changed the sample ID on -06 and -07 (see COC). This is the revised report and will replace the one sent on 08/07/23.

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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

SW 43**H233978-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	3080352	AC	03-Aug-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080239	MS	04-Aug-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.2 %	71.5-134		3080239	MS	04-Aug-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B	

Surrogate: 1-Chlorooctane			88.6 %	48.2-134		3080206	MS	03-Aug-23	8015B	
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Surrogate: 1-Chlorooctadecane			101 %	49.1-148		3080206	MS	03-Aug-23	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

SW 44**H233978-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	3080352	AC	03-Aug-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3080239	MS	04-Aug-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	97.9 %	71.5-134	3080239	MS	04-Aug-23	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B

Surrogate: 1-Chlorooctane	90.4 %	48.2-134	3080206	MS	03-Aug-23	8015B
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Surrogate: 1-Chlorooctadecane	103 %	49.1-148	3080206	MS	03-Aug-23	8015B
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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

SW 45**H233978-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	208		16.0	mg/kg	4	3080352	AC	03-Aug-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3080239	MS	04-Aug-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	96.5 %	71.5-134	3080239	MS	04-Aug-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B	

Surrogate: 1-Chlorooctane	93.7 %	48.2-134	3080206	MS	03-Aug-23	8015B	
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Surrogate: 1-Chlorooctadecane	108 %	49.1-148	3080206	MS	03-Aug-23	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

SW 46**H233978-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	336		16.0	mg/kg	4	3080352	AC	03-Aug-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3080239	MS	04-Aug-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	99.1 %	71.5-134	3080239	MS	04-Aug-23	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B

Surrogate: 1-Chlorooctane	93.6 %	48.2-134	3080206	MS	03-Aug-23	8015B
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Surrogate: 1-Chlorooctadecane	107 %	49.1-148	3080206	MS	03-Aug-23	8015B
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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

SW 47**H233978-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	368		16.0	mg/kg	4	3080310	AC	03-Aug-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3080239	MS	04-Aug-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	99.5 %	71.5-134	3080239	MS	04-Aug-23	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B

Surrogate: 1-Chlorooctane	90.6 %	48.2-134	3080206	MS	03-Aug-23	8015B
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Surrogate: 1-Chlorooctadecane	102 %	49.1-148	3080206	MS	03-Aug-23	8015B
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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

SW 48**H233978-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	320		16.0	mg/kg	4	3080310	AC	03-Aug-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080239	MS	04-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080239	MS	04-Aug-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.7 %		71.5-134	3080239	MS	04-Aug-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080206	MS	03-Aug-23	8015B	

Surrogate: 1-Chlorooctane			93.2 %		48.2-134	3080206	MS	03-Aug-23	8015B	
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Surrogate: 1-Chlorooctadecane			108 %		49.1-148	3080206	MS	03-Aug-23	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

WW 15
H233978-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	368		16.0	mg/kg	4	3080310	AC	03-Aug-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3080240	JH/	04-Aug-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
Surrogate: 1-Chlorooctane			98.3 %	48.2-134		3080208	MS	03-Aug-23	8015B	
Surrogate: 1-Chlorooctadecane			112 %	49.1-148		3080208	MS	03-Aug-23	8015B	

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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

EW 12
H233978-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1060		16.0	mg/kg	4	3080310	AC	03-Aug-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3080240	JH/	04-Aug-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		114 %		71.5-134	3080240	JH/	04-Aug-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	

Surrogate: 1-Chlorooctane		102 %		48.2-134	3080208	MS	03-Aug-23	8015B	
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Surrogate: 1-Chlorooctadecane		117 %		49.1-148	3080208	MS	03-Aug-23	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

NW 46
H233978-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	3080310	AC	03-Aug-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3080240	JH/	04-Aug-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	112 %	71.5-134	3080240	JH/	04-Aug-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	

Surrogate: 1-Chlorooctane	89.5 %	48.2-134	3080208	MS	03-Aug-23	8015B	
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Surrogate: 1-Chlorooctadecane	101 %	49.1-148	3080208	MS	03-Aug-23	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

NW 47

H233978-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	3080310	AC	03-Aug-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		3080240	JH/	04-Aug-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
Surrogate: 1-Chlorooctane			59.9 %	48.2-134		3080208	MS	03-Aug-23	8015B	
Surrogate: 1-Chlorooctadecane			67.9 %	49.1-148		3080208	MS	03-Aug-23	8015B	

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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

NW 48
H233978-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	3080310	AC	03-Aug-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3080240	JH/	04-Aug-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
Surrogate: 1-Chlorooctane			109 %	48.2-134		3080208	MS	03-Aug-23	8015B	
Surrogate: 1-Chlorooctadecane			125 %	49.1-148		3080208	MS	03-Aug-23	8015B	

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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

NW 49
H233978-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	320		16.0	mg/kg	4	3080310	AC	03-Aug-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3080240	JH/	04-Aug-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	113 %	71.5-134	3080240	JH/	04-Aug-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	

Surrogate: 1-Chlorooctane	107 %	48.2-134	3080208	MS	03-Aug-23	8015B	
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Surrogate: 1-Chlorooctadecane	122 %	49.1-148	3080208	MS	03-Aug-23	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

NW 50
H233978-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	320		16.0	mg/kg	4	3080310	AC	03-Aug-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3080240	JH/	04-Aug-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	114 %	71.5-134	3080240	JH/	04-Aug-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	

Surrogate: 1-Chlorooctane	107 %	48.2-134	3080208	MS	03-Aug-23	8015B	
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Surrogate: 1-Chlorooctadecane	120 %	49.1-148	3080208	MS	03-Aug-23	8015B	
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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

NW 51
H233978-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	3080310	AC	03-Aug-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3080240	JH/	04-Aug-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3080240	JH/	04-Aug-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3080208	MS	03-Aug-23	8015B	
Surrogate: 1-Chlorooctane			94.1 %	48.2-134		3080208	MS	03-Aug-23	8015B	
Surrogate: 1-Chlorooctadecane			103 %	49.1-148		3080208	MS	03-Aug-23	8015B	

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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3080310 - 1:4 DI Water										
Blank (3080310-BLK1)				Prepared & Analyzed: 03-Aug-23						
Chloride	ND	16.0	mg/kg							
LCS (3080310-BS1)				Prepared & Analyzed: 03-Aug-23						
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3080310-BSD1)				Prepared & Analyzed: 03-Aug-23						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
Batch 3080352 - 1:4 DI Water										
Blank (3080352-BLK1)				Prepared & Analyzed: 03-Aug-23						
Chloride	ND	16.0	mg/kg							
LCS (3080352-BS1)				Prepared & Analyzed: 03-Aug-23						
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (3080352-BSD1)				Prepared & Analyzed: 03-Aug-23						
Chloride	432	16.0	mg/kg	400		108	80-120	7.69	20	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080239 - Volatiles**Blank (3080239-BLK1)**

Prepared: 02-Aug-23 Analyzed: 04-Aug-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.5	71.5-134			

LCS (3080239-BS1)

Prepared: 02-Aug-23 Analyzed: 04-Aug-23

Benzene	2.16	0.050	mg/kg	2.00		108	82.8-130			
Toluene	2.10	0.050	mg/kg	2.00		105	86-128			
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.7	85.9-128			
m,p-Xylene	4.01	0.100	mg/kg	4.00		100	89-129			
o-Xylene	1.97	0.050	mg/kg	2.00		98.4	86.1-125			
Total Xylenes	5.97	0.150	mg/kg	6.00		99.6	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0470		mg/kg	0.0500		94.1	71.5-134			

LCS Dup (3080239-BSD1)

Prepared: 02-Aug-23 Analyzed: 04-Aug-23

Benzene	2.19	0.050	mg/kg	2.00		109	82.8-130	1.35	15.8	
Toluene	2.12	0.050	mg/kg	2.00		106	86-128	0.979	15.9	
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	85.9-128	1.33	16	
m,p-Xylene	4.10	0.100	mg/kg	4.00		103	89-129	2.36	16.2	
o-Xylene	1.99	0.050	mg/kg	2.00		99.4	86.1-125	0.952	16.7	
Total Xylenes	6.09	0.150	mg/kg	6.00		101	88.2-128	1.90	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0468		mg/kg	0.0500		93.6	71.5-134			

Batch 3080240 - Volatiles**Blank (3080240-BLK1)**

Prepared: 02-Aug-23 Analyzed: 04-Aug-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080240 - Volatiles**Blank (3080240-BLK1)**

Prepared: 02-Aug-23 Analyzed: 04-Aug-23

Total BTEX	ND	0.300	mg/kg							
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Surrogate: 4-Bromofluorobenzene (PID)	0.0572		mg/kg	0.0500		114	71.5-134			
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LCS (3080240-BS1)

Prepared: 02-Aug-23 Analyzed: 04-Aug-23

Benzene	2.00	0.050	mg/kg	2.00		99.9	82.8-130			
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Toluene	1.92	0.050	mg/kg	2.00		95.9	86-128			
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Ethylbenzene	1.96	0.050	mg/kg	2.00		97.9	85.9-128			
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m,p-Xylene	3.88	0.100	mg/kg	4.00		97.0	89-129			
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o-Xylene	1.89	0.050	mg/kg	2.00		94.6	86.1-125			
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Total Xylenes	5.77	0.150	mg/kg	6.00		96.2	88.2-128			
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Surrogate: 4-Bromofluorobenzene (PID)	0.0514		mg/kg	0.0500		103	71.5-134			
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LCS Dup (3080240-BS1)

Prepared: 02-Aug-23 Analyzed: 04-Aug-23

Benzene	1.99	0.050	mg/kg	2.00		99.5	82.8-130	0.342	15.8	
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Toluene	1.88	0.050	mg/kg	2.00		94.2	86-128	1.79	15.9	
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Ethylbenzene	1.95	0.050	mg/kg	2.00		97.4	85.9-128	0.526	16	
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m,p-Xylene	3.86	0.100	mg/kg	4.00		96.5	89-129	0.478	16.2	
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o-Xylene	1.90	0.050	mg/kg	2.00		94.9	86.1-125	0.346	16.7	
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Total Xylenes	5.76	0.150	mg/kg	6.00		96.0	88.2-128	0.207	16.3	
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Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500		104	71.5-134			
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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080206 - General Prep - Organics**Blank (3080206-BLK1)**

Prepared & Analyzed: 02-Aug-23

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0		96.3		48.2-134	
Surrogate: 1-Chlorooctadecane	55.4		mg/kg	50.0		111		49.1-148	

LCS (3080206-BS1)

Prepared & Analyzed: 02-Aug-23

GRO C6-C10	194	10.0	mg/kg	200		96.9		66.4-123	
DRO >C10-C28	203	10.0	mg/kg	200		101		66.5-118	
Total TPH C6-C28	397	10.0	mg/kg	400		99.2		77.6-123	
Surrogate: 1-Chlorooctane	55.6		mg/kg	50.0		111		48.2-134	
Surrogate: 1-Chlorooctadecane	61.5		mg/kg	50.0		123		49.1-148	

LCS Dup (3080206-BS1)

Prepared & Analyzed: 02-Aug-23

GRO C6-C10	200	10.0	mg/kg	200		100		66.4-123	3.10	17.7
DRO >C10-C28	202	10.0	mg/kg	200		101		66.5-118	0.602	21
Total TPH C6-C28	402	10.0	mg/kg	400		100		77.6-123	1.22	18.5
Surrogate: 1-Chlorooctane	53.9		mg/kg	50.0		108		48.2-134		
Surrogate: 1-Chlorooctadecane	62.2		mg/kg	50.0		124		49.1-148		

Batch 3080208 - General Prep - Organics**Blank (3080208-BLK1)**

Prepared: 02-Aug-23 Analyzed: 03-Aug-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	54.8		mg/kg	50.0		110		48.2-134		
Surrogate: 1-Chlorooctadecane	63.1		mg/kg	50.0		126		49.1-148		

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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
2617 W MARLAND
HOBBS NM, 88240

Project: APOLLO CHILI VERDE WATER TRA
Project Number: 18228
Project Manager: LANCE CRENSHAW
Fax To:

Reported:
07-Oct-24 08:24

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3080208 - General Prep - Organics**LCS (3080208-BS1)**

Prepared: 02-Aug-23 Analyzed: 03-Aug-23

GRO C6-C10	194	10.0	mg/kg	200		97.1	66.4-123		
DRO >C10-C28	224	10.0	mg/kg	200		112	66.5-118		
Total TPH C6-C28	419	10.0	mg/kg	400		105	77.6-123		
Surrogate: 1-Chlorooctane	64.2		mg/kg	50.0		128	48.2-134		
Surrogate: 1-Chlorooctadecane	71.3		mg/kg	50.0		143	49.1-148		

LCS Dup (3080208-BS1)

Prepared: 02-Aug-23 Analyzed: 03-Aug-23

GRO C6-C10	197	10.0	mg/kg	200		98.3	66.4-123	1.20	17.7
DRO >C10-C28	223	10.0	mg/kg	200		111	66.5-118	0.693	21
Total TPH C6-C28	419	10.0	mg/kg	400		105	77.6-123	0.192	18.5
Surrogate: 1-Chlorooctane	60.9		mg/kg	50.0		122	48.2-134		
Surrogate: 1-Chlorooctadecane	70.5		mg/kg	50.0		141	49.1-148		

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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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Mewbourne Oil Company				BILL TO				ANALYSIS REQUEST													
Project Manager: Lance Crenshaw				P.O. #: #																	
Address: 2617 W Marland Blvd				Company: Etch Environmental																	
City: Hobbs		State: NM		Zip: 88240		Attn: Lance Crenshaw															
Phone #: 575-396-2378		Fax #: 575-396-1429		Address: 2617 W Marland Blvd		City: Hobbs															
Project #: 18228		Project Owner: Mewbourne Oil Company		State: NM		Zip: 88240															
Project Name: Apollo Chile Verde Water Transfer Line				Phone #: 575-396-2378																	
Project Location: UL/ J Sec 15 T21S - R27E				Fax #: 575-396-1429																	
Sampler Name: Dominic Casarez																					
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		GRAB OR (COMP. #)		MATRIX		PRESERV.		SAMPLING		Chloride		TPH		BTEX 8021					
11233978																					
SW 43				C 1		X		X		7/27/23		X		X		X					
SW 44				C 1		X		X		7/27/23		X		X		X					
SW 45				C 1		X		X		7/27/23		X		X		X					
SW 46				C 1		X		X		7/27/23		X		X		X					
SW 47				C 1		X		X		7/27/23		X		X		X					
SW 58 48 *				C 1		X		X		7/27/23		X		X		X					
WW 76 15 *				C 1		X		X		7/27/23		X		X		X					
EW 12				C 1		X		X		7/27/23		X		X		X					
NW 46				C 1		X		X		7/27/23		X		X		X					
NW 47				C 1		X		X		7/27/23		X		X		X					

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Relinquished By:		Date: 7/28		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Damaran Kendrick		Time: 1040		Sheri Cisneros		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: Email results to lance@etechenv.com			
		Time:				PM@etechenv.com			
Delivered By: (Circle One)		#140		Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: -0.9c				Cool Intact		(Initials)			
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		DC			
				<input type="checkbox"/> Yes <input type="checkbox"/> No					

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476
FORM-006 R 2.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476
FORM-006 R 2.0



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

August 07, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 07/28/23 16:45.

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/28/2023
 Reported: 08/07/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SW 49 (H234007-01)

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	08/05/2023	ND	2.13	107	2.00	11.5	
Toluene*	<0.050	0.050	08/05/2023	ND	2.16	108	2.00	9.37	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.23	111	2.00	9.66	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	6.75	113	6.00	9.01	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/04/2023	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	08/04/2023	ND	178	89.2	200	9.09	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	188	94.0	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane 70.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/28/2023
 Reported: 08/07/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SW 50 (H234007-02)

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	08/05/2023	ND	2.13	107	2.00	11.5		
Toluene*	<0.050	0.050	08/05/2023	ND	2.16	108	2.00	9.37		
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.23	111	2.00	9.66		
Total Xylenes*	<0.150	0.150	08/05/2023	ND	6.75	113	6.00	9.01		
Total BTEX	<0.300	0.300	08/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/04/2023	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	08/04/2023	ND	178	89.2	200	9.09	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	188	94.0	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane 68.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/28/2023
 Reported: 08/07/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NW 52 (H234007-03)

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	08/05/2023	ND	2.13	107	2.00	11.5	
Toluene*	<0.050	0.050	08/05/2023	ND	2.16	108	2.00	9.37	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.23	111	2.00	9.66	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	6.75	113	6.00	9.01	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

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	08/04/2023	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	08/04/2023	ND	178	89.2	200	9.09	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	188	94.0	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane 68.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.9 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/28/2023
 Reported: 08/07/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: EW 14 (H234007-04)

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	08/05/2023	ND	2.13	107	2.00	11.5		
Toluene*	<0.050	0.050	08/05/2023	ND	2.16	108	2.00	9.37		
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.23	111	2.00	9.66		
Total Xylenes*	<0.150	0.150	08/05/2023	ND	6.75	113	6.00	9.01		
Total BTEX	<0.300	0.300	08/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	08/04/2023	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	08/04/2023	ND	178	89.2	200	9.09	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	188	94.0	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/28/2023
 Reported: 08/07/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: EW 13 (H234007-05)

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	08/05/2023	ND	2.13	107	2.00	11.5		
Toluene*	<0.050	0.050	08/05/2023	ND	2.16	108	2.00	9.37		
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.23	111	2.00	9.66		
Total Xylenes*	<0.150	0.150	08/05/2023	ND	6.75	113	6.00	9.01		
Total BTEX	<0.300	0.300	08/05/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	08/04/2023	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	08/04/2023	ND	178	89.2	200	9.09	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	188	94.0	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.8 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/28/2023
 Reported: 08/07/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WW 16 (H234007-06)

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	08/05/2023	ND	2.13	107	2.00	11.5	
Toluene*	<0.050	0.050	08/05/2023	ND	2.16	108	2.00	9.37	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.23	111	2.00	9.66	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	6.75	113	6.00	9.01	
Total BTX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/04/2023	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	08/04/2023	ND	178	89.2	200	9.09	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	188	94.0	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 07/28/2023
 Reported: 08/07/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 07/28/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WW 17 (H234007-07)

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	08/05/2023	ND	2.13	107	2.00	11.5	
Toluene*	<0.050	0.050	08/05/2023	ND	2.16	108	2.00	9.37	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	2.23	111	2.00	9.66	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	6.75	113	6.00	9.01	
Total BTEX	<0.300	0.300	08/05/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	08/04/2023	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	08/04/2023	ND	178	89.2	200	9.09	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	188	94.0	200	11.6	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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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", 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

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager: <u>Lane Crenshaw</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 West Marland				Company: <u>McMurry</u>																					
City: Hobbs State: NM Zip: 88240				Attn: <u>Jeff Broom</u>																					
Phone #: (575) 264-9884 Fax #:				Address: <u>4801 Busp Blvd</u>																					
Project #: <u>18228</u> Project Owner: <u>McMurry</u>				City: <u>Hobbs</u>																					
Project Name: <u>Chile Verde 23rd Fed Com 716 H</u>				State: <u>NM</u> Zip: <u>88241</u>																					
Project Location: <u>Aural Carlsbad</u>				Phone #:																					
Sampler Name: <u>Dominic Casarez</u>				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		GRAB OR (COMP. # CONTAINERS)		MATRIX		PRESERV.		SAMPLING															
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER		ACID/BASE ICE / COOL OTHER		DATE		TIME													
<u>H234007</u>																									
<u>DC 1</u>		<u>SW49</u>		<u>1</u>				<u>✓</u>		<u>7-28</u>				<u>✓</u>											
<u>2</u>		<u>SW50</u>																							
<u>3</u>		<u>NW52</u>																							
<u>4</u>		<u>EW14</u>																							
<u>5</u>		<u>EW13</u>																							
<u>16</u>		<u>WW16</u>																							
<u>7</u>		<u>WW17</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 profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																									
Relinquished By: <u>[Signature]</u>				Date: <u>7-28</u>		Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:															
				Time: <u>16:45</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:															
Relinquished By:				Date:		Received By:				REMARKS:															
				Time:																					
Delivered By: (Circle One) <u>#140</u>				Time: <u>5:40</u>		Sample Condition: <u>Cool Intact</u>				CHECKED BY: <u>[Signature]</u>															
Sampler - UPS - Bus - Other:						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No																			

Please email copy of COC and results to pm@etechenv.com.



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

August 07, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 08/01/23 16:40.

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	CHILI VERDE 23/24 FED COM 716 H	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL CARLSBAD, NM		

Sample ID: TT 1 @ 4 (H234065-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9300	16.0	08/07/2023	ND	416	104	400	3.77	

Sample ID: TT 1 @ 6 (H234065-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7460	16.0	08/07/2023	ND	416	104	400	3.77	

Sample ID: TT 1 @ 8 (H234065-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	08/07/2023	ND	416	104	400	3.77	

Sample ID: TT 1 @ 10 (H234065-04)

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	08/07/2023	ND	416	104	400	3.77	

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	CHILI VERDE 23/24 FED COM 716 H	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL CARLSBAD, NM		

Sample ID: TT 2 @ 4 (H234065-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11700	16.0	08/07/2023	ND	432	108	400	0.00	QM-07	

Sample ID: TT 2 @ 6 (H234065-06)

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	08/07/2023	ND	432	108	400	0.00		

Sample ID: TT 2 @ 8 (H234065-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	08/07/2023	ND	432	108	400	0.00	

Sample ID: TT 2 @ 10 (H234065-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/07/2023	ND	432	108	400	0.00		

Sample ID: TT 3 @ 4 (H234065-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18800	16.0	08/07/2023	ND	432	108	400	0.00	

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/01/2023	Sampling Date:	08/01/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	CHILI VERDE 23/24 FED COM 716 H	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL CARLSBAD, NM		

Sample ID: TT 3 @ 6 (H234065-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	08/07/2023	ND	432	108	400	0.00		

Sample ID: TT 3 @ 8 (H234065-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	08/07/2023	ND	432	108	400	0.00		

Sample ID: TT 3 @ 10 (H234065-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4200	16.0	08/07/2023	ND	432	108	400	0.00	

Sample ID: TT 3 @ 12 (H234065-13)

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	08/07/2023	ND	432	108	400	0.00	

Sample ID: TT 4 @ 4 (H234065-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/07/2023	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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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 6 of 7

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST													
Project Manager: Lane Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-between;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>													
Address: 2617 West Marland				Company: Newbourn																	
City: Hobbs		State: NM		Zip: 88240		Attn: Jeff Brown															
Phone #: (575) 264-9884		Fax #:		Address: 4801 Bosp Blvd																	
Project #: 18228		Project Owner: Newbourn		City: Hobbs																	
Project Name: Chile Verde 23/24 Fed Com 716 H				State: NM Zip: 88240																	
Project Location: Rural Carlsbad				Phone #:																	
Sampler Name: Dominic Cabarez				Fax #:																	

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
GROUNDWATER	WASTEWATER					SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER								
		11234015	TT1 @ 4	G	1									8-1					
			TT1 @ 6																
			TT1 @ 8																
			TT1 @ 10																
			TT2 @ 4																
			TT2 @ 6																
			TT2 @ 8																
			TT2 @ 10																
			TT3 @ 4																
			TT3 @ 6																

Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: 	Date: 8-1 Time: 1640	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: Please email copy of COC and results to pm@etechenv.com.
Relinquished By:	Date: Time:	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) V.O.	

