


Remediation Summary & Variance 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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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 & Variance 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

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

Previously submitted portions of the 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 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 6. 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, "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 6.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the information summarized above, Mewbourne Oil Company requests that the NMOCD Closure Criteria for the Chile Verde release site be revised as follows:

Closure Criteria for Soils Impacted by a Release

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Current 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 SP5 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?	8/15/2024	
On what date will (or was) the remediation complete(d)?	8/15/2024	
What is the total surface area (sq. ft.) 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?	10,193	
What was the total surface area (sq. ft.) that has or will be remediated?	68,806	
What was the total volume (cy) that has or will be remediated?	13,048	
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 has been 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 has been 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	6/7, 6/19, 6/20, 7/7, 7/10, 7/13, 7/17, 7/20, 7/21, 7/25, 7/27, 7/28 & 8/17/23	0 - 11.5	In-Situ & Excavated
Benzene	<0.050	All submitted soil samples	6/7, 6/19, 6/20, 7/7, 7/10, 7/13, 7/17, 7/20, 7/21, 7/25, 7/27, 7/28 & 8/17/23	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 subsequently denied by the NMOCD on January 26, 2024, on the basis that "OCD 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.

Excavation soil sample locations 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.

To date, Etech has transported approximately 13,048 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal.

6.0 VARIANCE 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 type="checkbox"/> Yes	<input checked="" 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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
What was the total surface area (sq. ft.) remediated?	68,806	
What was the total volume (cy) remediated?	13,048	

A variance is requested for 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 square feet. Mewbourne Oil Company believes that a relaxation of sampling frequency is permissible given the size and nature of the release, the depth to groundwater, the lack of variability in surface topography, and the relatively shallow depths of contaminant intrusion.

Based on the size of the affected area (approximately 68,806 square feet), a total of approximately 172 composite soil samples will be collected from the floor of the excavated area under the proposed alternative sampling plan, as opposed to approximately 344 samples under a standard 200-square-foot plan. Figures 5A and 5B provide a side-by-side comparison of the 200-square-foot and 400-square-foot sampling plans. The maps illustrate that, while there are fewer total composite samples in the 400-square-foot plan, there is a nominal difference between the spatial coverage of the plans, and both plans are equally representative of the affected area, with minimal gaps between each sampling section/zone. Since each individual composite sample will incorporate soil from five (5) spots within a 400-square-foot zone, this effectively equates to a total of approximately 860 sample points, which decreases the likelihood that any hotspots will be missed. Furthermore, the composite samples will include wet and/or visibly stained areas, from which additional discrete samples will also be collected, as necessary.

Based on the information summarized above, Mewbourne Oil Company affirms that the proposed 400-square-foot sampling plan provides an equal protection of fresh water, public health, and the environment as the standard 200-square-foot plan, pursuant to Section 19.15.29.14 A.(2) NMAC.

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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a reclamation approval with this submission?	<input type="checkbox"/> Yes	<input checked="" 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 (sq. ft.) reclaimed?	0 (To be completed)	
What was the total volume (cy) reclaimed?	0 (To be completed)	

Upon receipt of all confirmation soil sample results, areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected areas will be compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads, pipeline rights-of-way, and/or lease roads will be revegetated with an agency and/or landowner-

approved seed mixture certified to be free of noxious weeds at a time conducive to germination. The seed will be installed at the prescribed rate utilizing either a seed drill or a broadcaster and harrow.

Upon completion of remediation and reclamation activities, a *Remediation Summary & Soil Closure Request* will be prepared detailing field activities and laboratory analytical results from confirmation soil samples.