FORM-006
Revision 1.0

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

August 11, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 08/07/23 16:50.

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
LANCE CRENSHAW
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received: 08/07/2023
Reported: 08/11/2023
Project Name: CHILI VERDE 23/24 FED COM 716 H
Project Number: 18228
Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/07/2023
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: EW 12 B (H234198-01)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/09/2023	ND	416	104	400	3.77	

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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager: Lane Crenshaw				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																	
Address: 2617 West Marland				Company: Newbourn																					
City: Hobbs State: NM Zip: 88240				Attn: Jeff Broo																					
Phone #: (575) 264-9884 Fax #:				Address: 4801 Busp Blvd																					
Project #: 18228 Project Owner: Newbourn				City: Hobbs																					
Project Name: Chile Verde 23rd Fed Com T16H				State: NM Zip: 88240																					
Project Location: Rural Carlisle				Phone #:																					
Sampler Name: Dominic Casarez				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		MATRIX		PRESERV		SAMPLING																	
H234198		EW12B		GROUNDWATER		ACID/BASE:		DATE		TIME															
				WASTEWATER		ICE / COOL																			
				SOIL		OTHER:																			
				SLUDGE																					
				OTHER:																					
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.																									
Relinquished By: [Signature]				Date: 8-7-23				Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:													
Time: 1650												Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:													
Relinquished By:				Date:				Received By:				REMARKS:													
Time:																									
Delivered By: (Circle One)				#140				Sample Condition:				CHECKED BY:													
Sampler - UPS - Bus - Other:				2850				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No				[Signature]													
Please email copy of COC and results to pm@etechenv.com.																									



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

August 23, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 08/17/23 16:20.

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 1 @ 4 (H234480-01)

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	08/22/2023	ND	1.85	92.4	2.00	1.95	
Toluene*	<0.050	0.050	08/22/2023	ND	1.86	92.9	2.00	0.874	
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	1.96	97.8	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/22/2023	ND	5.83	97.1	6.00	1.14	
Total BTX	<0.300	0.300	08/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15400	16.0	08/22/2023	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	08/22/2023	ND	165	82.4	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/22/2023	ND	165	82.3	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	08/22/2023	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 2 @ 4 (H234480-02)

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	08/22/2023	ND	1.85	92.4	2.00	1.95		
Toluene*	<0.050	0.050	08/22/2023	ND	1.86	92.9	2.00	0.874		
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	1.96	97.8	2.00	1.26		
Total Xylenes*	<0.150	0.150	08/22/2023	ND	5.83	97.1	6.00	1.14		
Total BTEX	<0.300	0.300	08/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	08/22/2023	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	08/22/2023	ND	165	82.4	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/22/2023	ND	165	82.3	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	08/22/2023	ND					

Surrogate: 1-Chlorooctane 67.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.3 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 3 @ 4 (H234480-03)

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	08/22/2023	ND	1.85	92.4	2.00	1.95		
Toluene*	<0.050	0.050	08/22/2023	ND	1.86	92.9	2.00	0.874		
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	1.96	97.8	2.00	1.26		
Total Xylenes*	<0.150	0.150	08/22/2023	ND	5.83	97.1	6.00	1.14		
Total BTEX	<0.300	0.300	08/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18000	16.0	08/22/2023	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	08/22/2023	ND	165	82.4	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/22/2023	ND	165	82.3	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	08/22/2023	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 4 @ 4 (H234480-04)

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	08/22/2023	ND	1.85	92.4	2.00	1.95		
Toluene*	<0.050	0.050	08/22/2023	ND	1.86	92.9	2.00	0.874		
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	1.96	97.8	2.00	1.26		
Total Xylenes*	<0.150	0.150	08/22/2023	ND	5.83	97.1	6.00	1.14		
Total BTX	<0.300	0.300	08/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7520	16.0	08/22/2023	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	08/22/2023	ND	165	82.4	200	4.27	
DRO >C10-C28*	<10.0	10.0	08/22/2023	ND	165	82.3	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	08/22/2023	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 5 @ 4 (H234480-05)

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	08/22/2023	ND	1.85	92.4	2.00	1.95		
Toluene*	<0.050	0.050	08/22/2023	ND	1.86	92.9	2.00	0.874		
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	1.96	97.8	2.00	1.26		
Total Xylenes*	<0.150	0.150	08/22/2023	ND	5.83	97.1	6.00	1.14		
Total BTEX	<0.300	0.300	08/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15200	16.0	08/22/2023	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	08/21/2023	ND	182	91.2	200	6.65	
DRO >C10-C28*	<10.0	10.0	08/21/2023	ND	173	86.3	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	08/21/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 6 @ 4 (H234480-06)

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	08/22/2023	ND	1.85	92.4	2.00	1.95		
Toluene*	<0.050	0.050	08/22/2023	ND	1.86	92.9	2.00	0.874		
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	1.96	97.8	2.00	1.26		
Total Xylenes*	<0.150	0.150	08/22/2023	ND	5.83	97.1	6.00	1.14		
Total BTEX	<0.300	0.300	08/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14400	16.0	08/22/2023	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	08/21/2023	ND	182	91.2	200	6.65	
DRO >C10-C28*	<10.0	10.0	08/21/2023	ND	173	86.3	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	08/21/2023	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 7 @ 4 (H234480-07)

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	08/22/2023	ND	1.85	92.4	2.00	1.95		
Toluene*	<0.050	0.050	08/22/2023	ND	1.86	92.9	2.00	0.874		
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	1.96	97.8	2.00	1.26		
Total Xylenes*	<0.150	0.150	08/22/2023	ND	5.83	97.1	6.00	1.14		
Total BTEX	<0.300	0.300	08/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	19600	16.0	08/22/2023	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	08/21/2023	ND	182	91.2	200	6.65	
DRO >C10-C28*	<10.0	10.0	08/21/2023	ND	173	86.3	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	08/21/2023	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 8 @ 4 (H234480-08)

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	08/22/2023	ND	1.85	92.4	2.00	1.95	
Toluene*	<0.050	0.050	08/22/2023	ND	1.86	92.9	2.00	0.874	
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	1.96	97.8	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/22/2023	ND	5.83	97.1	6.00	1.14	
Total BTEX	<0.300	0.300	08/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4800	16.0	08/22/2023	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	08/22/2023	ND	182	91.2	200	6.65	
DRO >C10-C28*	<10.0	10.0	08/22/2023	ND	173	86.3	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	08/22/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 9 @ 4 (H234480-09)

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	08/22/2023	ND	1.85	92.4	2.00	1.95	
Toluene*	<0.050	0.050	08/22/2023	ND	1.86	92.9	2.00	0.874	
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	1.96	97.8	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/22/2023	ND	5.83	97.1	6.00	1.14	
Total BTEX	<0.300	0.300	08/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	08/22/2023	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	08/22/2023	ND	182	91.2	200	6.65	
DRO >C10-C28*	<10.0	10.0	08/22/2023	ND	173	86.3	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	08/22/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 10 @ 4 (H234480-10)

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	08/22/2023	ND	1.85	92.4	2.00	1.95		
Toluene*	<0.050	0.050	08/22/2023	ND	1.86	92.9	2.00	0.874		
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	1.96	97.8	2.00	1.26		
Total Xylenes*	<0.150	0.150	08/22/2023	ND	5.83	97.1	6.00	1.14		
Total BTEX	<0.300	0.300	08/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20400	16.0	08/22/2023	ND	400	100	400	7.69	QM-07	

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	08/22/2023	ND	182	91.2	200	6.65	
DRO >C10-C28*	<10.0	10.0	08/22/2023	ND	173	86.3	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	08/22/2023	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 11 @ 4 (H234480-11)

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	08/22/2023	ND	1.85	92.4	2.00	1.95		
Toluene*	<0.050	0.050	08/22/2023	ND	1.86	92.9	2.00	0.874		
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	1.96	97.8	2.00	1.26		
Total Xylenes*	<0.150	0.150	08/22/2023	ND	5.83	97.1	6.00	1.14		
Total BTEX	<0.300	0.300	08/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	28400	16.0	08/22/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2023	ND	182	91.2	200	6.65	
DRO >C10-C28*	<10.0	10.0	08/22/2023	ND	173	86.3	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	08/22/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 12 @ 4 (H234480-12)

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	08/22/2023	ND	1.85	92.4	2.00	1.95		
Toluene*	<0.050	0.050	08/22/2023	ND	1.86	92.9	2.00	0.874		
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	1.96	97.8	2.00	1.26		
Total Xylenes*	<0.150	0.150	08/22/2023	ND	5.83	97.1	6.00	1.14		
Total BTEX	<0.300	0.300	08/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	08/22/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2023	ND	182	91.2	200	6.65	
DRO >C10-C28*	<10.0	10.0	08/22/2023	ND	173	86.3	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	08/22/2023	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 13 @ 4 (H234480-13)

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	08/22/2023	ND	1.85	92.4	2.00	1.95	
Toluene*	<0.050	0.050	08/22/2023	ND	1.86	92.9	2.00	0.874	
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	1.96	97.8	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/22/2023	ND	5.83	97.1	6.00	1.14	
Total BTEX	<0.300	0.300	08/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	08/22/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2023	ND	182	91.2	200	6.65	
DRO >C10-C28*	<10.0	10.0	08/22/2023	ND	173	86.3	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	08/22/2023	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 14 @ 4 (H234480-14)

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	08/22/2023	ND	1.85	92.4	2.00	1.95		
Toluene*	<0.050	0.050	08/22/2023	ND	1.86	92.9	2.00	0.874		
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	1.96	97.8	2.00	1.26		
Total Xylenes*	<0.150	0.150	08/22/2023	ND	5.83	97.1	6.00	1.14		
Total BTEX	<0.300	0.300	08/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	38800	16.0	08/22/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2023	ND	182	91.2	200	6.65	
DRO >C10-C28*	<10.0	10.0	08/22/2023	ND	173	86.3	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	08/22/2023	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 15 @ 4 (H234480-15)

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	08/22/2023	ND	1.85	92.4	2.00	1.95		
Toluene*	<0.050	0.050	08/22/2023	ND	1.86	92.9	2.00	0.874		
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	1.96	97.8	2.00	1.26		
Total Xylenes*	<0.150	0.150	08/22/2023	ND	5.83	97.1	6.00	1.14		
Total BTEX	<0.300	0.300	08/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	31600	16.0	08/22/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2023	ND	182	91.2	200	6.65	
DRO >C10-C28*	<10.0	10.0	08/22/2023	ND	173	86.3	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	08/22/2023	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 16 @ 4 (H234480-16)

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	08/22/2023	ND	1.85	92.4	2.00	1.95		
Toluene*	<0.050	0.050	08/22/2023	ND	1.86	92.9	2.00	0.874		
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	1.96	97.8	2.00	1.26		
Total Xylenes*	<0.150	0.150	08/22/2023	ND	5.83	97.1	6.00	1.14		
Total BTEX	<0.300	0.300	08/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	44000	16.0	08/22/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2023	ND	182	91.2	200	6.65	
DRO >C10-C28*	<10.0	10.0	08/22/2023	ND	173	86.3	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	08/22/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 17 @ 4 (H234480-17)

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	08/22/2023	ND	1.85	92.4	2.00	1.95		
Toluene*	<0.050	0.050	08/22/2023	ND	1.86	92.9	2.00	0.874		
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	1.96	97.8	2.00	1.26		
Total Xylenes*	<0.150	0.150	08/22/2023	ND	5.83	97.1	6.00	1.14		
Total BTEX	<0.300	0.300	08/22/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	37600	16.0	08/22/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2023	ND	182	91.2	200	6.65	
DRO >C10-C28*	<10.0	10.0	08/22/2023	ND	173	86.3	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	08/22/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 18 @ 4 (H234480-18)

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	08/22/2023	ND	1.94	96.8	2.00	0.974	QR-03
Toluene*	<0.050	0.050	08/22/2023	ND	2.20	110	2.00	2.49	QR-03
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	2.26	113	2.00	3.79	
Total Xylenes*	<0.150	0.150	08/22/2023	ND	6.80	113	6.00	3.89	QR-03
Total BTEX	<0.300	0.300	08/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/22/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2023	ND	182	91.2	200	6.65	
DRO >C10-C28*	<10.0	10.0	08/22/2023	ND	173	86.3	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	08/22/2023	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 19 @ 4 (H234480-19)

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	08/22/2023	ND	1.94	96.8	2.00	0.974	
Toluene*	<0.050	0.050	08/22/2023	ND	2.20	110	2.00	2.49	
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	2.26	113	2.00	3.79	
Total Xylenes*	<0.150	0.150	08/22/2023	ND	6.80	113	6.00	3.89	
Total BTEX	<0.300	0.300	08/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

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	08/22/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2023	ND	182	91.2	200	6.65	
DRO >C10-C28*	<10.0	10.0	08/22/2023	ND	173	86.3	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	08/22/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/17/2023
 Reported: 08/23/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FT 20 @ 4 (H234480-20)

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	08/22/2023	ND	1.94	96.8	2.00	0.974	
Toluene*	<0.050	0.050	08/22/2023	ND	2.20	110	2.00	2.49	
Ethylbenzene*	<0.050	0.050	08/22/2023	ND	2.26	113	2.00	3.79	
Total Xylenes*	<0.150	0.150	08/22/2023	ND	6.80	113	6.00	3.89	
Total BTEX	<0.300	0.300	08/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/22/2023	ND	400	100	400	7.69	

TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/22/2023	ND	182	91.2	200	6.65		
DRO >C10-C28*	<10.0	10.0	08/22/2023	ND	173	86.3	200	2.04		
EXT DRO >C28-C36	<10.0	10.0	08/22/2023	ND						

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

Cardinal Laboratories

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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



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO		ANALYSIS REQUEST																			
Project Manager: <i>Lane Crenshaw</i>				P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 West Marland				Company: <i>Newborn</i>																					
City: Hobbs		State: NM Zip: 88240		Attn: <i>Jeff Brown</i>																					
Phone #: (575) 264-9884		Fax #:		Address:																					
Project #: <i>18228</i>		Project Owner: <i>Newborn</i>		City: <i>Hobbs</i>																					
Project Name: <i>Chile Verde 23124 Fed Conn 710 H</i>				State: <i>NM</i> Zip:																					
Project Location: <i>Rural Carlshad NM</i>				Phone #:																					
Sampler Name: <i>Dominic Casarez</i>				Fax #:																					
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																	
Lab I.D.		Sample I.D.		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
<i>H234480</i>																									
<i>DO</i>		<i>1 FT 1 @ 4</i>																							
		<i>2 FT 2 @ 4</i>																							
		<i>3 FT 3 @ 4</i>																							
		<i>4 FT 4 @ 4</i>																							
		<i>5 FT 5 @ 4</i>																							
		<i>6 FT 6 @ 4</i>																							
		<i>7 FT 7 @ 4</i>																							
		<i>8 FT 8 @ 4</i>																							
		<i>9 FT 9 @ 4</i>																							
		<i>10 FT 10 @ 4</i>																							

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Don CH</i>	Date: <i>8-17-23</i>	Received By: <i>Tamara Eldridge</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Time: <i>1620</i>	Sample Condition: <i>#140</i>	CHECKED BY: (Initials) <i>DO</i>	
Sampler - UPS - Bus - Other: <i>4.8c</i>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

REMARKS: Please email copy of COC and results to pm@etechenv.com.



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Lane Crepsnow				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: 2617 West Marland				Company: Mewbourn															
City: Hobbs State: NM Zip: 88240				Attn: Jeff Broom															
Phone #: (575) 264-9884 Fax #:				Address:															
Project #: 18228 Project Owner: Mewbourn				City: Hobbs															
Project Name: Chile Verde 23/24 Fed com 7164				State: NM Zip:															
Project Location: Rural Carlisbad				Phone #:															
Sampler Name: Dominic Casarez				Fax #:															

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.	SAMPLING		DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE: ICE / COOL OTHER:						
H234480	DC 11	ft 11 @ 4	C 1										8-17				
	12	ft 12 @ 4															
	13	ft 13 @ 4															
	14	ft 14 @ 4															
	15	ft 15 @ 4															
	16	ft 16 @ 4															
	17	ft 17 @ 4															
	18	ft 18 @ 4															
	19	ft 19 @ 4															
	20	ft 20 @ 4															

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Relinquished By: Date: 8-17-25 Time: 1620	Received By: Date: Time:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS: 1 Please email copy of COC and results to pm@etechenv.com.
Relinquished By: Date: Time:	Received By:	

Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4.8°C	Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials)
---	---	----------------------------------



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

August 28, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 08/22/23 14:25.

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/22/2023
 Reported: 08/28/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 11.5 (H234565-01)

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	08/25/2023	ND	1.89	94.5	2.00	1.65	
Toluene*	<0.050	0.050	08/25/2023	ND	1.88	94.2	2.00	0.877	
Ethylbenzene*	<0.050	0.050	08/25/2023	ND	1.97	98.3	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/25/2023	ND	5.83	97.1	6.00	0.914	
Total BTX	<0.300	0.300	08/25/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

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	08/24/2023	ND	432	108	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	08/23/2023	ND	147	73.7	200	2.66	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	163	81.5	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 08/22/2023
 Reported: 08/28/2023
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/22/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 9.5 (H234565-02)

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	08/25/2023	ND	1.89	94.5	2.00	1.65		
Toluene*	<0.050	0.050	08/25/2023	ND	1.88	94.2	2.00	0.877		
Ethylbenzene*	<0.050	0.050	08/25/2023	ND	1.97	98.3	2.00	1.47		
Total Xylenes*	<0.150	0.150	08/25/2023	ND	5.83	97.1	6.00	0.914		
Total BTEX	<0.300	0.300	08/25/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/24/2023	ND	432	108	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	08/23/2023	ND	147	73.7	200	2.66	
DRO >C10-C28*	<10.0	10.0	08/23/2023	ND	163	81.5	200	3.18	
EXT DRO >C28-C36	<10.0	10.0	08/23/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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
LANCE CRENSHAW
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received: 08/22/2023
Reported: 08/28/2023
Project Name: CHILI VERDE 23/24 FED COM 716 H
Project Number: 18228
Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/22/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: EW 12 B (H234565-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	08/24/2023	ND	432	108	400	3.77		

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

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

[illegible]



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

September 05, 2023

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 08/30/23 16:54.

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
LANCE CRENSHAW
2617 W MARLAND
HOBBS NM, 88240
Fax To:

Received: 08/30/2023
Reported: 09/05/2023
Project Name: CHILI VERDE 23/24 FED COM 716 H
Project Number: 18228
Project Location: MEWBOURNE - RURAL CARLSBAD, NM

Sampling Date: 08/30/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: EW 12 C (H234728-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/31/2023	ND	416	104	400	3.77	

Cardinal Laboratories

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

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", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

Company Name: <u>Lane Crenshaw Etch</u>				BILL TO		ANALYSIS REQUEST																							
Project Manager: <u>Lane Crenshaw</u>				P.O. #:																									
Address: <u>C 3100</u>				Company: <u>Newtown</u>																									
City: <u>Livingston</u>		State: <u>NM</u>		Attn: <u>Jeff Brown</u>																									
Phone #:		Fax #:		Address:																									
Project #:		Project Owner: <u>Newtown</u>		City: <u>Hobbs</u>																									
Project Name: <u>Chiliverte 23/24 Fed Com 716H</u>				State: <u>NM</u>												Zip:													
Project Location: <u>Rural Eddy Co</u>				Phone #:																									
Sampler Name: <u>Dominick Cabarez</u>				Fax #:																									
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
DL		EW12C		C		1						✓								✓				8-30					

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Relinquished By: <u>[Signature]</u>		Date: <u>8-30</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <u>15:54</u>				All Results are emailed. Please provide Email address:			
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:							
Delivered By: (Circle One)		Observed Temp. °C <u>23°C</u>		Sample Condition: <u>Cool/Intact</u>		CHECKED BY: <u>[Signature]</u>		Turnaround Time: <u>Standard</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>#140</u>		Cool/Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact		Observed Temp. °C	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No		Corrected Temp. °C	
				<input type="checkbox"/> No <input type="checkbox"/> No					

FORM-000-R 3.4 07/11/25

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsonm.com



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

April 07, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 04/01/25 14:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 1 @ 5' (H251939-01)

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	04/03/2025	ND	1.90	95.2	2.00	9.97		
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79		
Total BTEx	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1120	16.0	04/02/2025	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 89.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.9 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 1 @ 6' (H251939-02)

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	04/03/2025	ND	1.90	95.2	2.00	9.97		
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	04/02/2025	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 91.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.3 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 3 @ 5' (H251939-03)

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	04/03/2025	ND	1.90	95.2	2.00	9.97		
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4800	16.0	04/02/2025	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 85.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 3 @ 6' (H251939-04)

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	04/03/2025	ND	1.90	95.2	2.00	9.97		
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5200	16.0	04/02/2025	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.1 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 5 @ 5' (H251939-05)

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	04/03/2025	ND	1.90	95.2	2.00	9.97		
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/02/2025	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 91.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.9 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 5 @ 6' (H251939-06)

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	04/03/2025	ND	1.90	95.2	2.00	9.97	
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79	
Total BTEX	<0.300	0.300	04/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	04/02/2025	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.1 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 6 @ 5' (H251939-07)

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	04/03/2025	ND	1.90	95.2	2.00	9.97		
Toluene*	<0.050	0.050	04/03/2025	ND	1.96	97.9	2.00	7.60		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.97	98.4	2.00	6.72		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.26	104	6.00	6.79		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4320	16.0	04/02/2025	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.9 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 6 @ 6' (H251939-08)

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	04/03/2025	ND	1.95	97.5	2.00	9.28		
Toluene*	<0.050	0.050	04/03/2025	ND	2.04	102	2.00	6.21		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.29	114	2.00	5.36		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.96	116	6.00	5.37		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	04/02/2025	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 83.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.7 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 7 @ 5' (H251939-09)

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	04/03/2025	ND	1.95	97.5	2.00	9.28		
Toluene*	<0.050	0.050	04/03/2025	ND	2.04	102	2.00	6.21		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.29	114	2.00	5.36		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.96	116	6.00	5.37		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	04/02/2025	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.3 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 7 @ 6' (H251939-10)

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	04/03/2025	ND	1.95	97.5	2.00	9.28		
Toluene*	<0.050	0.050	04/03/2025	ND	2.04	102	2.00	6.21		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.29	114	2.00	5.36		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.96	116	6.00	5.37		
Total BTX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	04/02/2025	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 10 @ 5' (H251939-11)

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	04/03/2025	ND	1.95	97.5	2.00	9.28	
Toluene*	<0.050	0.050	04/03/2025	ND	2.04	102	2.00	6.21	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.29	114	2.00	5.36	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.96	116	6.00	5.37	
Total BTEX	<0.300	0.300	04/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	04/02/2025	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.8 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 10 @ 6' (H251939-12)

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	04/03/2025	ND	1.95	97.5	2.00	9.28		
Toluene*	<0.050	0.050	04/03/2025	ND	2.04	102	2.00	6.21		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.29	114	2.00	5.36		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.96	116	6.00	5.37		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	04/02/2025	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.5 % 40.6-153

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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 11 @ 5' (H251939-13)

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	04/03/2025	ND	1.95	97.5	2.00	9.28		
Toluene*	<0.050	0.050	04/03/2025	ND	2.04	102	2.00	6.21		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.29	114	2.00	5.36		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.96	116	6.00	5.37		
Total BTX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 83.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 11 @ 6' (H251939-14)

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	04/03/2025	ND	1.95	97.5	2.00	9.28		
Toluene*	<0.050	0.050	04/03/2025	ND	2.04	102	2.00	6.21		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.29	114	2.00	5.36		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.96	116	6.00	5.37		
Total BTX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.9 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 14 @ 5' (H251939-15)

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	04/03/2025	ND	1.95	97.5	2.00	9.28		
Toluene*	<0.050	0.050	04/03/2025	ND	2.04	102	2.00	6.21		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.29	114	2.00	5.36		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.96	116	6.00	5.37		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 90.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 14 @ 6' (H251939-16)

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	04/03/2025	ND	1.95	97.5	2.00	9.28		
Toluene*	<0.050	0.050	04/03/2025	ND	2.04	102	2.00	6.21		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.29	114	2.00	5.36		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.96	116	6.00	5.37		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.4 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 15 @ 5' (H251939-17)

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	04/03/2025	ND	1.95	97.5	2.00	9.28		
Toluene*	<0.050	0.050	04/03/2025	ND	2.04	102	2.00	6.21		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.29	114	2.00	5.36		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.96	116	6.00	5.37		
Total BTX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 15 @ 6' (H251939-18)

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	04/03/2025	ND	1.95	97.5	2.00	9.28	
Toluene*	<0.050	0.050	04/03/2025	ND	2.04	102	2.00	6.21	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.29	114	2.00	5.36	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.96	116	6.00	5.37	
Total BTEX	<0.300	0.300	04/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.7 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 16 @ 5' (H251939-19)

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	04/03/2025	ND	1.95	97.5	2.00	9.28		
Toluene*	<0.050	0.050	04/03/2025	ND	2.04	102	2.00	6.21		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.29	114	2.00	5.36		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.96	116	6.00	5.37		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 87.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 16 @ 6' (H251939-20)

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	04/03/2025	ND	1.95	97.5	2.00	9.28	
Toluene*	<0.050	0.050	04/03/2025	ND	2.04	102	2.00	6.21	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.29	114	2.00	5.36	
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.96	116	6.00	5.37	
Total BTEX	<0.300	0.300	04/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	212	106	200	3.36	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	203	102	200	3.22	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 17 @ 5' (H251939-21)

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	04/03/2025	ND	1.95	97.5	2.00	9.28		
Toluene*	<0.050	0.050	04/03/2025	ND	2.04	102	2.00	6.21		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.29	114	2.00	5.36		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.96	116	6.00	5.37		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.9 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/01/2025
 Reported: 04/07/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/01/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FT 17 @ 6' (H251939-22)

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	04/03/2025	ND	1.95	97.5	2.00	9.28		
Toluene*	<0.050	0.050	04/03/2025	ND	2.04	102	2.00	6.21		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.29	114	2.00	5.36		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	6.96	116	6.00	5.37		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	202	101	200	4.24	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	4.46	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 99.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.6 % 40.6-153

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240

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Page 1 of 3

[illegible]

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Relinquished By: 		Date: 4-1-25		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Time: 1448		Received By:		All Results are emailed. Please provide Email address: pm@etechnv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
Relinquished By:		Time:		Received By:		REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C 7.1		Sample Condition Cool Intact		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 6.8		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
				CHECKED BY: (Initials) PD		Thermometer ID #140	
						Correction Factor +0.3	
						Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
						Corrected Temp. °C	

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


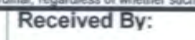
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 3

Page 27 of 27

[illegible]

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Relinquished By: 		Date: 4-1-05		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
Time: 1448						All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		(Initials)	
		-7.1°C		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
		-6.8°C		<input type="checkbox"/> No <input type="checkbox"/> No		Thermometer ID #140	
						Correction Factor -0.6°C +0.3°C	
						Bacteria (only) Sample Condition	
						Cool Intact Observed Temp. °C	
						<input type="checkbox"/> Yes <input type="checkbox"/> Yes	
						<input type="checkbox"/> No <input type="checkbox"/> No	
						Corrected Temp. °C	



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

April 03, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 04/02/25 10:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 1 @ 4' (H251945-01)

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	04/02/2025	ND	1.85	92.7	2.00	5.30	
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 98.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 2 @ 4' (H251945-02)

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	04/02/2025	ND	1.85	92.7	2.00	5.30	
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 3 @ 4' (H251945-03)

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	04/02/2025	ND	1.85	92.7	2.00	5.30		
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24		
Total BTEX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 79.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 4 @ 4' (H251945-04)

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	04/02/2025	ND	1.85	92.7	2.00	5.30		
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24		
Total BTEX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 96.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 5 @ 4' (H251945-05)

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	04/02/2025	ND	1.85	92.7	2.00	5.30		
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24		
Total BTEX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1410	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 79.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.8 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 6 @ 4' (H251945-06)

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	04/02/2025	ND	1.85	92.7	2.00	5.30	
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 7 @ 4' (H251945-07)

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	04/02/2025	ND	1.85	92.7	2.00	5.30	
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 83.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.2 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 8 @ 4' (H251945-08)

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	04/02/2025	ND	1.85	92.7	2.00	5.30		
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24		
Total BTEX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4480	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 97.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 9 @ 5' (H251945-09)

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	04/02/2025	ND	1.85	92.7	2.00	5.30	
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 97.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.6 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 10 @ 5' (H251945-10)

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	04/02/2025	ND	1.85	92.7	2.00	5.30	
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24	
Total BTX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/02/2025	ND	432	108	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.4 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 11 @ 4' (H251945-11)

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	04/02/2025	ND	1.85	92.7	2.00	5.30		
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24		
Total BTEx	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/02/2025	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.0 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 12 @ 4' (H251945-12)

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	04/02/2025	ND	1.85	92.7	2.00	5.30	
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/02/2025	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.9 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 13 @ 4' (H251945-13)

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	04/02/2025	ND	1.85	92.7	2.00	5.30		
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24		
Total BTEx	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	04/02/2025	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 97.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.6 % 40.6-153

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Analytical Results For:

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

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 14 @ 4' (H251945-14)

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	04/02/2025	ND	1.85	92.7	2.00	5.30	
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/02/2025	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 97.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.2 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 15 @ 4' (H251945-15)

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	04/02/2025	ND	1.85	92.7	2.00	5.30	
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/02/2025	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 16 @ 4' (H251945-16)

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	04/02/2025	ND	1.85	92.7	2.00	5.30	
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2220	16.0	04/02/2025	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.3 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 17 @ 4' (H251945-17)

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	04/02/2025	ND	1.85	92.7	2.00	5.30	
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1950	16.0	04/02/2025	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 93.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.9 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 18 @ 4' (H251945-18)

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	04/02/2025	ND	1.85	92.7	2.00	5.30		
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24		
Total BTEx	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/02/2025	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 19 @ 4' (H251945-19)

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	04/02/2025	ND	1.85	92.7	2.00	5.30		
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24		
Total BTEx	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1230	16.0	04/02/2025	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 99.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.2 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 20 @ 4' (H251945-20)

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	04/02/2025	ND	1.85	92.7	2.00	5.30		
Toluene*	<0.050	0.050	04/02/2025	ND	1.98	99.0	2.00	3.97		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	2.30	115	2.00	2.85		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	7.06	118	6.00	2.24		
Total BTEX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	04/02/2025	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	04/02/2025	ND	197	98.7	200	2.98	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	197	98.6	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 97.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.9 % 40.6-153

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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".

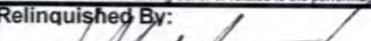
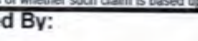
Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240
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Page 1 of 2

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Relinquished By: 		Date: 4.8.25		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
Relinquished By:		Time: 10.43		Received By:		All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
Relinquished By:		Time:		Received By:		24 Hour Rush - Bill analytical to Mewbourne C/O Connor Walker and rush charges to Etch C/O Lance Crenshaw.	
Delivered By: (Circle One)		Observed Temp. °C -8.12		Sample Condition Cool Intact		Turnaround Time: AP 4.225 Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -7.8		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	
				CHECKED BY: (Initials) AP		Thermometer ID #140 Correction Factor -0.6°C + 0.32	

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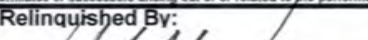
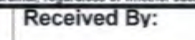

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

Page 24 of 24

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST													
Project Manager: Lance Crenshaw				P.O. #:				Chloride	TPH (8015M)	BTEX (8021B)											
Address: 2617 West Marland				Company: SEE REMARKS																	
City: Hobbs State: NM Zip: 88240				Attn:																	
Phone #: (575) 264-9884 Fax #:				Address:																	
Project #: 18228 Project Owner: Mewbourne				City:																	
Project Name: Chili Verde 23-24 Fed Com 716H				State: Zip:																	
Project Location: 32.477651, -104.167798				Phone #:																	
Sampler Name: Aaron Rios				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							
11	FL 11 @ 4'	C	1			X				X			4/2/25		X	X	X				
12	FL 12 @ 4'	C	1			X				X			4/2/25		X	X	X				
13	FL 13 @ 4'	C	1			X				X			4/2/25		X	X	X				
14	FL 14 @ 4'	C	1			X				X			4/2/25		X	X	X				
15	FL 15 @ 4'	C	1			X				X			4/2/25		X	X	X				
16	FL 16 @ 4'	C	1			X				X			4/2/25		X	X	X				
17	FL 17 @ 4'	C	1			X				X			4/2/25		X	X	X				
18	FL 18 @ 4'	C	1			X				X			4/2/25		X	X	X				
19	FL 19 @ 4'	C	1			X				X			4/2/25		X	X	X				
20	FL 20 @ 4'	C	1			X				X			4/2/25		X	X	X				

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Relinquished By: 		Date: 4.2.25		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: 10:13				All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:				24 Hour Rush - Bill analytical to Mewbourne C/O Connor Walker and rush charges to Etech C/O Lance Crenshaw.	
Delivered By: (Circle One)		Observed Temp. °C -8.1		Sample Condition Cool Intact		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -7.8		CHECKED BY: (Initials) 		Thermometer ID #140	
						Correction Factor -0.6°C +0.3	
						Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
						<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	



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

April 03, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 04/02/25 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 21 @ 4' (H251957-01)

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	04/02/2025	ND	1.94	96.8	2.00	4.60	
Toluene*	<0.050	0.050	04/02/2025	ND	2.02	101	2.00	3.75	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	98.0	2.00	3.41	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	5.77	96.2	6.00	3.25	
Total BTX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/03/2025	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	04/02/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 93.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 22 @ 4' (H251957-02)

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	04/02/2025	ND	1.94	96.8	2.00	4.60	
Toluene*	<0.050	0.050	04/02/2025	ND	2.02	101	2.00	3.75	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	98.0	2.00	3.41	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	5.77	96.2	6.00	3.25	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	04/03/2025	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	04/02/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 90.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.4 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 23 @ 4' (H251957-03)

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	04/02/2025	ND	1.94	96.8	2.00	4.60		
Toluene*	<0.050	0.050	04/02/2025	ND	2.02	101	2.00	3.75		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	98.0	2.00	3.41		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	5.77	96.2	6.00	3.25		
Total BTEX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	16.0	04/03/2025	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	04/02/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.0 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 24 @ 4' (H251957-04)

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	04/02/2025	ND	1.94	96.8	2.00	4.60	
Toluene*	<0.050	0.050	04/02/2025	ND	2.02	101	2.00	3.75	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	98.0	2.00	3.41	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	5.77	96.2	6.00	3.25	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	04/03/2025	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	04/02/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.7 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 25 @ 5' (H251957-05)

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	04/02/2025	ND	1.94	96.8	2.00	4.60	
Toluene*	<0.050	0.050	04/02/2025	ND	2.02	101	2.00	3.75	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	98.0	2.00	3.41	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	5.77	96.2	6.00	3.25	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/03/2025	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	04/02/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 88.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.7 % 40.6-153

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 26 @ 4' (H251957-06)

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	04/02/2025	ND	1.94	96.8	2.00	4.60	
Toluene*	<0.050	0.050	04/02/2025	ND	2.02	101	2.00	3.75	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	98.0	2.00	3.41	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	5.77	96.2	6.00	3.25	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/03/2025	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	04/02/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.3 % 40.6-153

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Analytical Results For:

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

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 27 @ 4' (H251957-07)

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	04/02/2025	ND	1.94	96.8	2.00	4.60	
Toluene*	<0.050	0.050	04/02/2025	ND	2.02	101	2.00	3.75	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	98.0	2.00	3.41	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	5.77	96.2	6.00	3.25	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/03/2025	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	04/02/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.5 % 40.6-153

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 28 @ 4' (H251957-08)

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	04/02/2025	ND	1.94	96.8	2.00	4.60		
Toluene*	<0.050	0.050	04/02/2025	ND	2.02	101	2.00	3.75		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	98.0	2.00	3.41		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	5.77	96.2	6.00	3.25		
Total BTEX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/03/2025	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	04/02/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.1 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 29 @ 4' (H251957-09)

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	04/02/2025	ND	1.94	96.8	2.00	4.60	
Toluene*	<0.050	0.050	04/02/2025	ND	2.02	101	2.00	3.75	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	98.0	2.00	3.41	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	5.77	96.2	6.00	3.25	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/03/2025	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	04/02/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 98.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.1 % 40.6-153

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 30 @ 4' (H251957-10)

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	04/02/2025	ND	1.94	96.8	2.00	4.60		
Toluene*	<0.050	0.050	04/02/2025	ND	2.02	101	2.00	3.75		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	98.0	2.00	3.41		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	5.77	96.2	6.00	3.25		
Total BTEx	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1870	16.0	04/03/2025	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	04/02/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.9 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 31 @ 4' (H251957-11)

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	04/02/2025	ND	1.94	96.8	2.00	4.60	
Toluene*	<0.050	0.050	04/02/2025	ND	2.02	101	2.00	3.75	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	98.0	2.00	3.41	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	5.77	96.2	6.00	3.25	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-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	04/03/2025	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	04/02/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 86.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.4 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 32 @ 4' (H251957-12)

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	04/02/2025	ND	1.94	96.8	2.00	4.60	
Toluene*	<0.050	0.050	04/02/2025	ND	2.02	101	2.00	3.75	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	98.0	2.00	3.41	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	5.77	96.2	6.00	3.25	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/03/2025	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	04/02/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.2 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 33 @ 4' (H251957-13)

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	04/02/2025	ND	1.94	96.8	2.00	4.60		
Toluene*	<0.050	0.050	04/02/2025	ND	2.02	101	2.00	3.75		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	98.0	2.00	3.41		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	5.77	96.2	6.00	3.25		
Total BTEX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/03/2025	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	04/02/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.4 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 34 @ 4' (H251957-14)

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	04/02/2025	ND	1.94	96.8	2.00	4.60	
Toluene*	<0.050	0.050	04/02/2025	ND	2.02	101	2.00	3.75	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	98.0	2.00	3.41	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	5.77	96.2	6.00	3.25	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/03/2025	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	04/02/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/02/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/02/2025	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.1 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 35 @ 4' (H251957-15)

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	04/02/2025	ND	1.94	96.8	2.00	4.60		
Toluene*	<0.050	0.050	04/02/2025	ND	2.02	101	2.00	3.75		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	98.0	2.00	3.41		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	5.77	96.2	6.00	3.25		
Total BTEX	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	04/03/2025	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	04/03/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.6 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 36 @ 4' (H251957-16)

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	04/02/2025	ND	1.94	96.8	2.00	4.60		
Toluene*	<0.050	0.050	04/02/2025	ND	2.02	101	2.00	3.75		
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	98.0	2.00	3.41		
Total Xylenes*	<0.150	0.150	04/02/2025	ND	5.77	96.2	6.00	3.25		
Total BTEx	<0.300	0.300	04/02/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/03/2025	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	04/03/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.9 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 37 @ 4' (H251957-17)

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	04/02/2025	ND	1.94	96.8	2.00	4.60	
Toluene*	<0.050	0.050	04/02/2025	ND	2.02	101	2.00	3.75	
Ethylbenzene*	<0.050	0.050	04/02/2025	ND	1.96	98.0	2.00	3.41	
Total Xylenes*	<0.150	0.150	04/02/2025	ND	5.77	96.2	6.00	3.25	
Total BTEX	<0.300	0.300	04/02/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	04/03/2025	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	04/03/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 87.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.7 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 38 @ 4' (H251957-18)

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	04/03/2025	ND	1.94	96.8	2.00	4.60		
Toluene*	<0.050	0.050	04/03/2025	ND	2.02	101	2.00	3.75		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.96	98.0	2.00	3.41		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	5.77	96.2	6.00	3.25		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	04/03/2025	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	04/03/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 99.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.4 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 39 @ 4' (H251957-19)

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	04/03/2025	ND	1.94	96.8	2.00	4.60		
Toluene*	<0.050	0.050	04/03/2025	ND	2.02	101	2.00	3.75		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.96	98.0	2.00	3.41		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	5.77	96.2	6.00	3.25		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/03/2025	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	04/03/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 98.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.0 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/03/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 40 @ 4' (H251957-20)

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	04/03/2025	ND	1.94	96.8	2.00	4.60		
Toluene*	<0.050	0.050	04/03/2025	ND	2.02	101	2.00	3.75		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	1.96	98.0	2.00	3.41		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	5.77	96.2	6.00	3.25		
Total BTEx	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/03/2025	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	04/03/2025	ND	212	106	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	201	100	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 96.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.5 % 40.6-153

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

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

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


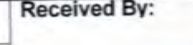

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

Page 23 of 24

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Relinquished By: 		Date: 4-2-25	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Time: 15:10				All Results are emailed. Please provide Email address: pm@etechenv.com
Relinquished By:		Date:	Received By:	REMARKS:
Time:				24 Hour Rush - Bill analytical to Mewbourne C/O Connor Walker and rush charges to Etech C/O Lance Crenshaw.
Delivered By: (Circle One)	Observed Temp. °C 13	Sample Condition	CHECKED BY: (Initials)	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C 10.2	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No
		<input type="checkbox"/> No <input type="checkbox"/> No		Thermometer ID #140 Correction Factor 0.6°C +0.3
				Corrected Temp. °C

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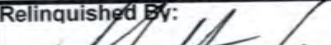
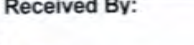


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

Page 24 of 24

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																
Project Manager: Lance Crenshaw				P.O. #:				Chloride	TPH (8015M)	BTEX (8021B)														
Address: 2617 West Marland				Company: SEE REMARKS																				
City: Hobbs State: NM Zip: 88240				Attn:																				
Phone #: (575) 264-9884 Fax #:				Address:																				
Project #: 18228 Project Owner: Mewbourne				City:																				
Project Name: Chili Verde 23-24 Fed Com 716H				State: Zip:																				
Project Location: 32.477651, -104.167798				Phone #:																				
Sampler Name: Aaron Rios				Fax #:																				
FOR LAB USE ONLY						PRESERV.		SAMPLING		Chloride	TPH (8015M)	BTEX (8021B)												
Lab I.D.	Sample I.D.	(GRAB OR (COMP.	# CONTAINERS	MATRIX																				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME										
11	FL 31 @ 4'	C	1			X					X		4/2/25		X	X	X							
12	FL 32 @ 4'	C	1			X					X		4/2/25		X	X	X							
13	FL 33 @ 4'	C	1			X					X		4/2/25		X	X	X							
14	FL 34 @ 4'	C	1			X					X		4/2/25		X	X	X							
15	FL 35 @ 4'	C	1			X					X		4/2/25		X	X	X							
16	FL 36 @ 4'	C	1			X					X		4/2/25		X	X	X							
17	FL 37 @ 4'	C	1			X					X		4/2/25		X	X	X							
18	FL 38 @ 4'	C	1			X					X		4/2/25		X	X	X							
19	FL 39 @ 4'	C	1			X					X		4/2/25		X	X	X							
20	FL 40 @ 4'	C	1			X					X		4/2/25		X	X	X							

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Relinquished By: 		Date: 4-2-25	Time: 150	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	All Results are emailed. Please provide Email address: pm@etechenv.com
Relinquished By: 		Date:	Time:	Received By:	REMARKS:	24 Hour Rush - Bill analytical to Mewbourne C/O Connor Walker and rush charges to Etech C/O Lance Crenshaw.
Delivered By: (Circle One)	Observed Temp. °C 13~	Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact	Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C 10~	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140	<input type="checkbox"/> Yes <input type="checkbox"/> No	Corrected Temp. °C
		<input type="checkbox"/> No <input type="checkbox"/> No		Correction Factor +0.5°C +0.3~	<input type="checkbox"/> Yes <input type="checkbox"/> No	



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

April 08, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 04/02/25 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 41 @ 4' (H251960-01)

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	04/03/2025	ND	1.93	96.4	2.00	6.15	
Toluene*	<0.050	0.050	04/03/2025	ND	2.04	102	2.00	1.20	
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.34	117	2.00	0.958	QM-07
Total Xylenes*	<0.150	0.150	04/03/2025	ND	7.18	120	6.00	1.56	QM-07
Total BTX	<0.300	0.300	04/03/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7440	16.0	04/03/2025	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 96.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 43 @ 4' (H251960-02)

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	04/03/2025	ND	1.93	96.4	2.00	6.15		
Toluene*	<0.050	0.050	04/03/2025	ND	2.04	102	2.00	1.20		
Ethylbenzene*	<0.050	0.050	04/03/2025	ND	2.34	117	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/03/2025	ND	7.18	120	6.00	1.56		
Total BTEX	<0.300	0.300	04/03/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1140	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 81.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 44 @ 4' (H251960-03)

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	04/04/2025	ND	1.93	96.4	2.00	6.15	
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20	
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958	
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56	
Total BTEX	<0.300	0.300	04/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 92.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 45 @ 4' (H251960-04)

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	04/04/2025	ND	1.93	96.4	2.00	6.15		
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 78.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.0 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 46 @ 4' (H251960-05)

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	04/04/2025	ND	1.93	96.4	2.00	6.15		
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 47 @ 4' (H251960-06)

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	04/04/2025	ND	1.93	96.4	2.00	6.15		
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 80.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.4 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 48 @ 4' (H251960-07)

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	04/04/2025	ND	1.93	96.4	2.00	6.15		
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-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	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 78.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.1 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 49 @ 4' (H251960-08)

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	04/04/2025	ND	1.93	96.4	2.00	6.15		
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56		
Total BTEx	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 91.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.2 % 40.6-153

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Analytical Results For:

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 HOBBS NM, 88240
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Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 50 @ 4' (H251960-09)