8.0 LIMITATIONS

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

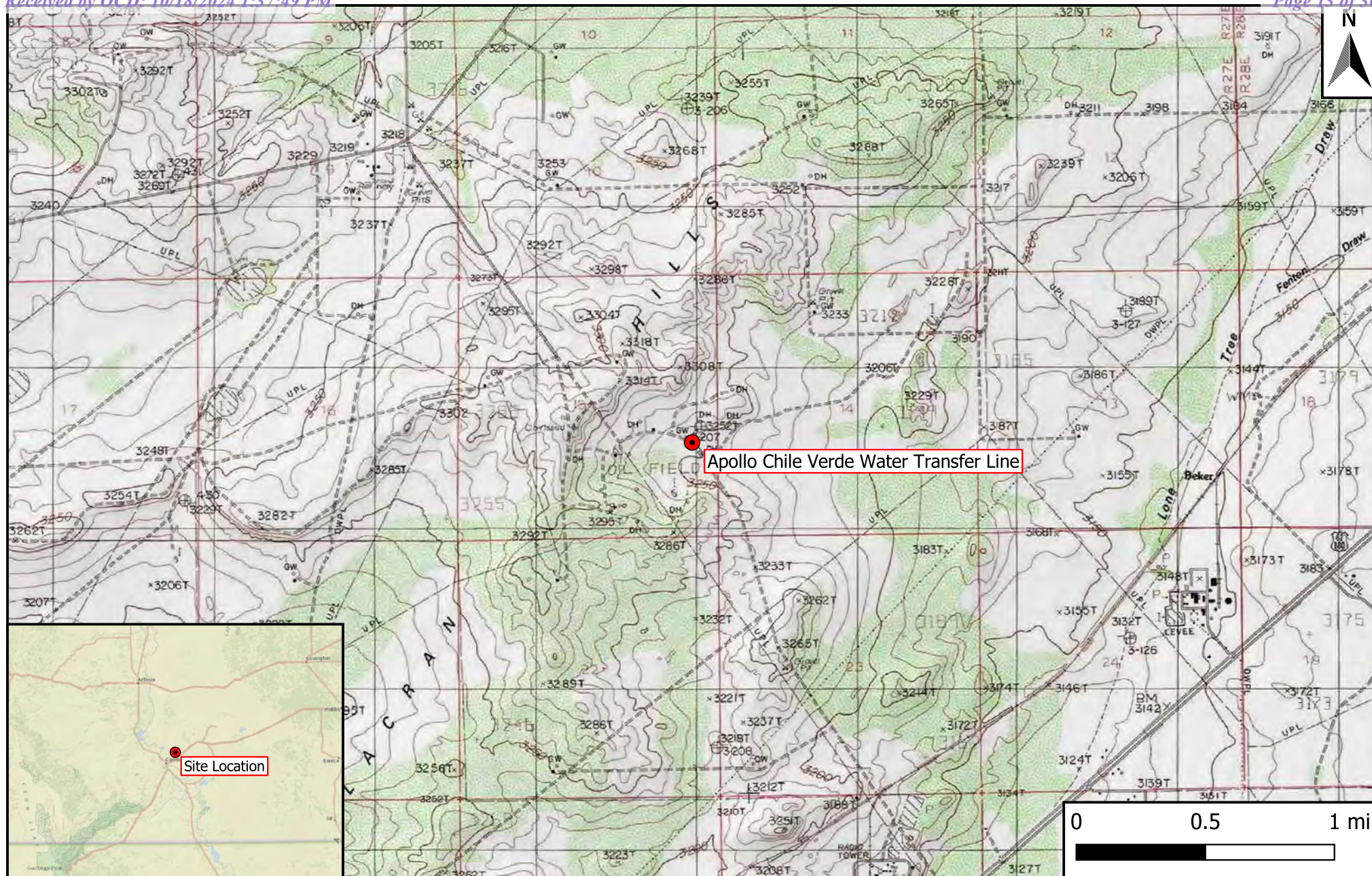
620 E. Greene Street

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

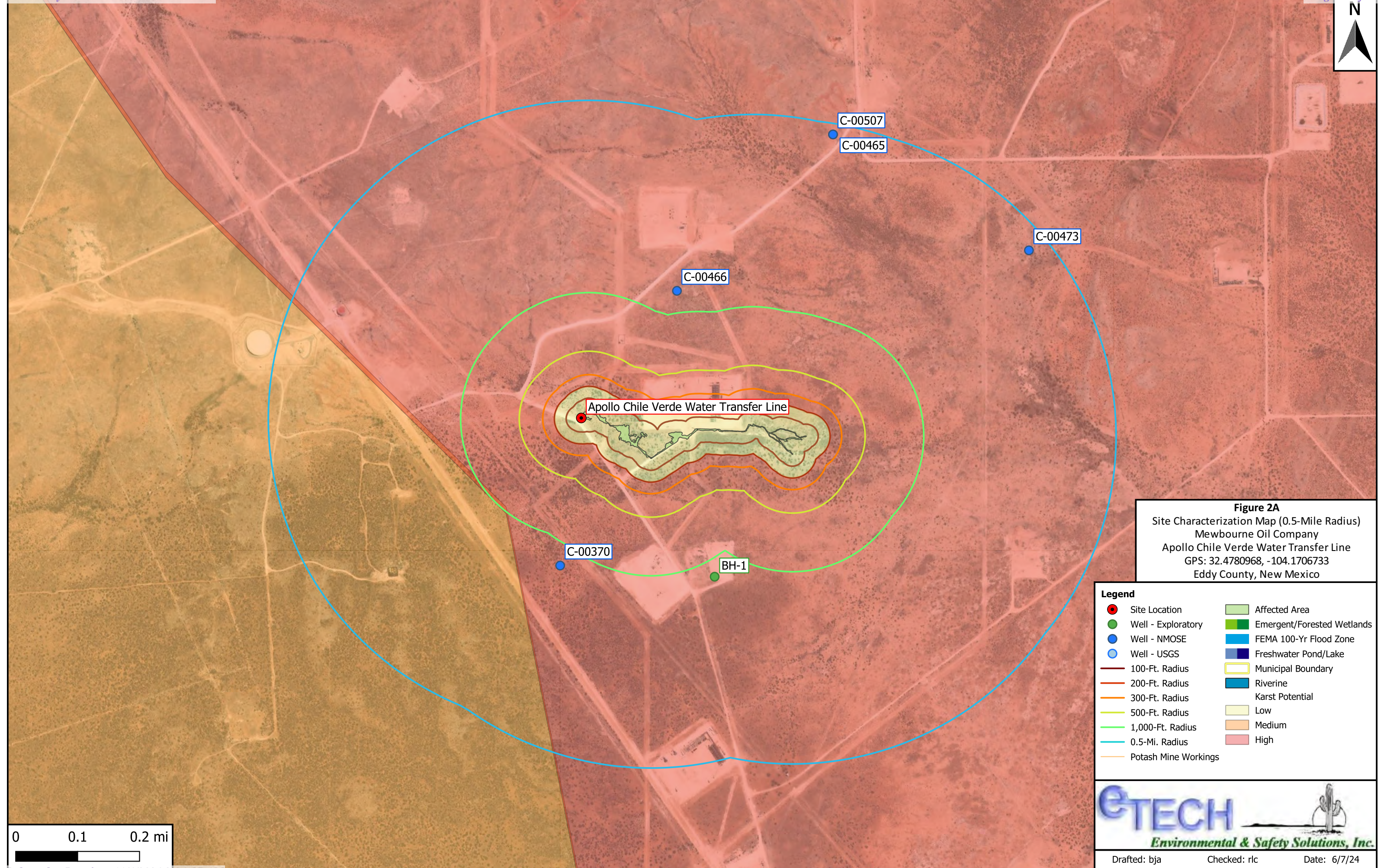


Figure 2A
Site Characterization Map (0.5-Mile Radius)
Mewbourne Oil Company
Apollo Chile Verde Water Transfer Line
GPS: 32.4780968, -104.1706733
Eddy County, New Mexico

- 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 | |



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

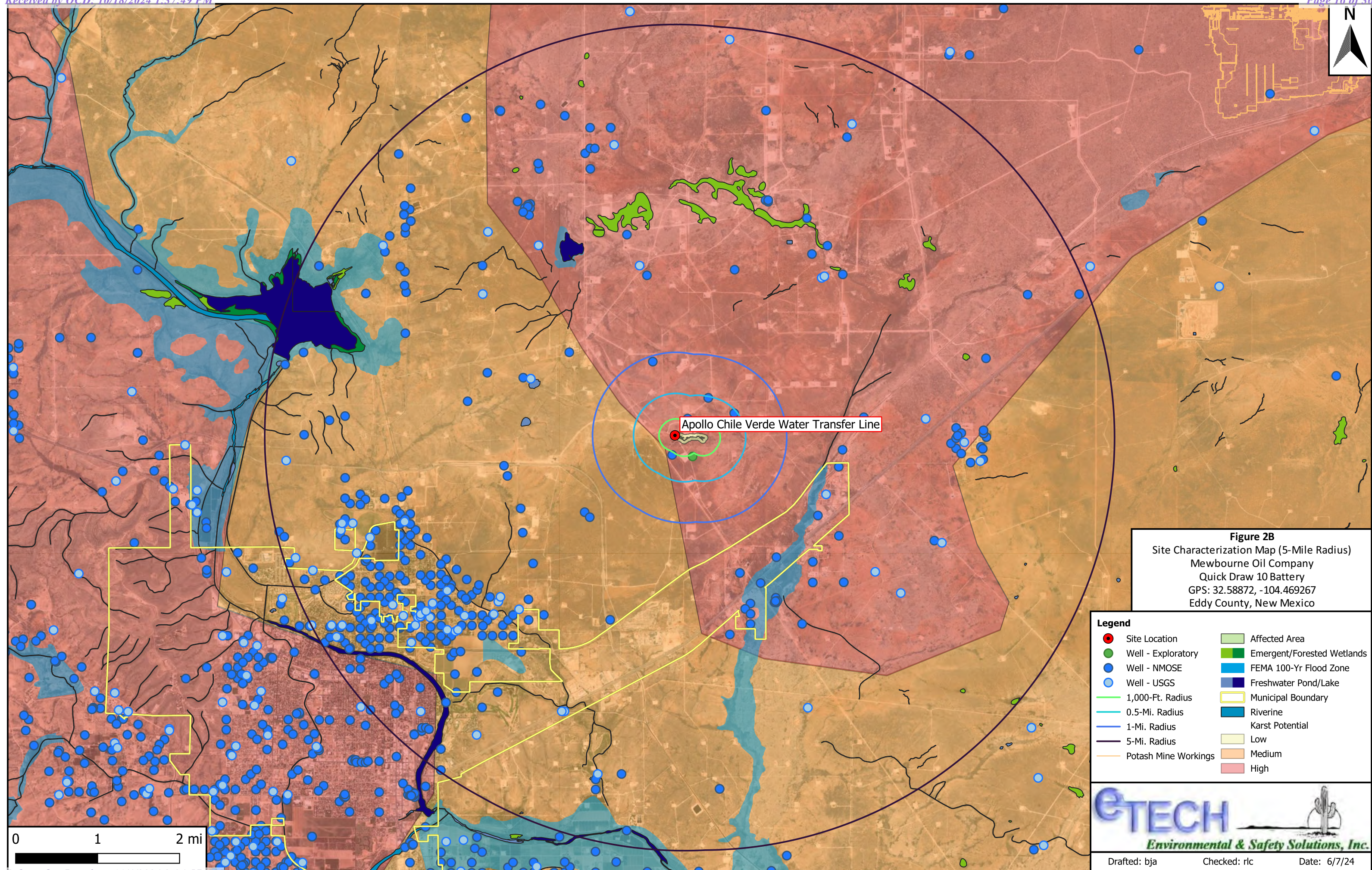


Figure 3

Delineation Sample Location Map

Western & Central Sections of Excavation



Eastern Section of Excavation



- Legend**
- Excavation Extent (68,806 ft²)
 - Delineation Sample Location

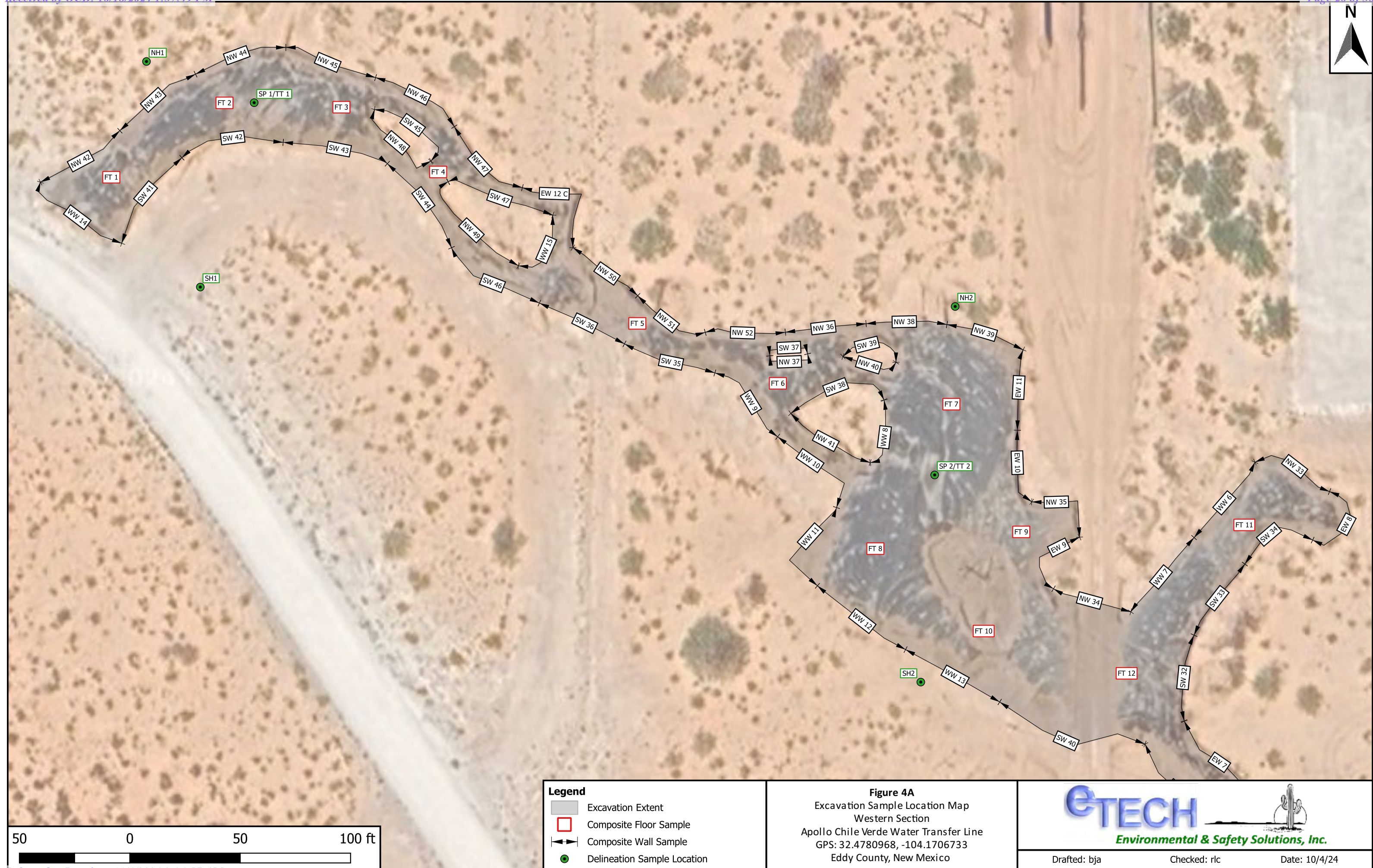
Figure 3
Delineation Sample Location Map
Apollo Chile Verde Water Transfer Line
GPS: 32.4780968, -104.1706733
Eddy County, New Mexico