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	04/04/2025	ND	1.93	96.4	2.00	6.15	
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20	
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958	
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56	
Total BTEX	<0.300	0.300	04/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 90.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.6 % 40.6-153

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 HOBBS NM, 88240
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Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 51 @ 4' (H251960-10)

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	04/04/2025	ND	1.93	96.4	2.00	6.15		
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 81.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.0 % 40.6-153

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 52 @ 4' (H251960-11)

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	04/04/2025	ND	1.93	96.4	2.00	6.15		
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56		
Total BTEx	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 87.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.0 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 53 @ 4' (H251960-12)

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	04/04/2025	ND	1.93	96.4	2.00	6.15		
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 80.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.2 % 40.6-153

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 54 @ 4' (H251960-13)

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	04/04/2025	ND	1.93	96.4	2.00	6.15	
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20	
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958	
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56	
Total BTEX	<0.300	0.300	04/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.9 % 40.6-153

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 55 @ 4' (H251960-14)

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	04/04/2025	ND	1.93	96.4	2.00	6.15	
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20	
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958	
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56	
Total BTEX	<0.300	0.300	04/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 75.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.9 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 56 @ 4' (H251960-15)

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	04/04/2025	ND	1.93	96.4	2.00	6.15		
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.6 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 57 @ 4' (H251960-16)

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	04/04/2025	ND	1.93	96.4	2.00	6.15		
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56		
Total BTEx	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 80.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.7 % 40.6-153

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Analytical Results For:

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

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 58 @ 4' (H251960-17)

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	04/04/2025	ND	1.93	96.4	2.00	6.15		
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 74.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.1 % 40.6-153

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 59 @ 4' (H251960-18)

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	04/04/2025	ND	1.93	96.4	2.00	6.15		
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.6 % 40.6-153

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Analytical Results For:

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 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 60 @ 4' (H251960-19)

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	04/04/2025	ND	1.93	96.4	2.00	6.15		
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56		
Total BTX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5600	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 79.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.5 % 40.6-153

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 61 @ 4' (H251960-20)

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	04/04/2025	ND	1.93	96.4	2.00	6.15	
Toluene*	<0.050	0.050	04/04/2025	ND	2.04	102	2.00	1.20	
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.34	117	2.00	0.958	
Total Xylenes*	<0.150	0.150	04/04/2025	ND	7.18	120	6.00	1.56	
Total BTEX	<0.300	0.300	04/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2350	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	187	93.6	200	2.51	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	176	87.8	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.7 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 62 @ 4' (H251960-21)

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	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6160	16.0	04/03/2025	ND	432	108	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 78.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.1 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 63 @ 4' (H251960-22)

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	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEx	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 71.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.7 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 64 @ 4' (H251960-23)

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	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 65.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 59.4 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 65 @ 4' (H251960-24)

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	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 66.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.9 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 66 @ 4' (H251960-25)

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	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEx	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 70.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.8 % 40.6-153

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Analytical Results For:

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

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 67 @ 4' (H251960-26)

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	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 81.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.6 % 40.6-153

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 68 @ 4' (H251960-27)

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	04/04/2025	ND	1.99	99.7	2.00	1.27	
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99	
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89	
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20	
Total BTEX	<0.300	0.300	04/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 79.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.0 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 69 @ 4' (H251960-28)

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	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 79.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.1 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 70 @ 4' (H251960-29)

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	04/04/2025	ND	1.99	99.7	2.00	1.27	
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99	
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89	
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20	
Total BTEX	<0.300	0.300	04/04/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11600	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 73.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.8 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 71 @ 4' (H251960-30)

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	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 73.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.9 % 40.6-153

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 72 @ 4' (H251960-31)

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	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 64.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 58.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 73 @ 4' (H251960-32)

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	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 72.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.8 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 74 @ 4' (H251960-33)

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	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3280	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 63.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 59.1 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 75 @ 4' (H251960-34)

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	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12200	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 68.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.8 % 40.6-153

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Analytical Results For:

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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 76 @ 4' (H251960-35)

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	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 71.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.6 % 40.6-153

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Analytical Results For:

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

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 77 @ 4' (H251960-36)

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	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5440	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 70.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 65.3 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 78 @ 4' (H251960-37)

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	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEx	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 76.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.5 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 79 @ 4' (H251960-38)

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	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEX	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 72.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.9 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/02/2025
 Reported: 04/08/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/02/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 80 @ 4' (H251960-39)

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	04/04/2025	ND	1.99	99.7	2.00	1.27		
Toluene*	<0.050	0.050	04/04/2025	ND	1.95	97.3	2.00	2.99		
Ethylbenzene*	<0.050	0.050	04/04/2025	ND	2.01	100	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/04/2025	ND	6.25	104	6.00	5.20		
Total BTEx	<0.300	0.300	04/04/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10400	16.0	04/03/2025	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	04/03/2025	ND	192	96.1	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/03/2025	ND	187	93.5	200	0.391	
EXT DRO >C28-C36	<10.0	10.0	04/03/2025	ND					

Surrogate: 1-Chlorooctane 73.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 4

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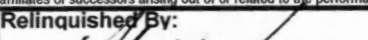
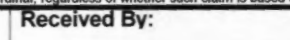

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 4

Page 43 of 45

Company Name:						Etech Environmental & Safety Solutions, Inc.									
Project Manager:						Lance Crenshaw									
Address:						2617 West Marland									
City:						Hobbs	State:		NM	Zip:		88240			
Phone #:						(575) 264-9884	Fax #:								
Project #:						18228	Project Owner:		Mewbourne						
Project Name:						Chili Verde 23-24 Fed Com 716H									
Project Location:						32.477651, -104.167798									
Sampler Name:						Aaron Rios									
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
11	FL 52 @ 4'					C	1	X				X		4/2/25	
12	FL 53 @ 4'					C	1	X				X		4/2/25	
13	FL 54 @ 4'					C	1	X				X		4/2/25	
14	FL 55 @ 4'					C	1	X				X		4/2/25	
15	FL 56 @ 4'					C	1	X				X		4/2/25	
K6	FL 57 @ 4'					C	1	X				X		4/2/25	
17	FL 58 @ 4'					C	1	X				X		4/2/25	
18	FL 59 @ 4'					C	1	X				X		4/2/25	
19	FL 60 @ 4'					C	1	X				X		4/2/25	
20	FL 61 @ 4'					C	1	X				X		4/2/25	

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Relinquished By: 		Date: 4-2-25 Time: 1510		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date: Time:		Received By:		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 1.3 Corrected Temp. °C: 1.0		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 	
						Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor 0.6°C +0.3	
						Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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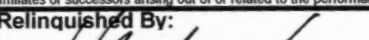
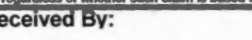
Relinquished By: 		Date: 4.2.05		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Phone #:	
Relinquished By:		Time: 1510		Received By:		All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
Relinquished By:		Time:		Received By:		REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C 1.3- 1.0-		Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
				CHECKED BY: (Initials) 		Thermometer ID #140	
						Correction Factor -0.6°C +0.3-	
						Corrected Temp. °C	

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Relinquished By: 		Date: 4-2-25		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
Time: 1510		Time:		All Results are emailed. Please provide Email address: pm@etechenv.com			
Relinquished By:		Date:		Received By:		REMARKS:	
Time:		Time:					
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
		130		100		Thermometer ID #140 Correction Factor 0.6°C	
		100		100		4-2-25 10-30	
				100		100	



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

April 09, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 04/03/25 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 42 @ 4' (H251996-01)

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	04/07/2025	ND	2.08	104	2.00	0.149	
Toluene*	<0.050	0.050	04/07/2025	ND	2.11	105	2.00	0.187	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	0.206	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.05	101	6.00	0.0337	
Total BTX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/07/2025	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	04/06/2025	ND	206	103	200	1.66	
DRO >C10-C28*	<10.0	10.0	04/06/2025	ND	197	98.4	200	0.740	
EXT DRO >C28-C36	<10.0	10.0	04/06/2025	ND					

Surrogate: 1-Chlorooctane 79.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 81 @ 4' (H251996-02)

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	04/07/2025	ND	2.08	104	2.00	0.149		
Toluene*	<0.050	0.050	04/07/2025	ND	2.11	105	2.00	0.187		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	0.206		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.05	101	6.00	0.0337		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/07/2025	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	04/06/2025	ND	206	103	200	1.66	
DRO >C10-C28*	<10.0	10.0	04/06/2025	ND	197	98.4	200	0.740	
EXT DRO >C28-C36	<10.0	10.0	04/06/2025	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 82 @ 4' (H251996-03)

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	04/07/2025	ND	2.08	104	2.00	0.149		
Toluene*	<0.050	0.050	04/07/2025	ND	2.11	105	2.00	0.187		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	0.206		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.05	101	6.00	0.0337		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	04/07/2025	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	04/06/2025	ND	206	103	200	1.66	
DRO >C10-C28*	<10.0	10.0	04/06/2025	ND	197	98.4	200	0.740	
EXT DRO >C28-C36	<10.0	10.0	04/06/2025	ND					

Surrogate: 1-Chlorooctane 72.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 83 @ 4' (H251996-04)

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	04/07/2025	ND	2.08	104	2.00	0.149	
Toluene*	<0.050	0.050	04/07/2025	ND	2.11	105	2.00	0.187	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	0.206	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.05	101	6.00	0.0337	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 84 @ 4' (H251996-05)

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	04/07/2025	ND	2.08	104	2.00	0.149		
Toluene*	<0.050	0.050	04/07/2025	ND	2.11	105	2.00	0.187		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	0.206		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.05	101	6.00	0.0337		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1330	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.3 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 85 @ 4' (H251996-06)

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	04/07/2025	ND	2.08	104	2.00	0.149	
Toluene*	<0.050	0.050	04/07/2025	ND	2.11	105	2.00	0.187	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	0.206	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.05	101	6.00	0.0337	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 98.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.8 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 86 @ 4' (H251996-07)

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	04/07/2025	ND	2.08	104	2.00	0.149		
Toluene*	<0.050	0.050	04/07/2025	ND	2.11	105	2.00	0.187		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	0.206		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.05	101	6.00	0.0337		
Total BTX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 89.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.0 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 87 @ 4' (H251996-08)

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	04/07/2025	ND	2.08	104	2.00	0.149	
Toluene*	<0.050	0.050	04/07/2025	ND	2.11	105	2.00	0.187	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	0.206	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.05	101	6.00	0.0337	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.8 % 40.6-153

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Analytical Results For:

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

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 88 @ 4' (H251996-09)

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	04/07/2025	ND	2.08	104	2.00	0.149		
Toluene*	<0.050	0.050	04/07/2025	ND	2.11	105	2.00	0.187		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	0.206		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.05	101	6.00	0.0337		
Total BTEx	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 88.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.5 % 40.6-153

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Analytical Results For:

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 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 89 @ 4' (H251996-10)

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	04/07/2025	ND	2.08	104	2.00	0.149		
Toluene*	<0.050	0.050	04/07/2025	ND	2.11	105	2.00	0.187		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	0.206		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.05	101	6.00	0.0337		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.3 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 90 @ 4' (H251996-11)

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	04/07/2025	ND	2.08	104	2.00	0.149		
Toluene*	<0.050	0.050	04/07/2025	ND	2.11	105	2.00	0.187		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	0.206		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.05	101	6.00	0.0337		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.0 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 91 @ 4' (H251996-12)

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	04/07/2025	ND	2.08	104	2.00	0.149		
Toluene*	<0.050	0.050	04/07/2025	ND	2.11	105	2.00	0.187		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	0.206		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.05	101	6.00	0.0337		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.5 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 92 @ 4' (H251996-13)

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	04/07/2025	ND	2.08	104	2.00	0.149		
Toluene*	<0.050	0.050	04/07/2025	ND	2.11	105	2.00	0.187		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	0.206		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.05	101	6.00	0.0337		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.5 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 93 @ 4' (H251996-14)

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	04/07/2025	ND	2.08	104	2.00	0.149		
Toluene*	<0.050	0.050	04/07/2025	ND	2.11	105	2.00	0.187		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	0.206		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.05	101	6.00	0.0337		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 97.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 94 @ 4' (H251996-15)

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	04/07/2025	ND	2.08	104	2.00	0.149		
Toluene*	<0.050	0.050	04/07/2025	ND	2.11	105	2.00	0.187		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	0.206		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.05	101	6.00	0.0337		
Total BTEx	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.8 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 95 @ 4' (H251996-16)

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	04/07/2025	ND	2.08	104	2.00	0.149		
Toluene*	<0.050	0.050	04/07/2025	ND	2.11	105	2.00	0.187		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	0.206		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.05	101	6.00	0.0337		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 85.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.3 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 96 @ 4' (H251996-17)

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	04/07/2025	ND	2.08	104	2.00	0.149	
Toluene*	<0.050	0.050	04/07/2025	ND	2.11	105	2.00	0.187	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	0.206	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.05	101	6.00	0.0337	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.6 % 40.6-153

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Analytical Results For:

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

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 97 @ 4' (H251996-18)

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	04/07/2025	ND	2.02	101	2.00	6.27		
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.3 % 40.6-153

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Analytical Results For:

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

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 98 @ 4' (H251996-19)

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	04/07/2025	ND	2.02	101	2.00	6.27		
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 90.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.3 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 99 @ 4' (H251996-20)

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	04/07/2025	ND	2.02	101	2.00	6.27		
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 97.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.6 % 40.6-153

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Analytical Results For:

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

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 100 @ 4' (H251996-21)

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	04/07/2025	ND	2.02	101	2.00	6.27	
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.6 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 101 @ 4' (H251996-22)

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	04/07/2025	ND	2.02	101	2.00	6.27		
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 91.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.8 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 102 @ 4' (H251996-23)

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	04/07/2025	ND	2.02	101	2.00	6.27		
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/07/2025	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	04/07/2025	ND	197	98.5	200	3.50	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	208	104	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.1 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 103 @ 4' (H251996-24)

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	04/07/2025	ND	2.02	101	2.00	6.27	
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/07/2025	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.3 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 104 @ 4' (H251996-25)

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	04/07/2025	ND	2.02	101	2.00	6.27	
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/07/2025	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 63.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 57.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 105 @ 4' (H251996-26)

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	04/07/2025	ND	2.02	101	2.00	6.27		
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54		
Total BTEx	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/07/2025	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 81.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.1 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 106 @ 4' (H251996-27)

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	04/07/2025	ND	2.02	101	2.00	6.27		
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/07/2025	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 76.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.7 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 107 @ 4' (H251996-28)

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	04/07/2025	ND	2.02	101	2.00	6.27	
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/07/2025	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 93.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.2 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 108 @ 4' (H251996-29)

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	04/07/2025	ND	2.02	101	2.00	6.27		
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54		
Total BTEx	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/07/2025	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 81.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 109 @ 4' (H251996-30)

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	04/07/2025	ND	2.02	101	2.00	6.27		
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54		
Total BTEx	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/07/2025	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.0 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 110 @ 4' (H251996-31)

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	04/07/2025	ND	2.02	101	2.00	6.27		
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/07/2025	ND	480	120	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 80.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.3 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 111 @ 4' (H251996-32)

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	04/07/2025	ND	2.02	101	2.00	6.27		
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/07/2025	ND	480	120	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 91.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 112 @ 4' (H251996-33)

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	04/07/2025	ND	2.02	101	2.00	6.27		
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54		
Total BTX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/07/2025	ND	480	120	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 91.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 113 @ 4' (H251996-34)

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	04/07/2025	ND	2.02	101	2.00	6.27		
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/07/2025	ND	480	120	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.9 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 114 @ 4' (H251996-35)

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	04/07/2025	ND	2.02	101	2.00	6.27	
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54	
Total BTX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/07/2025	ND	480	120	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 91.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.6 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 115 @ 4' (H251996-36)

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	04/07/2025	ND	2.02	101	2.00	6.27		
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/07/2025	ND	480	120	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.1 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 116 @ 4' (H251996-37)

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	04/07/2025	ND	2.02	101	2.00	6.27		
Toluene*	<0.050	0.050	04/07/2025	ND	2.05	103	2.00	4.76		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.05	102	2.00	4.89		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.52	109	6.00	4.54		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

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	04/07/2025	ND	480	120	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 94.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.6 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 117 @ 4' (H251996-38)

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	04/07/2025	ND	2.13	107	2.00	0.350	
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61	QM-07
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04	QM-07
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/07/2025	ND	480	120	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 118 @ 4' (H251996-39)

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	04/07/2025	ND	2.13	107	2.00	0.350	
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-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	04/07/2025	ND	480	120	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.5 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 119 @ 4' (H251996-40)

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	04/07/2025	ND	2.13	107	2.00	0.350		
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/07/2025	ND	480	120	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.8 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 120 @ 4' (H251996-41)

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	04/07/2025	ND	2.13	107	2.00	0.350		
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/07/2025	ND	480	120	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 90.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.9 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 121 @ 4' (H251996-42)

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	04/07/2025	ND	2.13	107	2.00	0.350	
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-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	04/07/2025	ND	480	120	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.8 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 122 @ 4' (H251996-43)

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	04/07/2025	ND	2.13	107	2.00	0.350		
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/07/2025	ND	480	120	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	04/07/2025	ND	216	108	200	1.25	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	107	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 93.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.4 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 123 @ 4' (H251996-44)

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	04/07/2025	ND	2.13	107	2.00	0.350		
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

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	04/07/2025	ND	480	120	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 90.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.2 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 124 @ 4' (H251996-45)

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	04/07/2025	ND	2.13	107	2.00	0.350		
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/07/2025	ND	480	120	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 92.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.1 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 125 @ 4' (H251996-46)

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	04/07/2025	ND	2.13	107	2.00	0.350		
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/07/2025	ND	480	120	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 79.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.2 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 126 @ 4' (H251996-47)

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	04/07/2025	ND	2.13	107	2.00	0.350		
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/07/2025	ND	480	120	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 88.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.3 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 127 @ 4' (H251996-48)

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	04/07/2025	ND	2.13	107	2.00	0.350	
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	04/07/2025	ND	480	120	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 128 @ 4' (H251996-49)

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	04/07/2025	ND	2.13	107	2.00	0.350	
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	04/07/2025	ND	480	120	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 90.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.4 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 129 @ 4' (H251996-50)

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	04/07/2025	ND	2.13	107	2.00	0.350		
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	04/07/2025	ND	480	120	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 87.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.3 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 130 @ 4' (H251996-51)

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	04/07/2025	ND	2.13	107	2.00	0.350	
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	04/07/2025	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 88.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.3 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 131 @ 4' (H251996-52)

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	04/07/2025	ND	2.13	107	2.00	0.350	
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	04/07/2025	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 88.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.0 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 132 @ 4' (H251996-53)

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	04/07/2025	ND	2.13	107	2.00	0.350	
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/07/2025	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.2 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 133 @ 4' (H251996-54)

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	04/07/2025	ND	2.13	107	2.00	0.350	
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/07/2025	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.3 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 134 @ 4' (H251996-55)

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	04/07/2025	ND	2.13	107	2.00	0.350	
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/07/2025	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 75.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.0 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 135 @ 4' (H251996-56)

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	04/07/2025	ND	2.13	107	2.00	0.350		
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	04/07/2025	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 83.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.9 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 136 @ 4' (H251996-57)

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	04/07/2025	ND	2.13	107	2.00	0.350	
Toluene*	<0.050	0.050	04/07/2025	ND	2.22	111	2.00	1.27	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.54	127	2.00	1.61	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.79	130	6.00	2.04	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/07/2025	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 137 @ 4' (H251996-58)

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	04/07/2025	ND	2.06	103	2.00	16.1		
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	04/07/2025	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 138 @ 4' (H251996-59)

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	04/07/2025	ND	2.06	103	2.00	16.1	
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	04/07/2025	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 139 @ 4' (H251996-60)

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	04/07/2025	ND	2.06	103	2.00	16.1	
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1660	16.0	04/07/2025	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 88.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.1 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 140 @ 4' (H251996-61)

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	04/07/2025	ND	2.06	103	2.00	16.1	
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	04/07/2025	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.5 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 141 @ 4' (H251996-62)

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	04/07/2025	ND	2.06	103	2.00	16.1	
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	04/07/2025	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.7 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 142 @ 4' (H251996-63)

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	04/07/2025	ND	2.06	103	2.00	16.1	
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	04/07/2025	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	04/07/2025	ND	209	105	200	4.89	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	201	101	200	3.57	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.5 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 143 @ 4' (H251996-64)

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	04/07/2025	ND	2.06	103	2.00	16.1		
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 84.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.5 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 145 @ 4' (H251996-65)

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	04/07/2025	ND	2.06	103	2.00	16.1		
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.5 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 146 @ 4' (H251996-66)

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	04/07/2025	ND	2.06	103	2.00	16.1		
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.2 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 147 @ 4' (H251996-67)

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	04/07/2025	ND	2.06	103	2.00	16.1	
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 94.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 148 @ 4' (H251996-68)

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	04/07/2025	ND	2.06	103	2.00	16.1		
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 80.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 149 @ 4' (H251996-69)

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	04/07/2025	ND	2.06	103	2.00	16.1		
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1810	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 87.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.3 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 150 @ 4' (H251996-70)

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	04/07/2025	ND	2.06	103	2.00	16.1		
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2080	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.4 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 151 @ 4' (H251996-71)

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	04/07/2025	ND	2.06	103	2.00	16.1		
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4		
Total BTEx	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	04/07/2025	ND	416	104	400	3.77	QM-07	

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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.8 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 152 @ 4' (H251996-72)

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	04/07/2025	ND	2.06	103	2.00	16.1		
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5200	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.1 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 153 @ 4' (H251996-73)

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	04/07/2025	ND	2.06	103	2.00	16.1		
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1140	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.1 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 154 @ 4' (H251996-74)

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	04/07/2025	ND	2.06	103	2.00	16.1		
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.5 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 155 @ 4' (H251996-75)

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	04/07/2025	ND	2.06	103	2.00	16.1		
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 92.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.3 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 156 @ 4' (H251996-76)

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	04/07/2025	ND	2.06	103	2.00	16.1		
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 157 @ 4' (H251996-77)

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	04/07/2025	ND	2.06	103	2.00	16.1		
Toluene*	<0.050	0.050	04/07/2025	ND	2.03	101	2.00	16.9		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.14	107	2.00	17.8		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	6.67	111	6.00	17.4		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1330	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 67.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 60.6 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 158 @ 4' (H251996-78)

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	04/07/2025	ND	2.19	109	2.00	17.2	
Toluene*	<0.050	0.050	04/07/2025	ND	2.28	114	2.00	13.6	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.60	130	2.00	12.5	QM-07
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.95	133	6.00	12.1	QM-07
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.4 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 159 @ 4' (H251996-79)

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	04/07/2025	ND	2.19	109	2.00	17.2		
Toluene*	<0.050	0.050	04/07/2025	ND	2.28	114	2.00	13.6		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.60	130	2.00	12.5		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.95	133	6.00	12.1		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 93.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 160 @ 4' (H251996-80)

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	04/07/2025	ND	2.19	109	2.00	17.2		
Toluene*	<0.050	0.050	04/07/2025	ND	2.28	114	2.00	13.6		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.60	130	2.00	12.5		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.95	133	6.00	12.1		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4720	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 92.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 161 @ 4' (H251996-81)

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	04/07/2025	ND	2.19	109	2.00	17.2		
Toluene*	<0.050	0.050	04/07/2025	ND	2.28	114	2.00	13.6		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.60	130	2.00	12.5		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.95	133	6.00	12.1		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 162 @ 4' (H251996-82)

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	04/07/2025	ND	2.19	109	2.00	17.2		
Toluene*	<0.050	0.050	04/07/2025	ND	2.28	114	2.00	13.6		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.60	130	2.00	12.5		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.95	133	6.00	12.1		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11300	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 163 @ 4' (H251996-83)

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	04/07/2025	ND	2.19	109	2.00	17.2		
Toluene*	<0.050	0.050	04/07/2025	ND	2.28	114	2.00	13.6		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.60	130	2.00	12.5		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.95	133	6.00	12.1		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/07/2025	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	04/07/2025	ND	210	105	200	2.20	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	199	99.6	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 94.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.8 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 164 @ 4' (H251996-84)

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	04/07/2025	ND	2.19	109	2.00	17.2	
Toluene*	<0.050	0.050	04/07/2025	ND	2.28	114	2.00	13.6	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.60	130	2.00	12.5	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.95	133	6.00	12.1	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/07/2025	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	04/07/2025	ND	217	109	200	1.42	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	108	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 55.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 51.4 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 165 @ 4' (H251996-85)

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	04/07/2025	ND	2.19	109	2.00	17.2		
Toluene*	<0.050	0.050	04/07/2025	ND	2.28	114	2.00	13.6		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.60	130	2.00	12.5		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.95	133	6.00	12.1		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/07/2025	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	04/07/2025	ND	217	109	200	1.42	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	108	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 74.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.2 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 166 @ 4' (H251996-86)

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	04/07/2025	ND	2.19	109	2.00	17.2	
Toluene*	<0.050	0.050	04/07/2025	ND	2.28	114	2.00	13.6	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.60	130	2.00	12.5	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.95	133	6.00	12.1	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	04/07/2025	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	04/07/2025	ND	217	109	200	1.42	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	108	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 76.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.6 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 167 @ 4' (H251996-87)

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	04/07/2025	ND	2.19	109	2.00	17.2		
Toluene*	<0.050	0.050	04/07/2025	ND	2.28	114	2.00	13.6		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.60	130	2.00	12.5		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.95	133	6.00	12.1		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/07/2025	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	04/07/2025	ND	217	109	200	1.42	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	108	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 74.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.5 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 168 @ 4' (H251996-88)

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	04/07/2025	ND	2.19	109	2.00	17.2		
Toluene*	<0.050	0.050	04/07/2025	ND	2.28	114	2.00	13.6		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.60	130	2.00	12.5		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.95	133	6.00	12.1		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/07/2025	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	04/07/2025	ND	217	109	200	1.42	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	108	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 73.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.1 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 169 @ 4' (H251996-89)

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	04/07/2025	ND	2.19	109	2.00	17.2		
Toluene*	<0.050	0.050	04/07/2025	ND	2.28	114	2.00	13.6		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.60	130	2.00	12.5		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.95	133	6.00	12.1		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	04/07/2025	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	04/07/2025	ND	217	109	200	1.42	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	108	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 73.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.9 % 40.6-153

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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 170 @ 4' (H251996-90)

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	04/07/2025	ND	2.19	109	2.00	17.2		
Toluene*	<0.050	0.050	04/07/2025	ND	2.28	114	2.00	13.6		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.60	130	2.00	12.5		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.95	133	6.00	12.1		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/07/2025	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	04/07/2025	ND	217	109	200	1.42	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	108	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 69.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 65.3 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 171 @ 4' (H251996-91)

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	04/07/2025	ND	2.19	109	2.00	17.2		
Toluene*	<0.050	0.050	04/07/2025	ND	2.28	114	2.00	13.6		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.60	130	2.00	12.5		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.95	133	6.00	12.1		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 71.5-134

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	04/07/2025	ND	432	108	400	3.64		

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	04/07/2025	ND	217	109	200	1.42	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	108	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 75.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 65.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 172 @ 4' (H251996-92)

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	04/07/2025	ND	2.19	109	2.00	17.2		
Toluene*	<0.050	0.050	04/07/2025	ND	2.28	114	2.00	13.6		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.60	130	2.00	12.5		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.95	133	6.00	12.1		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/07/2025	ND	432	108	400	3.64		

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	04/07/2025	ND	217	109	200	1.42	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	108	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 60.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 56.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 173 @ 4' (H251996-93)

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	04/07/2025	ND	2.19	109	2.00	17.2	
Toluene*	<0.050	0.050	04/07/2025	ND	2.28	114	2.00	13.6	
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.60	130	2.00	12.5	
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.95	133	6.00	12.1	
Total BTEX	<0.300	0.300	04/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/07/2025	ND	432	108	400	3.64	

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	04/07/2025	ND	217	109	200	1.42	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	108	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 69.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.2 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/03/2025
 Reported: 04/09/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/03/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 174 @ 4' (H251996-94)

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	04/07/2025	ND	2.19	109	2.00	17.2		
Toluene*	<0.050	0.050	04/07/2025	ND	2.28	114	2.00	13.6		
Ethylbenzene*	<0.050	0.050	04/07/2025	ND	2.60	130	2.00	12.5		
Total Xylenes*	<0.150	0.150	04/07/2025	ND	7.95	133	6.00	12.1		
Total BTEX	<0.300	0.300	04/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/07/2025	ND	432	108	400	3.64		

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	04/07/2025	ND	217	109	200	1.42	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	215	108	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 65.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 61.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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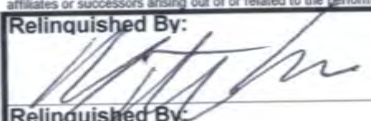
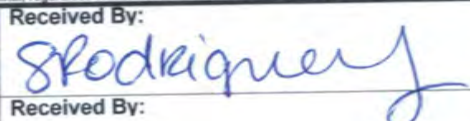
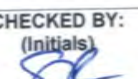
A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 10

(575) 393-2326 FAX (575) 393-2470 Company Name: Etech Environmental & Safety Solutions, Inc. Project Manager: Lance Crenshaw Address: 2617 West Marland City: Hobbs State: NM Zip: 88240 Phone #: (575) 264-9884 Fax #: Project #: 18228 Project Owner: Mewbourne Project Name: Chili Verde 23-24 Fed Com 716H Project Location: 32.477651, -104.167798 Sampler Name: Aaron Rios				BILL TO P.O. #: Company: Mewbourne Attn: Connor Walker Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																																			
				Chloride TPH (8015M) BTEX (8021B)																																							
FOR LAB USE ONLY Lab I.D. Sample I.D.				MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				PRESERV. ACID/BASE: ICE / COOL OTHER:				SAMPLING DATE TIME																															
				(GRAB OR (C)OMP. # CONTAINERS																																							
1 2 3 4 5 6 7 8 9 10																																											
FL 42 @ 4'				C 1				X				X				4/3/25				X				X				X															
FL 81 @ 4'				C 1				X				X				4/3/25				X				X				X															
FL 82 @ 4'				C 1				X				X				4/3/25				X				X				X															
FL 83 @ 4'				C 1				X				X				4/3/25				X				X				X															
FL 84 @ 4'				C 1				X				X				4/3/25				X				X				X															
FL 85 @ 4'				C 1				X				X				4/3/25				X				X				X															
FL 86 @ 4'				C 1				X				X				4/3/25				X				X				X															
FL 87 @ 4'				C 1				X				X				4/3/25				X				X				X															
FL 88 @ 4'				C 1				X				X				4/3/25				X				X				X															
FL 89 @ 4'				C 1				X				X				4/3/25				X				X				X															
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Relinquished By:  Date: 4-3-25 Time: 1450				Received By:  Date: Time:				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: pm@etechenv.com				REMARKS:																															
Relinquished By: Date: Time:				Received By:				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor -0.6°C 10.3				Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C																															
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C -5.5 Corrected Temp. °C -5.2				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No				CHECKED BY: (Initials) 																															

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 10

Page 98 of 106

(575) 393-2326 FAX (575) 393-2476				BILL TO				ANALYSIS REQUEST																					
Company Name: Etech Environmental & Safety Solutions, Inc.				P.O. #:				<div style="display: flex; justify-content: space-around; font-weight: bold;"> Chloride TPH (8015M) BTEX (8021B) </div>																					
Project Manager: Lance Crenshaw				Company: Mewbourne																									
Address: 2617 West Marland				Attn: Connor Walker																									
City: Hobbs	State: NM	Zip: 88240			Address:																								
Phone #: (575) 264-9884	Fax #:		City:		State:																								
Project #: 18228		Project Owner: Mewbourne		Zip:		Phone #:																							
Project Name: Chili Verde 23-24 Fed Com 716H				Fax #:																									
Project Location: 32.477651, -104.167798																													
Sampler Name: Aaron Rios																													
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
HQSF96					C 1		X				X		4/3/25		X	X	X												
					C 1		X				X		4/3/25		X	X	X												
					C 1		X				X		4/3/25		X	X	X												
					C 1		X				X		4/3/25		X	X	X												
					C 1		X				X		4/3/25		X	X	X												
					C 1		X				X		4/3/25		X	X	X												
					C 1		X				X		4/3/25		X	X	X												
					C 1		X				X		4/3/25		X	X	X												
					C 1		X				X		4/3/25		X	X	X												
					C 1		X				X		4/3/25		X	X	X												

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Relinquished By:		Date: 4-3-25	Received By:	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:		
		Time: 1450		All Results are emailed. Please provide Email address: pm@etechenv.com		
Relinquished By:		Date:	Received By:	REMARKS:		
		Time:				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: -5.5° Corrected Temp. °C: -5.2°	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) 	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor -0.6°C to 0.3	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 10

Page 99 of 106

[illegible]

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Relinquished By: 		Date: 4/3/25	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Phone #:
		Time: 1450		All Results are emailed. Please provide Email address: pm@etechenv.com
Relinquished By:		Date:	Received By:	REMARKS:
		Time:		
Delivered By: (Circle One)	Observed Temp. °C -5.5	Sample Condition Cool Intact	CHECKED BY: (Initials) 	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C -5.3	<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
				<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C
				Thermometer ID #140 Correction Factor -0.3°C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 4 of 10

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																										
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																										
Address: 2617 West Marland				Company: Mewbourne																														
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																														
Phone #: (575) 264-9884 Fax #:				Address:																														
Project #: 18228 Project Owner: Mewbourne				City:																														
Project Name: Chili Verde 23-24 Fed Com 716H				State: Zip:																														
Project Location: 32.477651, -104.167798				Phone #:																														
Sampler Name: Aaron Rios				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																				
H251994																																		
31	FL 110 @ 4'	C	1			X				X			4/3/25		X	X	X																	
32	FL 111 @ 4'	C	1			X				X			4/3/25		X	X	X																	
33	FL 112 @ 4'	C	1			X				X			4/3/25		X	X	X																	
34	FL 113 @ 4'	C	1			X				X			4/3/25		X	X	X																	
35	FL 114 @ 4'	C	1			X				X			4/3/25		X	X	X																	
36	FL 115 @ 4'	C	1			X				X			4/3/25		X	X	X																	
37	FL 116 @ 4'	C	1			X				X			4/3/25		X	X	X																	
38	FL 117 @ 4'	C	1			X				X			4/3/25		X	X	X																	
39	FL 118 @ 4'	C	1			X				X			4/3/25		X	X	X																	
40	FL 119 @ 4'	C	1			X				X			4/3/25		X	X	X																	

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Relinquished By:		Date: 4/3/25 Time: 1450	Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Date:	Received By:		All Results are emailed. Please provide Email address: pm@etechnv.com	
Time:				REMARKS:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: -5.5 Corrected Temp. °C: -5.2	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY:	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
					Thermometer ID #140 Correction Factor -0.6°C	Observed Temp. °C Corrected Temp. °C

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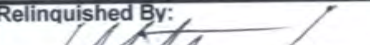


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: 		Date: 4-3-25	Time: 1450	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	All Results are emailed. Please provide Email address: pm@etechnv.com
Relinquished By:		Date:	Time:	Received By:	REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C: -5.5	Corrected Temp. °C: -5.2	Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) 	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor -0.6°C TO-3
Sampler - UPS - Bus - Other:				Bacteria (only) Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Observed Temp. °C: Corrected Temp. °C:



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Name: Etch Environmental & Safety Solutions, Inc.										BILL TO			ANALYSIS REQUEST																																				
Project Manager: Lance Crenshaw										P.O. #:			<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																																				
Address: 2617 West Marland										Company: Mewbourne																																							
City: Hobbs State: NM Zip: 88240										Attn: Connor Walker																																							
Phone #: (575) 264-9884 Fax #:										Address:																																							
Project #: 18228 Project Owner: Mewbourne										City:																																							
Project Name: Chili Verde 23-24 Fed Com 716H										State: Zip:																																							
Project Location: 32.477651, -104.167798										Phone #:																																							
Sampler Name: Aaron Rios										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															
H25994										C 1				X												X		4/3/25						X		X		X											
51		FL 130 @ 4'								C 1				X												X		4/3/25						X		X		X											
52		FL 131 @ 4'								C 1				X												X		4/3/25						X		X		X											
53		FL 132 @ 4'								C 1				X												X		4/3/25						X		X		X											
54		FL 133 @ 4'								C 1				X												X		4/3/25						X		X		X											
55		FL 134 @ 4'								C 1				X												X		4/3/25						X		X		X											
56		FL 135 @ 4'								C 1				X												X		4/3/25						X		X		X											
57		FL 136 @ 4'								C 1				X												X		4/3/25						X		X		X											
58		FL 137 @ 4'								C 1				X												X		4/3/25						X		X		X											
59		FL 138 @ 4'								C 1				X												X		4/3/25						X		X		X											
60		FL 139 @ 4'								C 1				X												X		4/3/25						X		X		X											

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Relinquished By:		Date: 4-3-25 Time: 1450		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Date:		Received By:		All Results are emailed. Please provide Email address: pm@etechnv.com	
Time:						REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C: -5.5		Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -5.2		CHECKED BY:		Thermometer ID #140 Correction Factor -0.8°C +0.3°C	
						Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	




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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: 		Date: 4-3-25 Time: 1450		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One)		Observed Temp. °C -5.5		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		CHECKED BY: (Initials) 	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -5.2		Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor -0.6°C +0.3	
						Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST													
Project Manager: Lance Crenshaw				P.O. #:				Chloride	TPH (8015M)	BTEX (8021B)											
Address: 2617 West Marland				Company: Mewbourne																	
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																	
Phone #: (575) 264-9884 Fax #:				Address:																	
Project #: 18228 Project Owner: Mewbourne				City:																	
Project Name: Chili Verde 23-24 Fed Com 716H				State: Zip:																	
Project Location: 32.477651, -104.167798				Phone #:																	
Sampler Name: Aaron Rios				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							
71	FL 151 @ 4'	C	1		X					X			4/3/25		X	X	X				
72	FL 152 @ 4'	C	1		X					X			4/3/25		X	X	X				
73	FL 153 @ 4'	C	1		X					X			4/3/25		X	X	X				
74	FL 154 @ 4'	C	1		X					X			4/3/25		X	X	X				
75	FL 155 @ 4'	C	1		X					X			4/3/25		X	X	X				
76	FL 156 @ 4'	C	1		X					X			4/3/25		X	X	X				
77	FL 157 @ 4'	C	1		X					X			4/3/25		X	X	X				
78	FL 158 @ 4'	C	1		X					X			4/3/25		X	X	X				
79	FL 159 @ 4'	C	1		X					X			4/3/25		X	X	X				
80	FL 160 @ 4'	C	1		X					X			4/3/25		X	X	X				

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Relinquished By: 		Date: 4.3.25	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
		Time: 1450		All Results are emailed. Please provide Email address: pm@etechenv.com
Relinquished By:		Date:	Received By:	REMARKS:
		Time:		
Delivered By: (Circle One)	Observed Temp. °C -5.5	Sample Condition Cool Intact	CHECKED BY: (Initials) 	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C -5.2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID #140	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
		<input type="checkbox"/> No <input type="checkbox"/> No	Correction Factor -0.6°C	<input type="checkbox"/> Yes <input type="checkbox"/> No
				Corrected Temp. °C



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 West Marland				Company: Mewbourne																							
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																							
Phone #: (575) 264-9884 Fax #:				Address:																							
Project #: 18228 Project Owner: Mewbourne				City:																							
Project Name: Chili Verde 23-24 Fed Com 716H				State: Zip:																							
Project Location: 32.477651, -104.167798				Phone #:																							
Sampler Name: Aaron Rios				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													
H25996																											
81	FL 161 @ 4'	C	1			X				X			4/3/25		X	X	X										
82	FL 162 @ 4'	C	1			X				X			4/3/25		X	X	X										
83	FL 163 @ 4'	C	1			X				X			4/3/25		X	X	X										
84	FL 164 @ 4'	C	1			X				X			4/3/25		X	X	X										
85	FL 165 @ 4'	C	1			X				X			4/3/25		X	X	X										
86	FL 166 @ 4'	C	1			X				X			4/3/25		X	X	X										
87	FL 167 @ 4'	C	1			X				X			4/3/25		X	X	X										
88	FL 168 @ 4'	C	1			X				X			4/3/25		X	X	X										
89	FL 169 @ 4'	C	1			X				X			4/3/25		X	X	X										
90	FL 170 @ 4'	C	1			X				X			4/3/25		X	X	X										

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Relinquished By:		Date: 4-3-25 Time: 1450	Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Date:	Received By:		All Results are emailed. Please provide Email address: pm@etechenv.com	
Time:				REMARKS:		
Delivered By: (Circle One)		Observed Temp. °C: -5.5	Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -5.2	CHECKED BY:		Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Observed Temp. °C: Corrected Temp. °C:	
				Thermometer ID #140 Correction Factor -0.6°C TO -0.3°C		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: 		Date: 4-3-25	Time: 1450	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:	Time:	Received By:	REMARKS:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: -5.5	Corrected Temp. °C: -5.2	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) 	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor -0.6°C	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C



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

April 10, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 04/04/25 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/04/2025
 Reported: 04/10/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 144 @ 4' (H252024-01)

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	04/08/2025	ND	2.04	102	2.00	0.692	
Toluene*	<0.050	0.050	04/08/2025	ND	1.93	96.4	2.00	1.17	
Ethylbenzene*	<0.050	0.050	04/08/2025	ND	2.02	101	2.00	0.103	
Total Xylenes*	<0.150	0.150	04/08/2025	ND	6.39	106	6.00	0.564	
Total BTX	<0.300	0.300	04/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/08/2025	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	04/08/2025	ND	202	101	200	2.87	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	205	102	200	2.81	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane 94.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.7 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 1

Page 4 of 4

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																																					
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																																					
Address: 2617 West Marland				Company: Mewbourne																																									
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																																									
Phone #: (575) 264-9884 Fax #:				Address:																																									
Project #: 18228 Project Owner: Mewbourne				City:																																									
Project Name: Chili Verde 23-24 Fed Com 716H				State: Zip:																																									
Project Location: 32.477651, -104.167798				Phone #:																																									
Sampler Name: Aaron Rios				Fax #:																																									
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(GRAB OR (C)COMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING																													
										GROUNDWATER				WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
11250004		1		FL 144 @ 4'		C		1								X								X				4/4/25				X X X													

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:		Date: 4-4-25		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 1450		Time: 1450				All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:							
Delivered By: (Circle One)		Observed Temp. °C 85-		Sample Condition Cool Intact		CHECKED BY:	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -8.02		<input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: 4-4-25	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #140	
						Correction Factor -0.6°C +0.8°C	
						Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
						Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
						<input type="checkbox"/> Yes <input type="checkbox"/> No	
						Corrected Temp. °C	



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

April 11, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 04/10/25 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/10/2025
 Reported: 04/11/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/09/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 70 @ 5' (H252132-01)

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	04/10/2025	ND	2.14	107	2.00	0.0344	
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106	
Total BTEx	<0.300	0.300	04/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	04/10/2025	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	04/10/2025	ND	217	109	200	3.45	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	209	104	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 90.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.7 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/10/2025
 Reported: 04/11/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/09/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 71 @ 5' (H252132-02)

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	04/10/2025	ND	2.14	107	2.00	0.0344	
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106	
Total BTEX	<0.300	0.300	04/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	04/10/2025	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	04/10/2025	ND	217	109	200	3.45	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	209	104	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 89.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.1 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/10/2025
 Reported: 04/11/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/09/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 75 @ 5' (H252132-03)

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	04/10/2025	ND	2.14	107	2.00	0.0344	
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106	
Total BTEX	<0.300	0.300	04/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	04/10/2025	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	04/10/2025	ND	217	109	200	3.45	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	209	104	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 82.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.3 % 40.6-153

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



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

Analytical Results For:

Etech Environmental & Safety Solutions
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/10/2025
 Reported: 04/11/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/09/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 80 @ 5' (H252132-04)

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	04/10/2025	ND	2.14	107	2.00	0.0344	
Toluene*	<0.050	0.050	04/10/2025	ND	2.02	101	2.00	1.50	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.01	101	2.00	0.905	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.24	104	6.00	0.106	
Total BTEX	<0.300	0.300	04/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	04/10/2025	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	04/10/2025	ND	217	109	200	3.45	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	209	104	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.7 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 1

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																											
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																											
Address: 2617 West Marland				Company: SEE REMARKS																															
City: Hobbs State: NM Zip: 88240				Attn:																															
Phone #: (575) 264-9884 Fax #:				Address:																															
Project #: 18228 Project Owner: Mewbourne				City:																															
Project Name: Chili Verde 23-24 Fed Com 716H				State: Zip:																															
Project Location: 32.477651, -104.167798				Phone #:																															
Sampler Name: Aaron Rios				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																					
1		FL 70 @ 5'		C 1						X				X		4/9/25		X		X		X													
2		FL 71 @ 5'		C 1						X				X		4/9/25		X		X		X													
3		FL 75 @ 5'		C 1						X				X		4/9/25		X		X		X													
4		FL 80 @ 5'		C 1						X				X		4/9/25		X		X		X													

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable services. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:		Date: 4-10-25		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 8:15						All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
						24 Hour Rush - Bill analytical to Mewbourne C/O Connor Walker and rush charges to Etech C/O Lance Crenshaw.	
Delivered By: (Circle One)		Observed Temp. °C: -7.5		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -7.2		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: AP 4-10-25	
				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
						Thermometer ID #140	
						Correction Factor -0.6°C to -0.3°C	
						Bacteria (only) Sample Condition	
						Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	
						Observed Temp. °C	
						Corrected Temp. °C	



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

April 14, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 04/11/25 8:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/11/2025
 Reported: 04/14/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/09/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 162 @ 5' (H252160-01)

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	04/11/2025	ND	2.15	107	2.00	1.23	
Toluene*	<0.050	0.050	04/11/2025	ND	2.18	109	2.00	1.36	
Ethylbenzene*	<0.050	0.050	04/11/2025	ND	2.12	106	2.00	1.72	
Total Xylenes*	<0.150	0.150	04/11/2025	ND	6.24	104	6.00	1.77	
Total BTX	<0.300	0.300	04/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	04/11/2025	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	04/11/2025	ND	181	90.4	200	0.988	
DRO >C10-C28*	<10.0	10.0	04/11/2025	ND	185	92.5	200	0.581	
EXT DRO >C28-C36	<10.0	10.0	04/11/2025	ND					