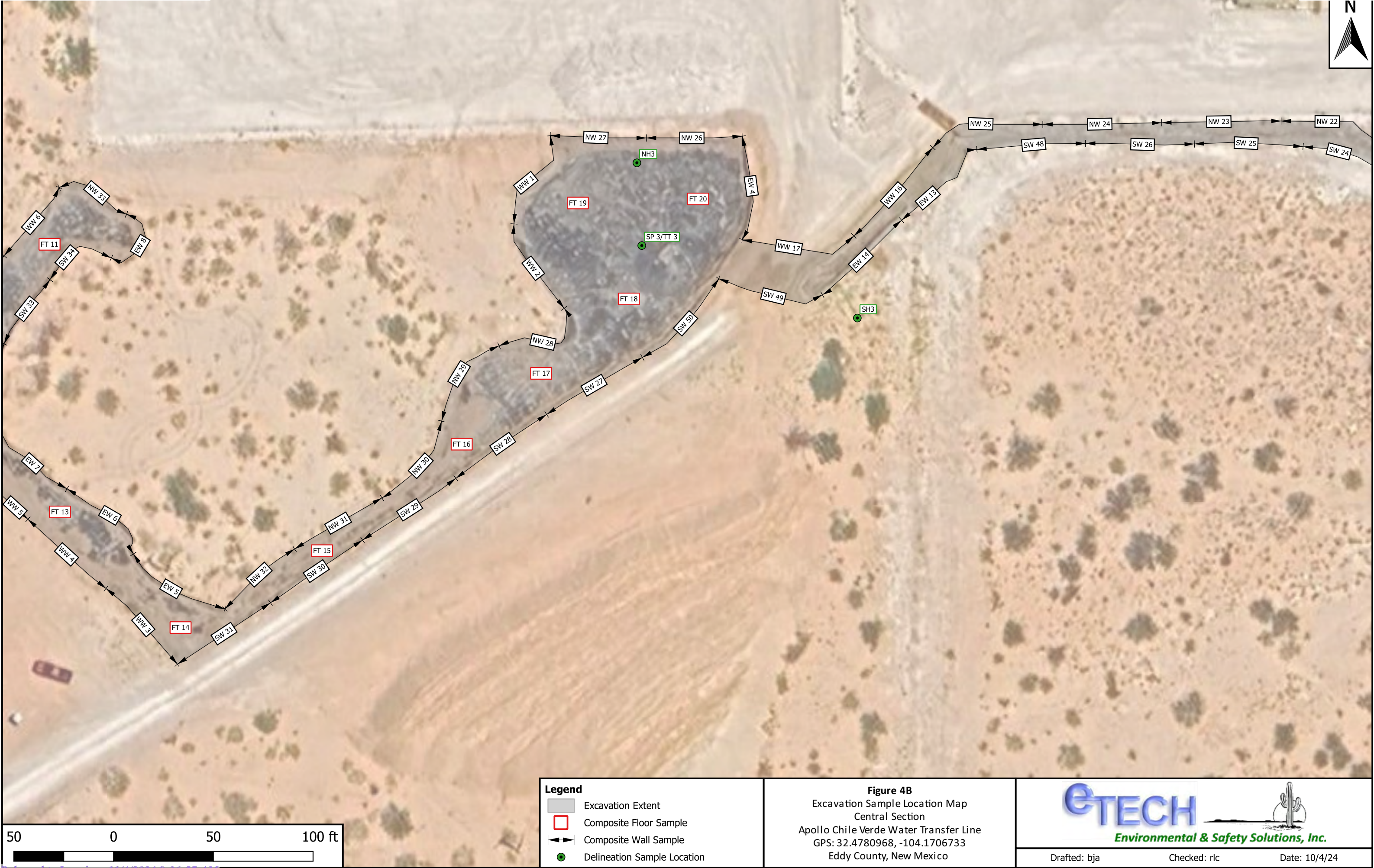


Drafted: bja Checked: rlc Date: 10/4/24

Figures 4A – 4C

Excavation Sample Location Maps







Figures 5A & 5B

Sampling Plan Comparison Maps

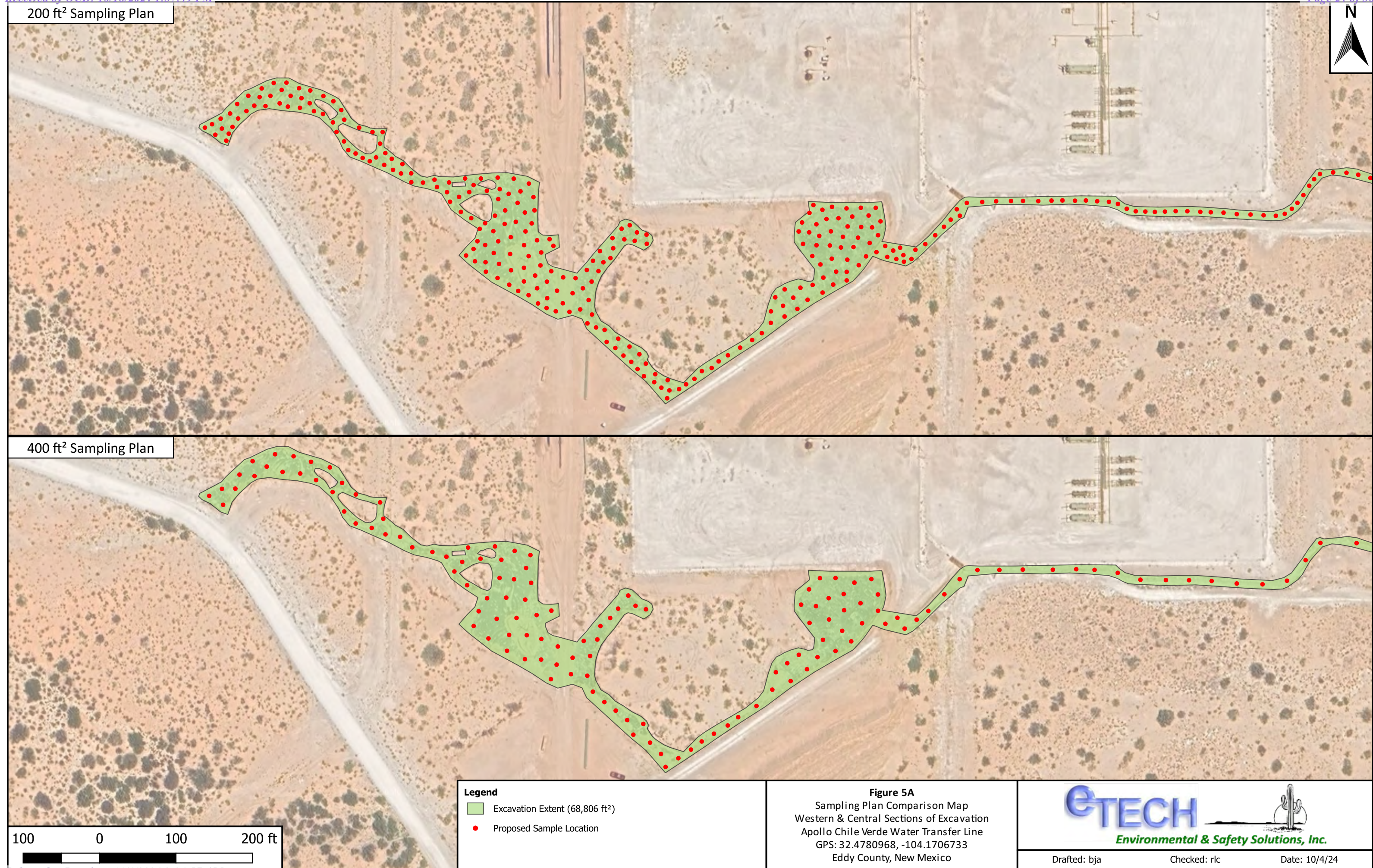




Table 1
Concentrations of BTEX, TPH & Chloride in Soil

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)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
Delineation Samples											
NH 1 @ Surf	6/7/2023	0	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	Excavated	<0.050	<0.300	<10.0	10.1	10.1	<10.0	10.1	51,200
SP 1 @ 10	6/7/2023	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	960
SP 1 @ 11'	6/19/2023	11	In-Situ	-	-	-	-	-	-	-	880
SP 1 @ 11.5'	6/20/2023	11.5	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
SP 2 @ Surf	6/7/2023	0	Excavated	<0.050	<0.300	<10.0	210	210	31.1	241	26,000
SP 2 @ 8	6/7/2023	8	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	In-Situ	-	-	-	-	-	-	-	992
SP 2 @ 9.5'	6/20/2023	9.5	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SP 3 @ Surf	6/7/2023	0	Excavated	<0.050	<0.300	<10.0	14.5	14.5	<10.0	14.5	27,200
SP 3 @ 8	6/7/2023	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SP 4 @ Surf	6/7/2023	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	22,000
SP 4 @ 4	6/7/2023	4	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	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,000
SP 5 @ 3	6/7/2023	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
TT 1 @ 4	8/1/2023	4	In-Situ	-	-	-	-	-	-	-	9,300
TT 1 @ 6	8/1/2023	6	In-Situ	-	-	-	-	-	-	-	7,460
TT 1 @ 8	8/1/2023	8	In-Situ	-	-	-	-	-	-	-	3,520

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

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)	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 @ 10	8/1/2023	10	In-Situ	-	-	-	-	-	-	-	528
TT 2 @ 4	8/1/2023	4	In-Situ	-	-	-	-	-	-	-	11,700
TT 2 @ 6	8/1/2023	6	In-Situ	-	-	-	-	-	-	-	9,600
TT 2 @ 8	8/1/2023	8	In-Situ	-	-	-	-	-	-	-	1,660
TT 2 @ 10	8/1/2023	10	In-Situ	-	-	-	-	-	-	-	64.0
TT 3 @ 4	8/1/2023	4	In-Situ	-	-	-	-	-	-	-	18,800
TT 3 @ 6	8/1/2023	6	In-Situ	-	-	-	-	-	-	-	3,040
TT 3 @ 8	8/1/2023	8	In-Situ	-	-	-	-	-	-	-	3,600
TT 3 @ 10	8/1/2023	10	In-Situ	-	-	-	-	-	-	-	4,200
TT 3 @ 12	8/1/2023	12	In-Situ	-	-	-	-	-	-	-	192
TT 4 @ 4	8/1/2023	4	In-Situ	-	-	-	-	-	-	-	80.0
Excavation Samples											
NW 1	7/7/2023	0-4	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NW 3	7/7/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
NW 4	7/7/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW 5	7/7/2023	0-4	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW 7	7/7/2023	0-4	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NW 9	7/7/2023	0-4	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	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW 13	7/7/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW 14	7/7/2023	0-4	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	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	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
NW 19	7/10/2023	0-4	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	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	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
NW 24	7/10/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
NW 25	7/10/2023	0-4	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW 27	7/13/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
NW 28	7/13/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NW 29	7/17/2023	0-4	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	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

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)	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 33	7/17/2023	0-4	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW 36	7/20/2023	0-4	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	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	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
NW 41	7/21/2023	0-4	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	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
NW 45	7/25/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
NW 46	7/27/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW 47	7/27/2023	0-4	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NW 49	7/27/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
NW 50	7/27/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
NW 51	7/27/2023	0-4	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
EW 1	7/7/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EW 2	7/7/2023	0-4	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	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	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	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	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
EW 9	7/20/2023	0-4	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	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	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	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	Excavated	-	-	-	-	-	-	-	128
EW 12 B	8/22/2023	0-4	Excavated	-	-	-	-	-	-	-	1,520
EW 12 C	8/30/2023	0-4	In-Situ	-	-	-	-	-	-	-	128
EW 13	7/28/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
EW 14	7/28/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
SW 1	7/7/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
SW 2	7/7/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW 3	7/7/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
SW 4	7/7/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
SW 5	7/7/2023	0-4	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

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)	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 8	7/7/2023	0-4	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW 10	7/7/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW 11	7/7/2023	0-4	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SW 13	7/7/2023	0-4	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	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
SW 17	7/10/2023	0-4	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
SW 19	7/10/2023	0-4	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	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW 23	7/10/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
SW 24	7/10/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SW 25	7/10/2023	0-4	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
SW 27	7/13/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW 28	7/17/2023	0-4	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	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	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	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
SW 34	7/17/2023	0-4	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW 36	7/20/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW 37	7/20/2023	0-4	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	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SW 41	7/25/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW 42	7/25/2023	0-4	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SW 45	7/27/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SW 46	7/27/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
SW 47	7/27/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
SW 49	7/28/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SW 50	7/28/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW 58	7/27/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
WW 1	7/13/2023	0-4	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.

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)	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)
WW 2	7/13/2023	0-4	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	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	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	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	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
WW 9	7/21/2023	0-4	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
WW 12	7/25/2023	0-4	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW 16	7/27/2023	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
WW 16	7/28/2023	0-4	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FT 1 @ 4	8/17/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	15,400
FT 2 @ 4	8/17/2023	4	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	18,000
FT 4 @ 4	8/17/2023	4	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	15,200
FT 6 @ 4	8/17/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	14,400
FT 7 @ 4	8/17/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	19,600
FT 8 @ 4	8/17/2023	4	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	20,400
FT 11 @ 4	8/17/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	28,400
FT 12 @ 4	8/17/2023	4	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	38,800
FT 15 @ 4	8/17/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	31,600
FT 16 @ 4	8/17/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	44,000
FT 17 @ 4	8/17/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	37,600
FT 18 @ 4	8/17/2023	4	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	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	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