Surrogate: 1-Chlorooctane 87.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.3 % 40.6-153

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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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

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

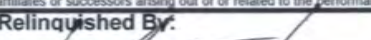
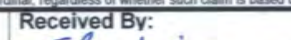

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Page 4 of 4

[illegible]

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Relinquished By: 		Date: 4.11.25	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
		Time: 0821		All Results are emailed. Please provide Email address: pm@etechenv.com
Relinquished By:		Date:	Received By:	REMARKS:
		Time:		24 Hour Rush - Bill analytical to Mewbourne C/O Connor Walker and rush charges to Etech C/O Lance Crenshaw.
Delivered By: (Circle One)	Observed Temp. °C -5.8	Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C -5.5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Thermometer ID #140 Correction Factor 0.5°C to -0.3°C
				Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C



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

April 25, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 04/21/25 15:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/21/2025
 Reported: 04/25/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 173 (H252368-01)

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	04/24/2025	ND	1.76	88.0	2.00	12.6	
Toluene*	<0.050	0.050	04/24/2025	ND	1.79	89.6	2.00	16.1	
Ethylbenzene*	<0.050	0.050	04/24/2025	ND	1.87	93.6	2.00	19.0	
Total Xylenes*	<0.150	0.150	04/24/2025	ND	5.71	95.1	6.00	19.6	
Total BTX	<0.300	0.300	04/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/23/2025	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	04/23/2025	ND	221	111	200	3.80	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	216	108	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 87.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.3 % 40.6-153

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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/21/2025
 Reported: 04/25/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 174 (H252368-02)

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	04/24/2025	ND	1.76	88.0	2.00	12.6		
Toluene*	<0.050	0.050	04/24/2025	ND	1.79	89.6	2.00	16.1		
Ethylbenzene*	<0.050	0.050	04/24/2025	ND	1.87	93.6	2.00	19.0		
Total Xylenes*	<0.150	0.150	04/24/2025	ND	5.71	95.1	6.00	19.6		
Total BTEX	<0.300	0.300	04/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/23/2025	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	04/23/2025	ND	221	111	200	3.80	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	216	108	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.9 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/21/2025
 Reported: 04/25/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 175 (H252368-03)

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	04/24/2025	ND	1.76	88.0	2.00	12.6	
Toluene*	<0.050	0.050	04/24/2025	ND	1.79	89.6	2.00	16.1	
Ethylbenzene*	<0.050	0.050	04/24/2025	ND	1.87	93.6	2.00	19.0	
Total Xylenes*	<0.150	0.150	04/24/2025	ND	5.71	95.1	6.00	19.6	
Total BTEX	<0.300	0.300	04/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/23/2025	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	04/23/2025	ND	221	111	200	3.80	
DRO >C10-C28*	<10.0	10.0	04/23/2025	ND	216	108	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	04/23/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.3 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/21/2025
 Reported: 04/25/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 176 (H252368-04)

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	04/24/2025	ND	1.76	88.0	2.00	12.6		
Toluene*	<0.050	0.050	04/24/2025	ND	1.79	89.6	2.00	16.1		
Ethylbenzene*	<0.050	0.050	04/24/2025	ND	1.87	93.6	2.00	19.0		
Total Xylenes*	<0.150	0.150	04/24/2025	ND	5.71	95.1	6.00	19.6		
Total BTEX	<0.300	0.300	04/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/23/2025	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	04/22/2025	ND	223	112	200	0.476	
DRO >C10-C28*	<10.0	10.0	04/22/2025	ND	214	107	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					

Surrogate: 1-Chlorooctane 93.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.4 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/21/2025
 Reported: 04/25/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 177 (H252368-05)

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	04/24/2025	ND	1.76	88.0	2.00	12.6		
Toluene*	<0.050	0.050	04/24/2025	ND	1.79	89.6	2.00	16.1		
Ethylbenzene*	<0.050	0.050	04/24/2025	ND	1.87	93.6	2.00	19.0		
Total Xylenes*	<0.150	0.150	04/24/2025	ND	5.71	95.1	6.00	19.6		
Total BTEX	<0.300	0.300	04/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/23/2025	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	04/22/2025	ND	223	112	200	0.476	
DRO >C10-C28*	<10.0	10.0	04/22/2025	ND	214	107	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					

Surrogate: 1-Chlorooctane 93.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.5 % 40.6-153

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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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/21/2025
 Reported: 04/25/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 178 (H252368-06)

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	04/24/2025	ND	1.76	88.0	2.00	12.6	
Toluene*	<0.050	0.050	04/24/2025	ND	1.79	89.6	2.00	16.1	
Ethylbenzene*	<0.050	0.050	04/24/2025	ND	1.87	93.6	2.00	19.0	
Total Xylenes*	<0.150	0.150	04/24/2025	ND	5.71	95.1	6.00	19.6	
Total BTEX	<0.300	0.300	04/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/23/2025	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	04/22/2025	ND	223	112	200	0.476	
DRO >C10-C28*	10.9	10.0	04/22/2025	ND	214	107	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					

Surrogate: 1-Chlorooctane 89.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.8 % 40.6-153

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

Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 1

Page 9 of 9

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Lance Crenshaw				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 West Marland				Company: Mewbourne																							
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																							
Phone #: (575) 264-9884 Fax #:				Address:																							
Project #: 18228 Project Owner: Mewbourne				City:																							
Project Name: Chili Verde 23-24 Fed Com 716H				State: Zip:																							
Project Location: 32.477651, -104.167798				Phone #:																							
Sampler Name: Aaron Rios				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													
4252368																											
1	FL 173	C	1			X					X		4/21/25		X	X	X										
2	FL 174	C	1			X					X		4/21/25		X	X	X										
3	FL 175	C	1			X					X		4/21/25		X	X	X										
4	FL 176	C	1			X					X		4/21/25		X	X	X										
5	FL 177	C	1			X					X		4/21/25		X	X	X										
6	FL 178	C	1			X					X		4/21/25		X	X	X										

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Relinquished By:		Date: 4-21-25		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 12:41						All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
Time:							
Delivered By: (Circle One)		Observed Temp. °C -4.2		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -3.9		<input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
						Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C	
						Thermometer ID #140 Correction Factor +0.6°C +0.3	
						Corrected Temp. °C	



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

April 25, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CHILI VERDE 23/24 FED COM 716 H

Enclosed are the results of analyses for samples received by the laboratory on 04/21/25 15:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 04/21/2025
 Reported: 04/25/2025
 Project Name: CHILI VERDE 23/24 FED COM 716 H
 Project Number: 18228
 Project Location: MEWBOURNE 32.477651-104.167798

Sampling Date: 04/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: BACKFILL (H252371-01)

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	04/24/2025	ND	1.76	88.0	2.00	12.6	
Toluene*	<0.050	0.050	04/24/2025	ND	1.79	89.6	2.00	16.1	
Ethylbenzene*	<0.050	0.050	04/24/2025	ND	1.87	93.6	2.00	19.0	
Total Xylenes*	<0.150	0.150	04/24/2025	ND	5.71	95.1	6.00	19.6	
Total BTX	<0.300	0.300	04/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/23/2025	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	04/22/2025	ND	223	112	200	0.476	
DRO >C10-C28*	<10.0	10.0	04/22/2025	ND	214	107	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	04/22/2025	ND					

Surrogate: 1-Chlorooctane 99.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 100 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

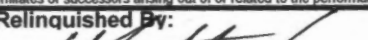
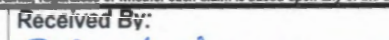

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: 		Date: 4-21-25 Time: 1541	Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date: Time:	Received By:		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: -4.2 Corrected Temp. °C: -3.9	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: (Initials) 	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor: -0.6°C TO 0.3°C	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C



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

June 20, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: APOLLO CHILI VERDE WATER TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 06/19/25 14:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	06/19/2025	Sampling Date:	06/18/2025
Reported:	06/20/2025	Sampling Type:	Soil
Project Name:	APOLLO CHILI VERDE WATER TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE (32.4780968,-104.170673)		

Sample ID: EW 12 D (H253676-01)

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	06/19/2025	ND	2.13	106	2.00	4.60	
Toluene*	<0.050	0.050	06/19/2025	ND	1.90	95.2	2.00	2.58	
Ethylbenzene*	<0.050	0.050	06/19/2025	ND	1.94	97.2	2.00	0.925	
Total Xylenes*	<0.150	0.150	06/19/2025	ND	6.03	101	6.00	0.479	
Total BTEx	<0.300	0.300	06/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-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	06/20/2025	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2025	ND	201	100	200	2.80	
DRO >C10-C28*	<10.0	10.0	06/19/2025	ND	191	95.4	200	3.72	
EXT DRO >C28-C36	<10.0	10.0	06/19/2025	ND					

Surrogate: 1-Chlorooctane 98.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.3 % 40.6-153

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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.
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

Page 1 of 1

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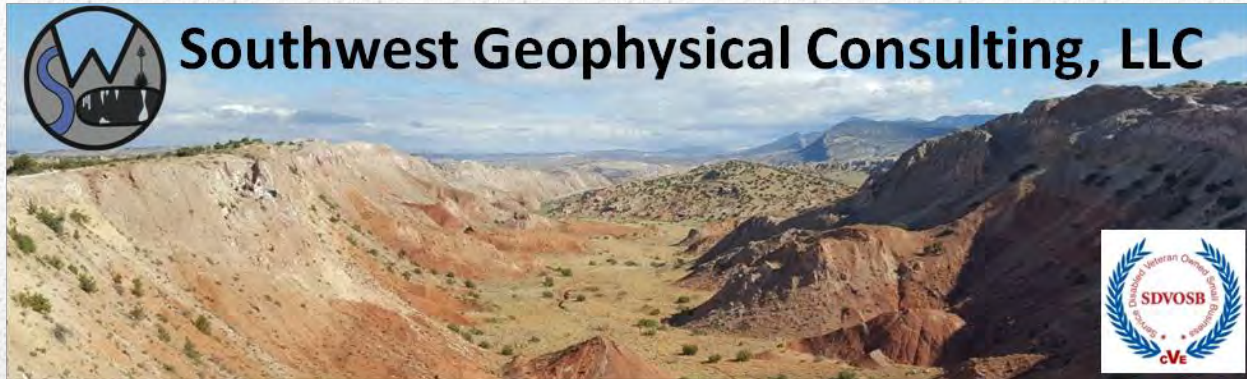
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Relinquished By: <i>Moth</i>		Date: <i>6.19.25</i>		Received By: <i>Apurva</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
		Time: <i>1452</i>				All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:				24H Rush - Bill analytical charges to Mewbourne C/O Connor Walker and rush charges to Etech C/O Lance Crenshaw.	
Delivered By: (Circle One)		Observed Temp. °C <i>-8.4</i>		Sample Condition		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <i>-8.1</i>		Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Bacteria (only) Sample Condition	
				CHECKED BY: (Initials) <i>AP</i>		Cool <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
						Thermometer ID #140 Correction Factor <i>-0.6</i> °C <i>-0.3</i>	
						Observed Temp. °C Corrected Temp. °C	

Appendix E

Karst Study Report



Environmental Karst Study Report Chile Verde Flats Release Eddy County, New Mexico

Prepared For:

**SWCA Environmental Consultants
7770 Jefferson Street NE, Suite 410
Albuquerque, NM 87109**

- ☐ **Positive within 200 feet of release footprint**
- ☒ **Negative within 200 feet of release footprint**
- ☐ **Karst Monitor Recommended**

May 12, 2024

SWCA-076-20240222

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MMXXIV

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1.0 INTRODUCTION

This report was commissioned by SWCA Environmental Consultants, Inc. (hereinafter referred to as "the client"), on February 22, 2024, for the purpose of conducting an environmental karst study within an area encompassing the Chile Verde Flats release site (hereinafter termed "CVFR") centered at N 32.477152° W 104.168743°.

1.1 Goals of this Study

The goals of this study are to conduct a surface karst inventory and provide the client with the location and description of any surface karst features located within 61 meters (200 feet) of the spill delineation boundary as defined by 19.15.29.12 NMAC and to determine whether stable ground exists within the spill boundary of the Chile Verde Flats release using electrical resistivity imaging to determining stable ground as defined by 19.15.2 NMAC Definitions^[1,2].

1.2 Summary of Findings

No surface karst features exist within the 200-foot (61-meter) zone surrounding the spill delineation boundary provided by the client. No anomalies consistent with air- or water-filled voids were found within the CVFR survey area, indicating the zone beneath the geophysical survey is stable.

The lack of surface karst features does not mean the area is not karstified and the study area may still contain buried karst features outside of the areas where the geophysical survey was conducted. Caution should be exercised during any remediation operations. Employing a Bureau of Land Management approved karst monitor on site during remediation should be considered.

1.3 Affected Environment

The CVFR project site is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region.

Karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The three primary concerns in these types of terrain are environmental issues, worker safety, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers^[3]. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **HIGH** karst occurrence zone^[4] (**Figure 1**).

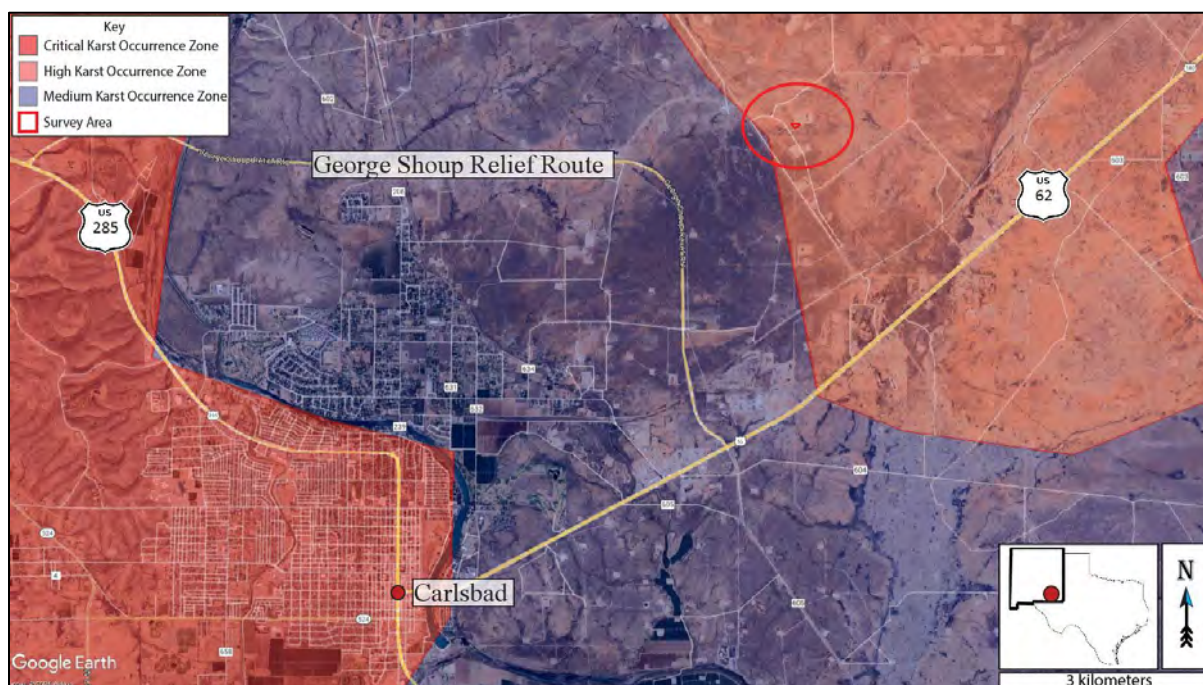


Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: April 15, 2023. Image datum: WGS-84.

A high karst occurrence zone is defined as an area in known soluble rock types that contains a high frequency of significant caves and karst features such as sinkholes, bedrock fractures that provide rapid recharge of karst aquifers, and springs that provide riparian habitat^[3].

Each location within a CKOZ or HKOZ must be assessed on an individual basis to determine the existence of surface karst features and the possibility of sub-surface karst development.

1.4 Limitations of Report

This report should be read in full. No responsibility is accepted for the use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of SWCA Environmental Consultants, Inc. in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective consulting advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results in the field should be conducted prior to using this information for remediation planning. Physical verification of geophysical results using geotechnical methods should be considered.

To the best of our knowledge, information contained in this report is accurate at the date of issue. Due to the nature of karst terrain the information in this report shall not be used beyond three years past the date of the field work provided in section **2.3.1 Surface Karst Inventory**.

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The site is located 8.7 kilometers (5.4 miles) northeast of Carlsbad, New Mexico, between Rains Road, the George Shoup Relief Route, and U.S. Highway 62 in an area known as the Alacran Hills. The study area is located within the SW $\frac{1}{4}$ section of section 14 and the SE $\frac{1}{4}$ section of section 15 of NM T21S R27E^[5] (**Figure 1** and **Figure 2**). The region has flat to rolling terrain with karstification occurring in the gypsite soils and underlying gypsum and dolomite bedrock^[6] (see section **2.2 Local Geology** for further information). The climate in this area of southeast New Mexico is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January^[7]. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map^[8] and the vegetation consists mostly of areas of blue grama, nine-awned pappus grass, burro grass and low scrub including yucca. The entire survey site is located within a BLM-CFO designated HKOZ^[4] (**Figure 1**), and within BLM-CFO managed land^[9] (**Figure 2**).

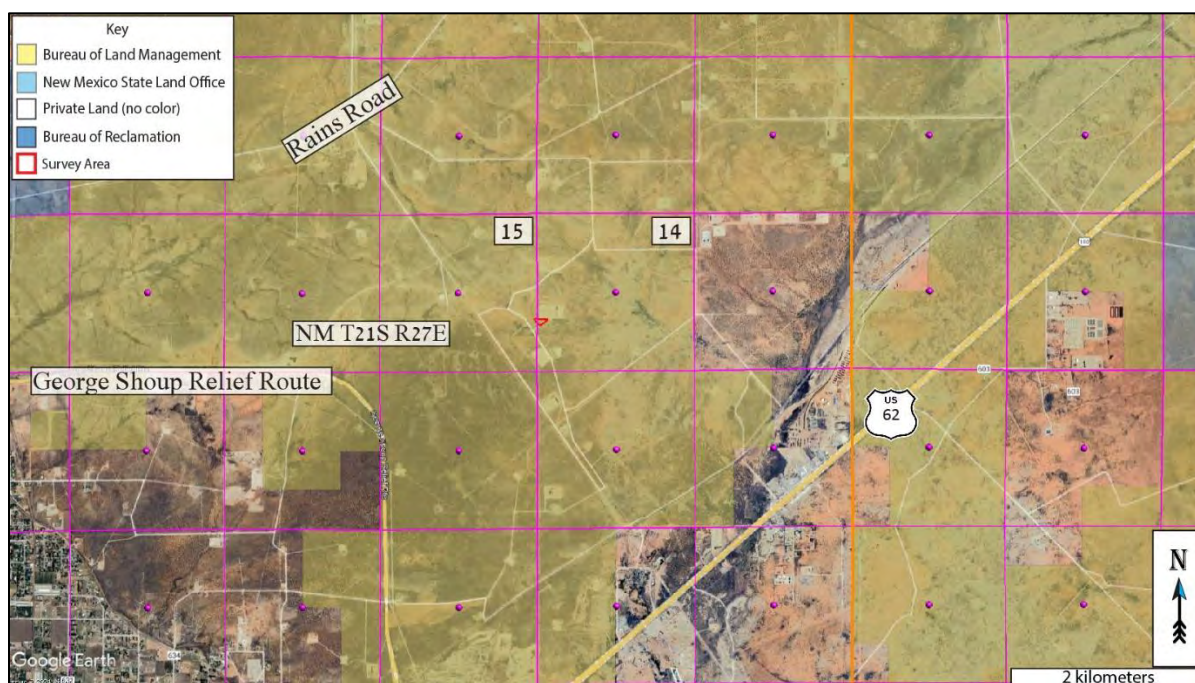


Figure 2: Land ownership^[9] and PLSS^[5] overview. Background image credit: Google Earth. Image date: April 15, 2023. Image datum: WGS-84.

2.2 Local Geology

The site for the CVFR survey is located at an elevation of 989 meters (3,245 feet), \pm 3 meters (9.8 feet), and is located within a region entirely underlain by the Permian Salado Formation (Psl) and Permian Artesia Group (Pat, not shown in the below image as it does not outcrop in this area). The area is mantled by thin gypsiferous soils (gypsite), Quaternary aeolian sands (Qe), and Quaternary piedmont gravels (Qp)^[10] up to 5 meters in depth (**Figure 3**).

The Salado Formation (Psl) is a layer of extremely soluble halite which can readily dissolve to create caves, sinkholes, and other karst features; however, due to its extremely soluble nature, only non-soluble silt and sand remain from the dissolution of this layer at the surface^[11].

The Artesia Group consists of the Greyburg and Queen Formations (Pqg), the Seven Rivers Formation (Psr), the Yates Formation (Py), and the Tansill Formation (Pt)^[12]. At this location, it is most likely that the undivided Yates and Tansill Formations immediately underlie the Quaternary units.

The Tansill Formation is mostly carbonate with minor siltstone and anhydrite. East of Highway 285 and along the Pecos River, the Tansill is predominantly dolomite. In places where the dolomitic beds are exposed, the contact with the overlying Salado gypsum and siltstone can also be seen. Both of the dolomitic and gypsiferous facies in the Tansill are prone to karst development^[12].

The Yates Formation is dominated by a quartz-rich, frosted-sandstone facies with minor carbonate, anhydrite, and siltstone. Northwest of Carlsbad, there is a near-reef facies with inter-tongued carbonates and evaporites. The lower section of the Yates transitions with the upper portion of the Seven Rivers. This area consists of dolomite, interbedded with siltstone, fine-grained sandstone, and minor gypsiferous siltstone beds that are prone to karst development^[12].

The Seven Rivers Formation consists of dolomite, dolomitic limestone, and thickly bedded anhydrite. From north to south, the Seven Rivers transitions from an evaporite facies to a basin facies near the reef escarpment. This facies is prone to karst formation, especially along the contact with the Capitan Reef Front further to the south^[12].