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

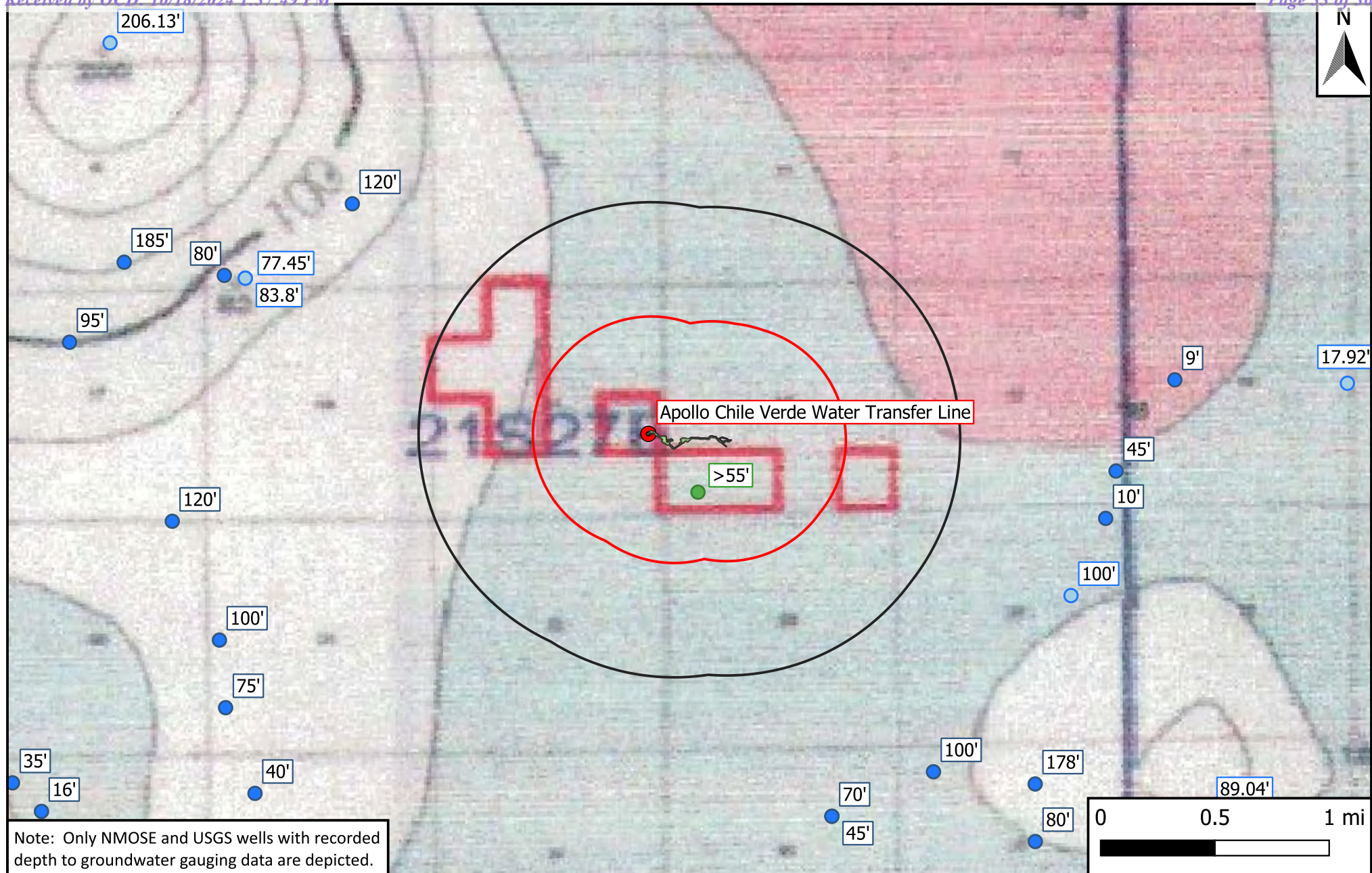
Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

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 6

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: 6/6/24



Soil Boring/Temporary Monitor Well BH-1

Company: Mewbourne Oil Company			Well/Borehole ID: BH-1	Drilling Company: H&R Enterprises, LLC			
Site: Apollo Chile Verde Water Transfer Line			Coordinates (NAD 83): 32.474370,-104.166992	Driller: Jim Hawley			
NMOCD Reference #: nAPP2315849467			Drilling Date: 2/28/2024	Drilling Method: Air Rotary			
Location: Eddy Co., NM			Depth of Boring (ft): 55	Logged By: Jim Hawley			
PLSS: U/L "J", Sec. 15, T21S, R27E			Depth to Groundwater (ft): >55	Drafted By: Ben J. Arguijo			
			Plugging Date: 3/4/2024	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			Sand 30% - Clay 70%	N	N	-	
30				N	N	-	
35				N	N	-	
40			Fine Sand 15% - Clay 85%	N	N	-	
45				N	N	-	
50				N	N	-	
55							
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

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

Events

Date	Type	Description	Comment	Processed By
 get images 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	*****

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

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).

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 8:54 AM

TRANSACTION
SUMMARY



National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

United States

GO

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Groundwater levels for the Nation

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

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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National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

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Groundwater levels for the Nation

Important: [Next Generation Monitoring Location Page](#)**Search Results -- 1 sites found**

Agency code = usgs

site_no list =

- 322917104120102

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload**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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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

United States

GO

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Groundwater levels for the Nation

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

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 322755104081401

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

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: 6/7/2023

Project: Apollo Chile Verde Water Transfer Line

Project Number: 18228 Latitude: 32.4780968 Longitude: -104.1706733

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



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	—	1,448	
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
SP5 @ Sur HS 6-6	—	7784	
SP5 @ 1 HS 5.6	—	5264	
SP5 @ 2 2.6	—	284	
SP5 @ 3 3.4	—	452	
SP5 @ 4 3.0	—	364	
SP5 @ 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	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

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

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:

18228

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

Test Trench = TT #1 @ ##

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

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 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	—	326	
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



Date: _____

Project Number: ~~1732~~ Latitude: ~~92.170433~~ Longitude: ~~104.932535~~

GPS Sample Points, Center of Comp



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	
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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	 <p>2023/07/19 07:50 +32.477849,-104.166044</p>
Photo Direction: Northeast	
Photo Description: View of the excavated area.	

Photo Number: 10	 <p>2023/07/19 07:51 +32.477773,-104.165664</p>
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 11	
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photo Number: 12	
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: West-Northwest	
Photo Description: View of the excavated area.	