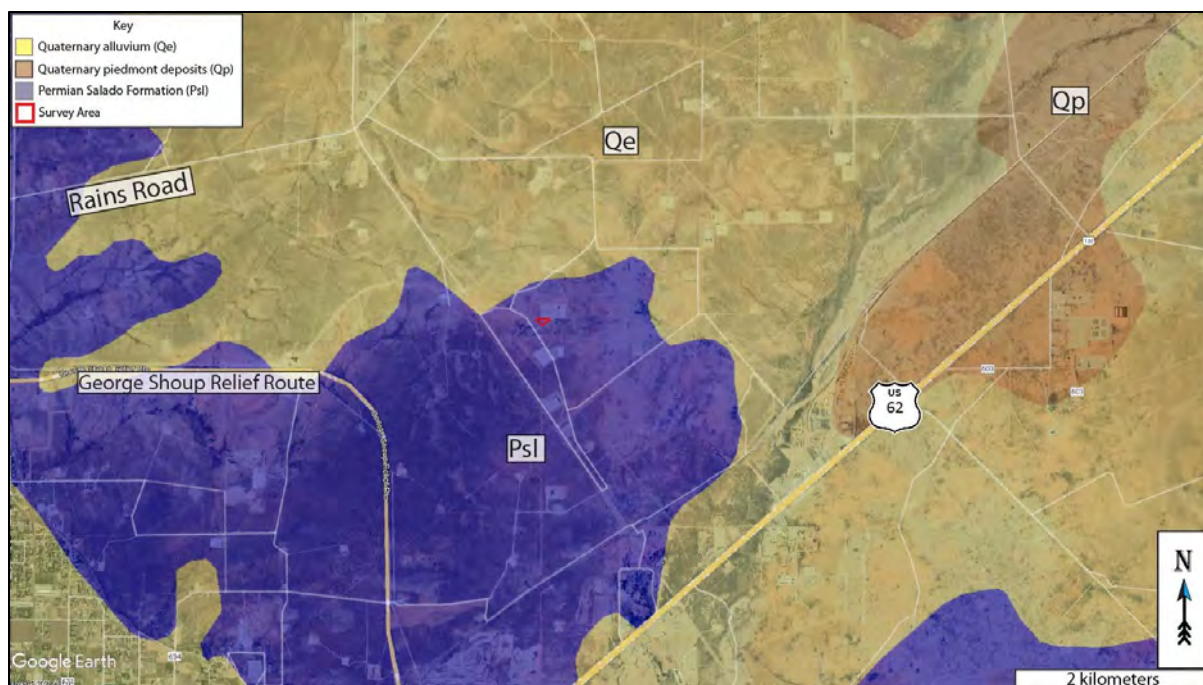


Figure 3: Geology overview. Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format^[13]. Background image credit: Google Earth. Image date: April 15, 2023. Image datum: WGS-84.

The Seven Rivers overlies the Permian Queen Formation, a calcite rich siliciclastic unit^[12]. Beneath the Queen lies the Greyburg, a dolomitic limestone. Neither of these units are close enough to the surface to be of concern at this location.

The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale^[10].

2.3 Description of Survey

2.3.1 Surface Karst Inventory

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides aerial karst surveys using drones that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys.

Aerial karst surveys are conducted at low elevation following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 4**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by a highly qualified karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report^[14].



Figure 4: Survey overview. Background image credit: Google Earth. Image date: December 21, 2019. Datum: WGS-84.

Resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they impact the facility's location. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery^[15].

The imagery for this study was collected via aerial survey by Pat Lagodney of SWCA on March 14, 2024. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Dave Decker of Southwest Geophysical Consulting on March 28, 2024.

Prior to conducting the aerial karst survey, a surface karst desk study was performed by Southwest Geophysical Consulting within 305 meters (1,000 feet) of the spill delineation boundary. The study was performed using satellite and aerial imagery from Google Earth Pro dated April 2, 2023 (please note features less than one meter in diameter are generally not visible using this method), the Southwest Geophysical Cave and Karst Database dated January 24, 2024, and the Carlsbad East, NM, 1:24,000 quad, 1985, USGS topographic map. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned no results within the survey boundary.

No surface karst features are located within 200 feet (61 meters) of the CVFR spill delineation boundary^[2].

Additionally, there are no surface karst features within the 200-meter aerial karst survey area. The lack of surface karst features does not mean the area is not karstified and the survey area may still contain buried karst features. Caution should be exercised while clearing brush and during any excavation, trenching, or construction operations. Employing a Bureau of Land Management approved karst monitor on site during these operations should be considered.

2.3.2 Geophysical Survey

For this survey, an Advanced Geosciences Inc. (AGI) SuperSting™ Wifi R8 with a multi-electrode switchbox, a 28-electrode array of 40-centimeter-long electrodes, and a tablet controller were used to image the subsurface. This survey consisted of two resistivity lines in a dipole-dipole strong gradient configuration; CVFR01 is laid out northwest to southeast and CVFR02 is laid out southwest to northeast. Both lines consisted of 28 electrodes at 3-meter spacing, resulting in 81-meter-long arrays. (**Figure 5**, **Table 1**, and **APPENDIX 7.2**). A preconfigured command file was used to run the data collection (DDSG28). This electrode configuration provided a depth of investigation of 16 meters (53 feet) and a resolution of 1.5 to 2 meters (4.9 to 6.6 feet) within the first 5 to 8 meters (16 to 26 feet) from the surface. A Leica GS18 GPS was used to record electrode locations and elevations.



Figure 5: Survey overview. Two survey lines (denoted with white numbers) were conducted with 28 electrodes each at 3-meter spacing (yellow dots denoted with blue numbers). Background image credit: Google Earth. Image date: April 15, 2023. Image datum: WGS-84.

APPENDIX 7.2 provides a detailed list of each electrode number, location in latitude/longitude (decimal degree format), and elevation in meters. EarthImager™ 2D software was used to download and process the data and to provide the model used to make our interpretations (**Table 2**). **NOTE:** Due to the proximity and orientation of infrastructure the resistivity survey could not be conducted on the west end (pipeline) or the east end (tank battery). The design of the survey and the orientation of each of the lines provides the information necessary to make the determination of “stable ground” at this site.

A typical starting model was used for the data processing due to the two-layer model of the geology in the area; specifically, generally high-resistivity gypsum and dolomite at the surface and low-resistivity saturated gypsum and dolomite bedrock at depth. The starting model used was “average apparent resistivity” and a default inversion setting of “surface,” with a minimum apparent resistivity set to 0.1 Ohm-meters (Ohm-m or Ω -m) and a max apparent resistivity set to 100,000 Ω -m (**Table 2**).

All field work, including setup, stow, and travel, was completed by Garrett Jorgensen Olague, Britt Bommer, and Steven Kesler on April 24, 2024.

3.0 RESULTS

Electrical resistivity tomography forms images of the subsurface by causing a current to flow through the rock and soil and then measuring the resistance of these materials as the current flows through them. This measurement is taken many times and the resulting data, once processed, is used to produce a model of the subsurface (**Figure 6**). This model is produced using "non-unique" solutions, which means that there are many models and interpretations which will satisfy the data. Using experience and knowledge of the local geology, a high-confidence model can be established and used to develop an accurate understanding of what lies below the surface. This survey was conducted with the express purpose of locating subsurface voids and does not purport to find paleokarst (old, non-active karst features that have been filled in with sand and sediment) or nascent karst features below the resolution limit of the survey.

The results of this study indicate a well-layered geologic system with resistivities between 5 and 150 Ohm-m with occasional areas of up to 700 Ohm-m (**Figure 6**). Please keep in mind when viewing the 2D inverted resistivity sections that color maps can be widely different for each view. Always check the color map located on the right side of the image when viewing the 2D images to ensure you understand the range of resistivities presented. Distances along the top and depths along the left side are in meters. The color map along the right side is in Ohm-m. Due to the nature of the survey, shallower zones have higher resolution between electrodes than deeper zones; therefore, small features at depth will not be visible.

One area of higher-than-average resistivity exists under line CVFR01. Areas of lower-than-average resistivity (4.5 to 5.5 Ohm-m) exist both at the surface and at depth within the survey area (**Figure 6**).

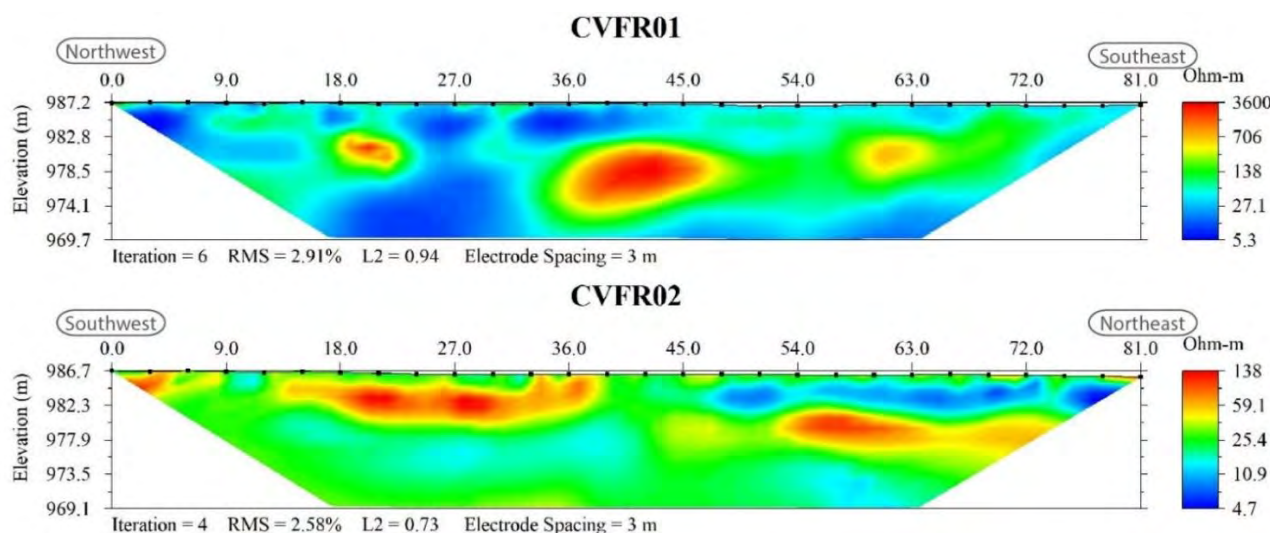


Figure 6: 2D inverted resistivity section. Reds and oranges indicate higher resistivity values. Yellows and greens are medium resistivity values. Blues are low resistivity values. Please note that the color scale is relative, and that even the highest values in these sections are lower than what is typically seen in the region.

4.0 DISCUSSION

No anomalies consistent with large (greater than 2-meter diameter) air- or water-filled voids are found within the CVFR survey area. Small solutionally enlarged voids or fractures at or near the resolution limit of the survey (1.5 – 2.0 meters) may be present. The higher-than-average resistivity area located underneath line CVFR01 is interpreted to be either a more resistant sandstone layer, possibly an old river channel, or a lens of dry halite. Other slightly higher-than-average resistivity areas less than 10 meters beneath the surface are interpreted as dry caliche or gypsite soils. Due to their low resistivity values when compared with significant subsurface voids, these features should not be a concern during remediation efforts. Areas of moderate resistivity (reds, yellows, and greens) near the surface are interpreted as dry caliche soils and gypsum bedrock of the Artesia Group^[16] (**Figure 6** and **Figure 7**).

Low resistivity areas between 5 – 15 Ohm-m may either represent fluid from the brine release, moist to saturated subsurface remnants of the Salado Formation, or a layer of either clays and halite lenses or moist or saturated layers within the Artesia Group.

Please remember that these are interpretations made from knowledge of the local subsurface materials and experience. They remain interpretations until verified by geotechnical methods.

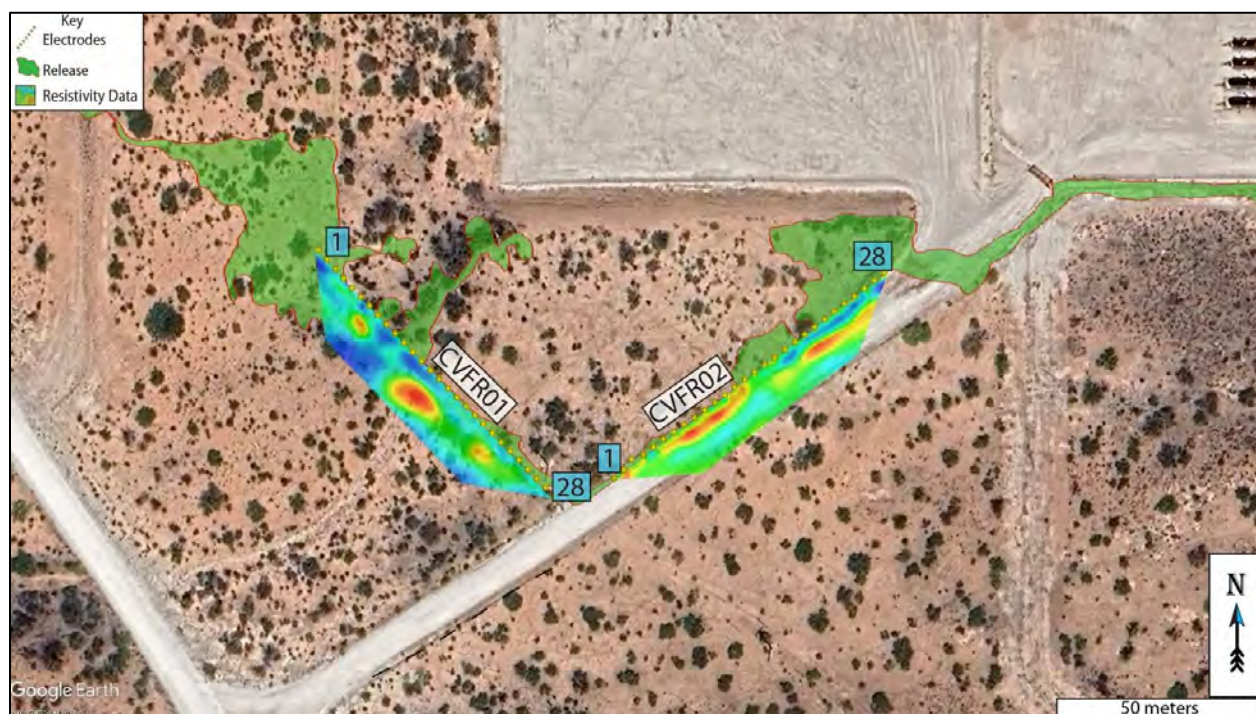


Figure 7: Data overlay. Colored trapezoids are 2D inverted resistivity lines. Background image credit: Google Earth. Image date: April 15, 2023.

Within karst terrains like the project site, small air- or sediment-filled voids and/or brecciated zones and solutionally enlarged fractures that are below the resolution limit of the survey (1.5 – 2.0 meters) may exist; these may be encountered during excavation, and if so, should be evaluated by a karst specialist prior to continued work. Employing a BLM-CFO approved karst monitor on site during activities in this area should be considered.

5.0 RECOMMENDATIONS

- The CVFR survey contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary and no shallow anomalies interpreted as large voids or related karst features that would present a danger to equipment operators.
- Intercepting a void during remediation is unlikely, but still possible. Small voids or solutionally enlarged fractures below the resolution limit of the survey may be encountered.
- When conducting any remediation activities in this area, employing a BLM-CFO approved karst monitor on site should be considered.

6.0 Disclosure Statement

High karst occurrence zones are prone to rapid karst formation and warrants careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process.

Mitigation measures for any karst features revealed during excavation shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Vigilance during remediation activities is paramount. If voids are encountered during excavation, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO-approved karst contractor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.

Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive

caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports, karst feature investigations, and geophysical reports commissioned at the request of the land manager should be submitted to:

BLM-CFO: blm_nm_karst@blm.gov

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

6.0 REFERENCES

- 1 Decker, D. & Jorgensen, G. L. *Environmental Karst Surveys White Paper* (Southwest Geophysical Consulting, LLC, 2024).
- 2 Division, O. C. *Title 19, Chapter 15, Part 29* (Oil Conservation Division, 2018).
- 3 Goodbar, J. R. Vol. BLM Management Handbook H-8380-1 (ed Carlsbad Field Office) 59 (Bureau of Land Management, Denver, CO, 2015).
- 4 Rybacki, K. (Bureau of Land Management - Carlsbad Field Office, 2020).
- 5 Earthpoint. *Earthpoint Tools for Google Earth*, <<https://www.earthpoint.us/Townships.aspx>> (2022).
- 6 Decker, D. D., Land, L. & Luke, B. Characterization of Playa Lakes in the Gypsum Karst of Southeastern New Mexico and West Texas, USA. *Oklahoma Geological Survey Circular 113* **113** (2021).
- 7 W.R.C.C. *National Climate Data Center 1981-2010 Normal Climate Summary for Carlsbad, New Mexico (291469)*, (2010).
- 8 Whitehead, W. & Flynn, C. *Plant Utilization in Southeastern New Mexico: Botany, Ethnobotany, and Archaeology*. (Bureau of Land Management, Carlsbad Field Office, 2017).
- 9 NMSLO. Digital overlay (KML) of the surface land ownership in New Mexico (New Mexico State Land Office, Santa Fe, NM, 2016).
- 10 Scholle, P. A. *Geologic Map of New Mexico*. (2003).
- 11 Austin, G. S. *Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas*. Vol. Circular 159 (New Mexico Bureau of Mines and Mineral Resources, 1978).
- 12 Silver, B. A. & Todd, R. G. Permian Cyclic Strata, Northern Midland and Delaware Basins, West Texas and Southeastern New Mexico. *The American Association of Petroleum Geologists Bulletin* **53**, 2223 - 2251 (1969).
- 13 Green, G. N. & Jones, G. E. *The Digital Geologic Map of New Mexico in ARC/INFO Format*, <<https://mrdata.usgs.gov/geology/state/state.php?state=NM>> (1997).
- 14 Whitehead, W., Bandy, M. & Decker, D. Protocol for Using UAV Photography for Rapid Assessment of Karst Features in Southeast New Mexico. *Proceedings of the 2022 Cave and Karst Management Symposium* (2022).
- 15 Decker, D. D. & Jorgensen, G. L. in *Southwest Geophysical Cave and Karst Database* (ed LLC Southwest Geophysical Consulting) (Albuquerque, NM, 2023).
- 16 Hill, C. A. *Geology of the Delaware Basin, Guadalupe, Apache and Glass Mountains, New Mexico and West Texas*. Vol. 96-39 (Permian Basin Section - SEPM, 1996).

7.0 APPENDICES

7.1 Glossary of Terms

ACEC	Area of Critical Environmental Concern
AGI	Advanced Geosciences Inc.
BLM-CFO	Bureau of Land Management - Carlsbad Field Office
brecciated	Fractured rock caused by faulting or collapse.
caprock-collapse sinkhole	Collapse of roof-spanning rock into a cave or void.
cave	Natural opening at the surface large enough for a person to enter.
cover-collapse sinkhole	Collapse of roof-spanning soil or clay ground cover into a subsurface void.
ERI	Electrical Resistivity Imaging
GPS	Global Positioning System
grike	A solutionally enlarged, vertical, or sub-vertical joint or fracture.
(H)	High confidence modifier for a PKF. This is typically reserved for a feature that is definitely karst but has not been confirmed in the field.
HKOZ	High Karst Occurrence Zone
InSAR	Interferometric Synthetic Aperture Radar. A method by which radar signals from satellites are processed to determine the amount and rate of subsidence of an area as well as whether the area is actively subsiding.
karst	A landscape containing solutional features such as caves, sinkholes, swallets, and springs.
(L)	Low confidence modifier for a PKF. This is typically a feature that cannot be ruled out as karst but is most likely NOT karst related. This modifier may also be used for pseudokarst features.
LED	Locally enclosed depression. A natural depression on the surface that collects rainwater. Some contain swallets and/or caves, others do not.
(M)	Medium confidence modifier for PKF. This is an ambiguous feature that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes, pseudokarst).
MKOZ	Medium Karst Occurrence Zone
NCRC	National Cave Rescue Commission
NKF	Non-karst feature. Used for features originally identified as PKF that have been subsequently identified in the field as non-karst related. This term may also be used for pseudokarst features.
NMSLO	New Mexico State Land Office
Ohm-m	Ohm-meter, a unit of measurement for resistivity. Sometimes abbreviated Ω -m.

paleokarst	Previously formed karst features that have been filled in by erosion and/or deposition of minerals.
Pat	Permian Artesia Group
Pc	Permian Capitan Formation
Pcs	Permian Castile Formation
Pdl	Permian Dewey Lake Formation
PKF	Possible karst feature. This term is reserved for features identified in satellite or aerial imagery that have NOT been visited in the field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence levels are based on field experience.
PLSS	Public Land Survey System
Pqg	Permian Queen/Greyburg Formation
Pru	Permian Rustler Formation
pseudokarst	Karst-like features (sinkholes, conduits, voids etc.) that are not formed by dissolution. These types of features include soil piping, lava tubes, and some cover-collapse and suffosion sinkholes.
Psl	Permian Salado Formation
Psr	Permian Seven Rivers Formation
Pt	Permian Tansill Formation
Py	Permian Yates Formation
Qal	Quaternary alluvium
Qe	Quaternary eolian deposits
Qp	Quaternary piedmont deposits
Qpl	Quaternary playa lake deposits
RKF	Recognized karst feature. This term is reserved for karst features that have been physically verified in the field.
SKF	Surface Karst Feature
SPAR	Small Party Assisted Rescue
suffosion sinkhole	Raveling of soil into a pre-existing void or fracture.
swallet	A natural opening in the surface, too small for a person, that drains water to an aquifer. Some are "open," meaning a void can be seen below; some are "closed," meaning they are full of sediment.
SWG	Southwest Geophysical Consulting, LLC
UTM	Universal Transverse Mercator (projected coordinates)
(V)	Field verified modifier for a PKF. This indicates that the feature has been visited by a qualified karst professional in the field and fully identified
WGS	World Geodetic System (geographic coordinates)

7.2 Electrode Data

Please see accompanying data files in **CVFR_Electrode_Points.xlsx** and **CVFR_Electrode_Points.kmz** within file **SWCA-076-20240222_CVFR_Data_Files.kmz** for detailed information on each electrode location.

Table 1: Survey Line Data Table. The .kmz file contains all the points for the survey line listed in the file name. These data are available in the accompanying files CVFR_Electrode_Points.xlsx and SWCA-076-20240222_CVFR_Data_Files.kmz.

File Name:	Completed By:	Date:
CVFR01.kmz	Garrett Jorgensen Olague – Senior Field Geologist Britt Bommer – Field Geologist Steven Kesler – Field Geologist	4/24/2024
CVFR02.kmz		

Raw data files (.stg files for EarthImager™ 2D) and processed data (.trn files, terrain files for surface correction in EarthImager™ 2D and .out files, the processed .stg files) are available upon request.

Table 2: Software Information and Settings

Software Name:	EarthImager™ 2D
Version:	2.4.4.649
Starting Model:	Average Apparent Resistivity
Default Inversion Settings:	Surface
Changes to Default Inversion Settings:	Max Apparent Resistivity = 100 kΩ-m Min Apparent Resistivity = 0.1 Ω-m

8.0 ATTESTATION

David D. Decker, PhD, PG, CPG

Chief Executive Officer, Principal Geologist

Southwest Geophysical Consulting, LLC

5117 Fairfax Dr. NW

Albuquerque, NM 87114

dave@swgeophys.com

(505) 585-2550

CERTIFICATE OF AUTHOR

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy and operated, maintained, and installed various sensor systems including magnetic, electromagnetic, radar, communications, and acoustic systems in various capacities from 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of “qualified karst professional” set out in the ASTM Standard (currently in review). I meet the definition of “qualified professional” for the purposes of ASTM E-1527.
- I am responsible for the content, compilation, and editing of all sections of report number SWCA-076-20240222 entitled, “Environmental Karst Study Report, Chile Verde Flats Release, Eddy County, New Mexico.” I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site on the date or dates mentioned in section **2.3 Description of Survey**.

- I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, October 7, 2024.



David D. Decker
PhD, CPG-12123



Appendix F

Regulatory Correspondence

From: [Lance Crenshaw](#)
To: [Enviro, OCD, EMNRD](#)
Cc: [Joel Lowry](#); jbroom@mewbourne.com; [Connor Walker](#); [Ben Arguijo](#)
Subject: Confirmation Sampling Notification
Date: Wednesday, July 12, 2023 12:11:47 PM

This email serves as notice that Etech intends to collect excavation confirmation soil samples on July 17, 2023, from the following locations/reportable release sites:

Mewbourne Oil Co – Jennings Riser- nAPP2315760661

Mewbourne Oil Co – Chile Verde Water Transfer Line - nAPP2315849467

If you have any questions or need any additional information, please contact Lance Crenshaw by phone (575-631-2532) or email lance@etechenv.com

Lance Crenshaw
Etech Environmental & Safety Solutions
575-631-2532

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Friday, January 26, 2024 2:06 PM

To: Connor Walker <cwalker@mewbourne.com>

Subject: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 246270

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2315849467, for the following reasons:

- **Variance request is denied. OCD will no longer approve liner installations for contaminant mitigation. Based on depth to groundwater data and the site being situated in a mapped high karst area, the site must be remediated to the most stringent criteria in Table 1.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 246270.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, August 14, 2024 3:31 PM
To: Connor Walker <cwalker@mewbourne.com>
Subject: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 365571

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2315849467, for the following reasons:

- **Remediation plan denied. The OCD does not accept the Environmental Karst Study Report prepared by SWCA Environmental Consultants. Proceed with this project according to high karst remediation standards pursuant to 19.15.29.12(C)4 NMAC.**
- **Every report submitted to the OCD should be a stand-alone report, containing all data associated with the release. A figure was not included showing the locations of Excavation Samples and Delineation samples.**
- **Due to this release occurring in a sensitive location, samples will need to be collected from the floor and walls of the excavation every 200 square feet. Submit a report to the OCD by 11/12/2024.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 365571.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: Jeff Broom <jbroom@mewbourne.com>
Date: December 11, 2024 at 1:40:00 PM MST
To: "Morgan, Crisha A" <camorgan@blm.gov>
Cc: Connor Walker <cwalker@mewbourne.com>
Subject:Chile Verde Water Transfer Line (nAPP2315849467) Karst Survey Concurrence

Crisha,

I hope this message finds you well. We are in the process of submitting a variance request to NMOCD regarding the Chile Verde Water Transfer Line (CVFR) release located on BLM-managed land. This area has been identified as a High Karst zone, and Mewbourne has completed a Karst survey in accordance with regulatory requirements.

Recently, NMOCD issued a Karst Potential Occurrence Zones document, which provides guidance on conducting surveys. As part of the approval process, the operator is required to demonstrate that a review of the area has been conducted and that approval has been received from any applicable Federal or State land management agencies, such as BLM or SLO. This is the primary reason we are reaching out to BLM for concurrence, which will be submitted to NMOCD as part of our request.

The results of the Karst survey indicate that there are no significant surface karst features within the 200-foot (61-meter) zone surrounding the spill delineation boundary, as summarized below:

1. No surface karst features were found within the 200-foot (61-meter) zone surrounding the spill area.
2. No anomalies consistent with air- or water-filled voids were identified, suggesting that the subsurface in the area is stable.

Given these findings, we are requesting your concurrence on the Karst survey, as it is a key component of our variance request to NMOCD. If you would like to review the full survey, I have attached it for your reference.

Please let me know if you have any questions or concerns regarding the survey, or if there are any additional steps we need to take for this request to be processed through the AFMSS system.

Thank you for your attention to this matter, and I look forward to your feedback.

Respectfully,

Jeff Broom
Mewbourne Oil Company
4801 Business Park Blvd.,
Hobbs, NM 88240
Office: 575.393.5905 ext. 5009
Mobile: 806.202.8358
Email: jbroom@mewbourne.com

From: [Connor Walker](#)
To: [Ben Arguijo](#); [Joel Lowry](#); [Lance Crenshaw](#)
Cc: [Jeff Broom](#)
Subject: FW: [EXTERNAL] FW: [EXT] nAPP2315849467 - Apollo Chile Verde Water Transfer Line - Remediation Summary & Variance Request
Date: Wednesday, February 19, 2025 3:55:10 PM
Attachments: [image001.png](#)
[Outlook-psidlmpj.png](#)
[Outlook-xc5sbheu.png](#)

From: Morgan, Crisha A <camorgan@blm.gov>
Sent: Tuesday, February 18, 2025 4:40 PM
To: Jeff Broom <jbroom@mewbourne.com>
Cc: Connor Walker <cwalker@mewbourne.com>; Lance Crenshaw <lance@etechenv.com>; Amos, James A <jamos@blm.gov>; Trautner, Ellen M <etrautner@blm.gov>
Subject: Re: [EXTERNAL] FW: [EXT] nAPP2315849467 - Apollo Chile Verde Water Transfer Line - Remediation Summary & Variance Request

Bureau of Land Management



Mewbourne Team,

I have reviewed this remediation plan and variance request with the BLM Cave/Karst Specialist and Environmental Protection Specialist Supervisor, and we are all on the same page. We have reviewed the surface and geophysical karst survey that has been provided. The BLM approves your variance request for closure to be at NMOCD table 1 requirement for a 10,000 mg/kg closure at this site to preserve the soil structure and ground stability. Top 4 ft will be required to be clean and the liner can remain in place as it has already been set. This approval is based off of the surveys completed, as no cave/karst features are directly impacted and depth to ground water proves to be greater than 50ft.

The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not re-vegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws/regulations.

If you have any questions or concerns, please let me know. Have a great day!

Crisha A. Morgan | Certified - Environmental Protection Specialist | Program Officer | COR | Spills Coordinator | Orphaned & Idled Well POC Lead
Bureau of Land Management | Carlsbad Field Office
620 E. Greene Street Carlsbad, NM 88220
Cell 575-200-8648 | Office 575-234-5987 | camorgan@blm.gov



WARNING: This document is FOR OFFICIAL USE ONLY (FOUO). It contains information that may be exempt from public release under the Freedom of Information Act (5.U.S.C. 552). It is to be controlled, stored, handled, transmitted, distributed, and disposed of in accordance with Department of Interior (DOI) policy relating to FOUO information and is not to be released to the public or other personnel who do not have need-to-know without prior approval of an authorized DOI official. FOR OFFICIAL USE ONLY

From: Jeff Broom <jbroom@mewbourne.com>
Sent: Wednesday, January 15, 2025 1:15 PM
To: Morgan, Crisha A <camorgan@blm.gov>
Cc: Connor Walker <cwalker@mewbourne.com>; Lance Crenshaw <lance@etechnv.com>
Subject: [EXTERNAL] FW: [EXT] nAPP2315849467 - Apollo Chile Verde Water Transfer Line - Remediation Summary & Variance Request

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Crisha,

Please see attached. Hope it helps. Thank you for all of the help.

From: Ben Arguijo <bena@etechnv.com>
Sent: Wednesday, October 16, 2024 4:45 PM
To: Connor Walker <cwalker@mewbourne.com>; Jeff Broom <jbroom@mewbourne.com>
Cc: Lance Crenshaw <lance@etechnv.com>
Subject: [EXT] nAPP2315849467 - Apollo Chile Verde Water Transfer Line - Remediation Summary & Variance Request

Connor/Jeff,

Attached please find the "Remediation Summary & Variance Request" that has been prepared for the Apollo Chile Verde Water Transfer Line release (nAPP2315849467). Upon your review and approval, the report is ready to be submitted to the NMOCD and BLM.

If you have any questions, comments, or concerns, please do not hesitate to contact me or Lance.

Thank you.

Respect.,
Ben

Ben J. Arguijo
Project Manager



6309 Indiana Ave., Ste. D
Lubbock, TX 79413
(432) 813-1592

From: [Connor Walker](#)
To: [Ben Arguijo](#); [Lance Crenshaw](#); [Jeff Broom](#); [Cesar Rosendo](#)
Subject: FW: [EXT] RE: [EXTERNAL] Chile Verde Updated Work Plan - Updated Karst Survey
Date: Friday, June 13, 2025 11:57:42 AM
Attachments: [image001.png](#)

From: Connor Walker
Sent: Friday, March 28, 2025 12:09 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXT] RE: [EXTERNAL] Chile Verde Updated Work Plan - Updated Karst Survey

Good Afternoon Shelly,

We will get this work scheduled ASAP, we should have a crew out there next week.

If anything comes up in the meantime, please feel free to give me a shout.

Have a great weekend!

Thank you,

Connor Walker
Sr. Engineer
Phone: 806-202-5281
Email: cwalker@mewbourne.com



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, March 28, 2025 9:51 AM
To: Connor Walker <cwalker@mewbourne.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: [EXT] RE: [EXTERNAL] Chile Verde Updated Work Plan - Updated Karst Survey

Good morning Connor,

The updated karst report that was submitted at the back of the remediation plan that was approved on 11/4/24 is accepted and as such the Table I Closure Criteria for depth to groundwater 51-100 feet will apply. The liner previously installed within the western portion of the excavation must be removed and contamination remediated at FT1, FT3, FT 5-7, FT 10-11,

FT 14-17. Entire release area will need confirmation samples collected representing no more than 400 ft² from the base of the entire excavation and no more than every 200 ft² from the sidewalls of the excavation.

Sincerely,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Connor Walker <cwalker@mewbourne.com>
Sent: Thursday, March 20, 2025 3:08 PM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: [EXTERNAL] Chile Verde Updated Work Plan - Updated Karst Survey

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Mike and Shelly,

Thanks for taking the time to meet today.

Attached is the latest work plan on the Chile Verde, it is actually the same on I submitted back in October. I was correct, the Karst Survey had been updated, however it was not as clear as I would have liked. Going forward if we ever hit an issue like this again where there's updates and this and that, I will make sure they are clearly noticeable.

I am sorry I could not point out the changes in the karst survey during our meeting, but I did a quick review once we hopped off and was able to find the changes. I extracted the original and updated karst surveys from each report and attached them above with all the changes I could find highlighted and with comments. I am pretty confident I found them all, but there could be a few that I missed. It is a little confusing but having them both up on my screen side by side or printed out in front of you with the same page up from each of them makes it a little easier to see where the changes are.

If there are any other issues with the language, please let me know and I can relay to Dr. Decker so

that he can tweak what he needs to. I think we all agree on the geoscience and meat of the report, but we want the language to be agreeable to everyone as well.

Please review when you get a chance and once we are all on the same page, we will excavate the remaining areas, sample, backfill and submit a closure report.

Thank you,

Connor Walker
Sr. Engineer
Phone: 806-202-5281
Email: cwalker@mewbourne.com



From: OCDOnline@state.nm.us
Sent: Friday, March 28, 2025 1:53 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 446686

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2315849467.

The sampling event is expected to take place:

When: 04/01/2025 @ 07:30

Where: J-15-21S-27E 0 FNL 0 FEL (32.4780968,-104.1706733)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of US-62 and George Shoup Relief Route (GPS: 32.436401, -104.179001), head N on George Shoup Relief Route for 1.17 mi, then E for 0.65 mi, then N for 0.60 mi, then E for 0.62 mi, then NW for 1.12 mi, then NE for 0.13 mi to arrive at the Chili Verde 23-24 Fed Com 716H release area (GPS: 32.477651, -104.167798).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
Sent: Friday, March 28, 2025 1:55 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 446689

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2315849467.

The sampling event is expected to take place:

When: 04/02/2025 @ 07:30

Where: J-15-21S-27E 0 FNL 0 FEL (32.4780968,-104.1706733)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of US-62 and George Shoup Relief Route (GPS: 32.436401, -104.179001), head N on George Shoup Relief Route for 1.17 mi, then E for 0.65 mi, then N for 0.60 mi, then E for 0.62 mi, then NW for 1.12 mi, then NE for 0.13 mi to arrive at the Chili Verde 23-24 Fed Com 716H release area (GPS: 32.477651, -104.167798).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
Sent: Friday, March 28, 2025 2:07 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 446691

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2315849467.

The sampling event is expected to take place:

When: 04/03/2025 @ 07:30

Where: J-15-21S-27E 0 FNL 0 FEL (32.4780968,-104.1706733)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of US-62 and George Shoup Relief Route (GPS: 32.436401, -104.179001), head N on George Shoup Relief Route for 1.17 mi, then E for 0.65 mi, then N for 0.60 mi, then E for 0.62 mi, then NW for 1.12 mi, then NE for 0.13 mi to arrive at the Chili Verde 23-24 Fed Com 716H release area (GPS: 32.477651, -104.167798).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
Sent: Friday, March 28, 2025 2:10 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 446694

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2315849467.

The sampling event is expected to take place:

When: 04/04/2025 @ 07:30

Where: J-15-21S-27E 0 FNL 0 FEL (32.4780968,-104.1706733)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of US-62 and George Shoup Relief Route (GPS: 32.436401, -104.179001), head N on George Shoup Relief Route for 1.17 mi, then E for 0.65 mi, then N for 0.60 mi, then E for 0.62 mi, then NW for 1.12 mi, then NE for 0.13 mi to arrive at the Chili Verde 23-24 Fed Com 716H release area (GPS: 32.477651, -104.167798).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
Sent: Friday, March 28, 2025 2:13 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 446697

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2315849467.

The sampling event is expected to take place:

When: 04/07/2025 @ 07:30

Where: J-15-21S-27E 0 FNL 0 FEL (32.4780968,-104.1706733)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of US-62 and George Shoup Relief Route (GPS: 32.436401, -104.179001), head N on George Shoup Relief Route for 1.17 mi, then E for 0.65 mi, then N for 0.60 mi, then E for 0.62 mi, then NW for 1.12 mi, then NE for 0.13 mi to arrive at the Chili Verde 23-24 Fed Com 716H release area (GPS: 32.477651, -104.167798).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
Sent: Friday, March 28, 2025 2:15 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 446701

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2315849467.

The sampling event is expected to take place:

When: 04/08/2025 @ 07:30

Where: J-15-21S-27E 0 FNL 0 FEL (32.4780968,-104.1706733)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of US-62 and George Shoup Relief Route (GPS: 32.436401, -104.179001), head N on George Shoup Relief Route for 1.17 mi, then E for 0.65 mi, then N for 0.60 mi, then E for 0.62 mi, then NW for 1.12 mi, then NE for 0.13 mi to arrive at the Chili Verde 23-24 Fed Com 716H release area (GPS: 32.477651, -104.167798).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
Sent: Friday, March 28, 2025 2:17 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 446702

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2315849467.

The sampling event is expected to take place:

When: 04/09/2025 @ 07:30

Where: J-15-21S-27E 0 FNL 0 FEL (32.4780968,-104.1706733)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of US-62 and George Shoup Relief Route (GPS: 32.436401, -104.179001), head N on George Shoup Relief Route for 1.17 mi, then E for 0.65 mi, then N for 0.60 mi, then E for 0.62 mi, then NW for 1.12 mi, then NE for 0.13 mi to arrive at the Chili Verde 23-24 Fed Com 716H release area (GPS: 32.477651, -104.167798).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
Sent: Friday, March 28, 2025 2:19 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 446705

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2315849467.

The sampling event is expected to take place:

When: 04/10/2025 @ 07:30

Where: J-15-21S-27E 0 FNL 0 FEL (32.4780968,-104.1706733)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of US-62 and George Shoup Relief Route (GPS: 32.436401, -104.179001), head N on George Shoup Relief Route for 1.17 mi, then E for 0.65 mi, then N for 0.60 mi, then E for 0.62 mi, then NW for 1.12 mi, then NE for 0.13 mi to arrive at the Chili Verde 23-24 Fed Com 716H release area (GPS: 32.477651, -104.167798).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
Sent: Friday, March 28, 2025 2:21 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 446707

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2315849467.

The sampling event is expected to take place:

When: 04/11/2025 @ 07:30

Where: J-15-21S-27E 0 FNL 0 FEL (32.4780968,-104.1706733)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of US-62 and George Shoup Relief Route (GPS: 32.436401, -104.179001), head N on George Shoup Relief Route for 1.17 mi, then E for 0.65 mi, then N for 0.60 mi, then E for 0.62 mi, then NW for 1.12 mi, then NE for 0.13 mi to arrive at the Chili Verde 23-24 Fed Com 716H release area (GPS: 32.477651, -104.167798).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
Sent: Tuesday, April 15, 2025 4:00 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 452453

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2315849467.

The sampling event is expected to take place:

When: 04/21/2024 @ 07:00

Where: J-15-21S-27E 0 FNL 0 FEL (32.4780968,-104.1706733)

Additional Information: Aaron Rios, 432-701-8602

Additional Instructions: From the intersection of US-62 and George Shoup Relief Route (GPS: 32.436401, -104.179001), head N on George Shoup Relief Route for 1.17 mi, then E for 0.65 mi, then N for 0.60 mi, then E for 0.62 mi, then NW for 1.12 mi, then NE for 0.13 mi to arrive at the Chili Verde 23-24 Fed Com 716H release area (GPS: 32.477651, -104.167798).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
Sent: Tuesday, April 15, 2025 4:06 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 452459

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2315849467.

The sampling event is expected to take place:

When: 04/22/2025 @ 07:00

Where: J-15-21S-27E 0 FNL 0 FEL (32.4780968,-104.1706733)

Additional Information: Aaron Rios 432-701-8602

Additional Instructions: From the intersection of US-62 and George Shoup Relief Route (GPS: 32.436401, -104.179001), head N on George Shoup Relief Route for 1.17 mi, then E for 0.65 mi, then N for 0.60 mi, then E for 0.62 mi, then NW for 1.12 mi, then NE for 0.13 mi to arrive at the Chili Verde 23-24 Fed Com 716H release area (GPS: 32.477651, -104.167798).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
Sent: Friday, June 13, 2025 3:44 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 474044

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release (C-141N)*, for incident ID (n#) nAPP2315849467.

The sampling event is expected to take place:

When: 06/18/2025 @ 07:30

Where: J-15-21S-27E 0 FNL 0 FEL (32.4780968,-104.1706733)

Additional Information: Martin Sepulveda, 432-305-7322

Additional Instructions: From the intersection of US-62 and George Shoup Relief Route (GPS: 32.436401, -104.179001), head N on George Shoup Relief Route for 1.17 mi, then E for 0.65 mi, then N for 0.60 mi, then E for 0.62 mi, then NW for 1.12 mi, then NE for 0.13 mi to arrive at the Chili Verde 23-24 Fed Com 716H release area (GPS: 32.477651, -104.167798).

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**
- **If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Appendix G Revegetation Form



2617 W. Marland
Hobbs, NM 88240
Office: (575) 964-2880

REVEGETATION FORM

1. General Information

Site name: Apollo Chile Verde Water Transfer Line			API #: N/A		NMOCD Incident ID#: nAPP2315849467	
U/L J	Section 15	Township 21	Range 27	County Eddy	Latitude 32.4780968	Longitude -104.1706733
Responsible Party: Mewbourne Oil Company						
Contact Name: Connor Walker						
Email: cwalker@mewbourne.com						
Site size: ~1.6				Square feet: ~68,806		

2. Soils

Salvaged from site	<input type="checkbox"/>	Bioremediated	<input type="checkbox"/>	Imported	<input checked="" type="checkbox"/>	Blended	<input type="checkbox"/>	Depth (in)	<input type="checkbox"/>
Texture:	Western portion of Excavation: Loamy sand over loamy fine sand.		Describe soil & subsoil:		Western portion of Excavation: Tonuco-Berino loamy sands, 0 to 5% slopes. Depth to restrictive layer: "6 to 20 inches to petrocalcic", per USDA survey.				
	Eastern portion of Excavation: Sandy loam over clay loam.				Eastern Portion of Excavation: Gypsum land-Reeves complex, 0 to 3% slopes, eroded. Depth to restrictive layer: "more than 80 inches".				
Soil prep methods:	Rip	<input checked="" type="checkbox"/>	Depth (in)	<input type="checkbox"/>	Disc	<input type="checkbox"/>	Depth (in)	<input type="checkbox"/>	Rollerpack
Date completed:	4/2/2025								

3. Bioremediation


Fertilizer	<input type="checkbox"/>	Hay	<input type="checkbox"/>	Other	<input type="checkbox"/>
Type:				Describe:	
Lbs/acre:					

4. Seeding

Custom Seed Mix	<input type="checkbox"/>	Prescribed Mix	<input checked="" type="checkbox"/>	Seed Mix Name:	BLM #3	Date:	5/8/2025
Broadcast	<input checked="" type="checkbox"/>	Drilled	<input type="checkbox"/>	Method:	Broadcast seeder and harrow		
Soil conditions during seed:	Dry	<input checked="" type="checkbox"/>	Damp	<input type="checkbox"/>	Wet	<input type="checkbox"/>	
Observations:	Seed was broadcast using a seeder, followed by harrowing to incorporate seed and improve contact with soil.						

5. Certification

I hereby certify that the information in this form and attachments is true and complete to the best of my knowledge and belief.

Name: Ben J. Arguijo	Title: Project Manager	Date:	7/14/2025
Signature:			

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS

Action 487843

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 487843
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2315849467
Incident Name	NAPP2315849467 APOLLO CHILE VERDE WATER TRANSFER LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	APOLLO CHILE VERDE WATER TRANSFER LINE
Date Release Discovered	05/20/2023
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 0 BBL (Unknown Released Amount) Recovered: 240 BBL Lost: -240 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 487843

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 487843
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (?) reported amounts release resulting in negative volume.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 10/18/2024
--	---

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QUESTIONS, Page 3

Action 487843

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 487843
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 200 and 300 (ft.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	51200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	241
GRO+DRO (EPA SW-846 Method 8015M)	210
BTEX (EPA SW-846 Method 8021B or 8260B)	0.3
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	07/05/2023
On what date will (or did) the final sampling or liner inspection occur	08/15/2024
On what date will (or was) the remediation complete(d)	08/15/2024
What is the estimated surface area (in square feet) that will be reclaimed	68806
What is the estimated volume (in cubic yards) that will be reclaimed	10193
What is the estimated surface area (in square feet) that will be remediated	68806
What is the estimated volume (in cubic yards) that will be remediated	13048
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 487843

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 487843
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 10/18/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 487843

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 487843
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 487843

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 487843
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	474044
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/18/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	68806
What was the total volume (cubic yards) remediated	13192
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	68806
What was the total volume (in cubic yards) reclaimed	13048
Summarize any additional remediation activities not included by answers (above)	Please see attached closure report for complete remediation activities.
<i>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 (in .pdf format) 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.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 07/23/2025

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Action 487843

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 487843
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 487843

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 487843
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation closure approved with the following condition:	8/4/2025
scwells	1) Confirmation sample notifications were not submitted for the following dates: 7/7-7/13/2023 and 7/20-7/28/23. Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and the OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC.	8/4/2025