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

Photographic Log

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

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

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

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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: 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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*=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 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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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 @ 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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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 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



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 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, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/09/2023	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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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 4 @ SURF (H232949-07)

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	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, SM4500CI-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

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 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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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 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)

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, 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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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 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



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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 @ 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)

BTEx 8021B		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 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 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 @ 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



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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 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, 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 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, 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 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, 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 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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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, 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 102 % 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: 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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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



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 @ 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, 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 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, 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 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



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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 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, 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 99.1 % 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 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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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, 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 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



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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: 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, 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 111 % 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: 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



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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 @ 1 (H232949-34)

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	0.514	
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 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	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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Lane Crenshaw				P.O. #: Mawbourn				<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: XXXXXXXXXX															
City: Lovington		State: NM		Zip: 88260		Attn: Jeff Broom													
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address: 4801 RUS P Bldg		City: Hobbs													
Project #: 1822B		Project Owner: Mawbourn		State: NM		Zip: 88240													
Project Name: Chili Verde 23/24 fed Com 716 H				Phone #:															
Project Location: Rural Carlsbad				Fax #:															
Sampler Name: Dominic Casarez																			

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														
H232949												07/23															
11	NH1 @ SVR	G	1																								
12	NH1 @ I	G	1																								
13	NH2 @ SVR	G	1																								
14	NH2 @ I	G	1																								
15	NH3 @ SVR	G	1																								
16	NH3 @ I	G	1																								
17	NH4 @ SVR	G	1																								
18	NH4 @ I	G	1																								
19	NH5 @ SVR	G	1																								
20	NH5 @ I	G	1																								

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Relinquished By: 	Date: 11-8-23 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. 11/8/23 sfodriquiry Please email results to pm@etechenv.com.
Relinquished By:	Date: Time:	Received By:	

Delivered By: (Circle One) Sampler - UPS - Bus - Other: -12.0) C-O.O: -12.0: #113	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials)
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CARDINAL LABORATORIES

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(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; 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);">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																				6/7/23			
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: [Signature]		Date: 6/8/23		Received By: [Signature]		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) Sampler - UPS - Bus - Other:		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials)		REMARKS: *customer added sample date. Skodrigney 6/8/23 Please email results to pm@etechenv.com.			

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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:
H232949									
31	WHI @ SUR	G 1							
32	WHI @ 1	G 1							
33	EH1 @ SUR	G 1							
34	EH1 @ 1	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: Xcustomer added sample date. 8/23 Please email results to pm@etechenv.com.
Relinquished By: 	Date: Time:	Received By: 	

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-12-000-0-00 -12-00-#113	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY:
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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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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

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**

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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 "Celey D. Keene". The signature is written in a cursive 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
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

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	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

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	
---------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			108 %	49.1-148		3062109	MS	21-Jun-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:
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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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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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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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		

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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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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 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



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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 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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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, 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	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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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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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: 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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Analytical Results For:

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 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)

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	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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 HOBBS NM, 88240
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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, 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	07/10/2023	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)

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, 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:

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 LANCE CRENSHAW
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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 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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Analytical Results For:

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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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 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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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 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, 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	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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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 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, 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	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



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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 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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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 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, 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	07/10/2023	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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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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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)

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) 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	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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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 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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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



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 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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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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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:

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 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, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	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

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: 07/07/2023
 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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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 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 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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**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 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);">BTEX (8021B)</div> </div>													
Address: P.O. Box 301				Company: Mervin																	
City: Lovington		State: NM		Zip: 88260		Attn: Jeff Brown															
Phone #: (575) 396-2378		Fax #: (575) 396-1429		Address: 4801 Bus p 816		City: Hobbs															
Project #: 18228		Project Owner: Mervin		State: NM		Zip: 88240															
Project Name: Chile Verde 23/24 Fed Com 716 H				Phone #:																	
Project Location: Rural Carlisbad Nm				Fax #:																	
Sampler Name: Dominic Casarez																					

FOR LAB USE ONLY		GRAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :		
H233473													
DC11	NW11	✓										7-7	
12	NW12												
13	NW13												
14	NW14												
15	NW15												
16	NW16												
17	EW1												
18	EW2												
19	EW3												
20	SW1												

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Relinquished By:		Date: 7-7	Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Time: 1055	Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
		Date:			REMARKS:	
		Time:				

Delivered By: (Circle One) -90:00:00

Sampler - UPS - Bus - Other: -90:00:00

Sample Condition

Cool ☒ Intact ☒

Yes ☐ No ☐

CHECKED BY:

(Initials)

Please email results to pm@etechenv.com.

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.				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: 1055	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:	-9.02X.O.U. -9.02+113	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	

FORM-006
Revision 1.0

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

July 13, 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, 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: 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

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

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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 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, 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	07/12/2023	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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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, 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	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)

BTEx 8021B		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	<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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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 18 (H233503-12)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	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	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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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 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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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



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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 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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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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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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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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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. 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: Newbourn Project Name: Chile Verde 23/24 Fed Com 710 H Project Location: Rural Carlsbad NM Sampler Name: Dominic Casarez				BILL TO P.O. #: Company: Newbourn Attn: Jeff Broom Address: 4801 Bus pBld City: Hobbs State: NM Zip: Phone #: Fax #:				ANALYSIS REQUEST <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">Chloride</div> <div style="text-align: center;">TPH (8015M)</div> <div style="text-align: center;">BTEX (8021B)</div> </div>																															
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															
H233503																																							
DC		1 SW16		C						✓								✓				7-10																	
2 SW17		C																																					
3 SW18		C																																					
4 SW19		C																																					
5 SW20		C																																					
6 SW21		C																																					
7 SW22		C																																					
8 SW23		C																																					
9 SW24		C																																					
10 SW25		C																																					

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Relinquished By: <div style="text-align: center;">Date: 7-10 Time: 1645</div>		Received By: <div style="text-align: center;">Date: 7-10 Time: 1645</div>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:	
Relinquished By: <div style="text-align: center;">Date: 7-10 Time: 1645</div>		Received By: <div style="text-align: center;">Date: 7-10 Time: 1645</div>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:	

Delivered By: (Circle One) #140
Sampler - UPS - Bus - Other: 2.40

Sample Condition
 Cool ☒ Intact ☒
 Yes ☒ No ☐ Yes ☐ No ☐

CHECKED BY:
 (Initials)
 JO

Please email 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: 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: Newkirk															
City: Lovington State: NM Zip: 88260				Attn: Jeff Broem															
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address: 4811 Bush Blvd															
Project #: 18228 Project Owner: Newkirk				City: Hobbs															
Project Name: Chile Verde 23/24 Fed Cam 716 H				State: NM Zip:															
Project Location: Rural Carlsbad NM				Phone #:															
Sampler Name: Dominick Casver				Fax #:															

Lab I.D.	Sample I.D.	GRAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING		DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)	
				GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER						
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]* Date: 7-10
 Relinquished By: *[Signature]* Date: 7-10
 Delivered By: (Circle One) *[Signature]*
 Sampler - UPS - Bus - Other: *[Signature]*

Phone Result: ☐ Yes ☐ No Add'l Phone #:
 Fax Result: ☐ Yes ☐ No Add'l Fax #:
 REMARKS:

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 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

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: 07/13/2023
 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, 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	07/17/2023	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



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: 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



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: 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, 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	07/17/2023	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



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: 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

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: 07/13/2023
 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, 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	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

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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

**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>Lanc Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <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);">BTEX (8021B)</div> </div>																															
Address: P.O. Box 301				Company: <u>Melbourne</u>																																			
City: Lovington State: NM Zip: 88260				Attn: <u>Jeff Brown</u>																																			
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address: <u>4401 Burg Blvd</u>																																			
Project #: <u>18228</u> Project Owner: <u>Melbourne</u>				City: <u>Hobbs</u>																																			
Project Name: <u>Chile Verde 2314 Rd Can 716 H</u>				State: <u>NM</u> Zip: <u>88240</u>																																			
Project Location: <u>Rural Carlisbad NM</u>				Phone #:																																			
Sampler Name: <u>Dominic Casarez</u>				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													
<u>H233631</u>				C		1						✓						✓		✓		✓		7-13															
1 SW26				C		1																																	
2 SW27				C		1																																	
3 WW1				C		1																																	
4 NW2				C		1																																	
5 EW4				C		1																																	
6 NW26				C		1																																	
7 NW27				C		1						✓						✓																					
8 NW28				C		1						✓						✓																					
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, 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: <u>[Signature]</u>				Date: <u>7-13-23</u>				Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:																							
				Time: <u>1624</u>								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:																							
Relinquished By:				Date:				Received By:				REMARKS:																											
				Time:																																			
Delivered By: (Circle One)								Sample Condition								CHECKED BY:								Please email results to pm@etechenv.com .															
Sampler - UPS - Bus - Other: <u>41c #140</u>								Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No								(Initials) <u>[Signature]</u>																							

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

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: 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, 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 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 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: 07/17/2023
 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



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 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, 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 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, 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	07/19/2023	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



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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 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, 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 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 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: 07/17/2023
 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, SM4500CI-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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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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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)

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) 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	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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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 6 (H233699-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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) 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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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 7 (H233699-15)

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	07/21/2023	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	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

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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, 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	07/19/2023	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



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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: WW 4 (H233699-18)

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	07/21/2023	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	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, 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	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, 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	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".

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>Lane Crenshaw</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <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);">BTEX (8021B)</div> </div>											
Address: P.O. Box 301				Company: <u>Melbourn</u>															
City: Lovington State: NM Zip: 88260				Attn: <u>Jeff Brown</u>															
Phone #: (575) 396-2378 Fax #: (575) 396-1429				Address: <u>461 W. Sp Blvd</u>															
Project #: <u>8228</u> Project Owner: <u>Melbourn</u>				City: <u>Hobbs</u>															
Project Name: <u>Chile Verde 23/24 Fed Com 716 H</u>				State: <u>NM</u> Zip: <u>88240</u>															
Project Location: <u>Rural Carlsbad</u>				Phone #:															
Sampler Name: <u>Dominic Casarez</u>				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 :						
<u>4233699</u>																	
<u>1 SW28</u>		<u>1</u>			<input checked="" type="checkbox"/>							<u>7-17</u>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<u>2 SW29</u>																	
<u>3 SW30</u>																	
<u>4 SW31</u>																	
<u>5 SW32</u>																	
<u>6 SW33</u>																	
<u>7 SW34</u>																	
<u>8 NW29</u>																	
<u>9 NW30</u>																	
<u>10 NW31</u>																	

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Relinquished By: <u>[Signature]</u>	Date: <u>7-17</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>1620</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)		Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		

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



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 Crewshaw				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 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 Cagaret				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												
H233199											7-17													
Di 11	NW32																							
12	NW33																							
13	EW5																							
14	EW6																							
15	EW7																							
16	EW8																							
17	WW3																							
18	WW4																							
19	WW5																							
20	WW6																							

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Relinquished By: 	Date: 7-17 Time: 1620	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 #:

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: 4.0c #140

Sample Condition
 Cool Intact
☒ Yes ☐ No ☐ Yes ☐ No

CHECKED BY: (Initials)

Please email results to pm@etechenv.com.



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)

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) 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

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: NW 35 (H233801-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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) 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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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 36 (H233801-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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) 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	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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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: 07/20/2023
 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)

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) 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	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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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: 07/20/2023
 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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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 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

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: 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, 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	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)

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	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)

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	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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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 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, 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 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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 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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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)

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 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 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: EW 10 (H233801-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	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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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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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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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

† 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

[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)

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	07/28/2023	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 BTX	<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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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



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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

**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>Janet 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													



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)

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	2.29	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 BTX	<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

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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: 07/25/2023
 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



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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 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, 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 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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: 07/25/2023
 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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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: 07/25/2023
 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, SM4500CI-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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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: 07/25/2023
 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:

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 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, 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	07/28/2023	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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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: 07/25/2023
 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, 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	07/28/2023	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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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: 07/25/2023
 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

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: 07/25/2023
 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)

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) 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



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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: 1801 Busp Blvd																	
Project #: 18228		Project Owner: Mewbourn		City: Hobbs																	
Project Name: Chile Verde 23/24 Fed Cam 716 H				State: NM Zip: 88240																	
Project Location: Rural Carlsbad				Phone #:																	
Sampler Name: Dominic Casarez				Fax #:																	

FOR LAB USE ONLY		G/RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
H233883													7	25			
1	WW11																
2	WW12																
3	WW13																
4	WW14																
5	NW43																
6	NW44																
7	NW45																
8	SW40																
9	SW41																
10	SW42																

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Relinquished By: 	Date: 7-25 Time: 1608	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 #:

Delivered By: (Circle One) Sampler - UPS - Bus - Other: 5.8c	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) YO.
--	--	---

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

August 07, 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 07/28/23 10:40.

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:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	APOLLO CHILI VERDE WATER TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE (UL/J SEC 15 T21S - R27E)		

Sample ID: SW 43 (H233978-01)

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	08/04/2023	ND	2.16	108	2.00	1.35	
Toluene*	<0.050	0.050	08/04/2023	ND	2.10	105	2.00	0.979	
Ethylbenzene*	<0.050	0.050	08/04/2023	ND	1.99	99.7	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/04/2023	ND	5.97	99.6	6.00	1.90	
Total BTX	<0.300	0.300	08/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	64.0	16.0	08/03/2023	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	08/03/2023	ND	194	96.9	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	203	101	200	0.602	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 88.6 % 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:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	APOLLO CHILI VERDE WATER TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE (UL/J SEC 15 T21S - R27E)		

Sample ID: SW 44 (H233978-02)

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	08/04/2023	ND	2.16	108	2.00	1.35	
Toluene*	<0.050	0.050	08/04/2023	ND	2.10	105	2.00	0.979	
Ethylbenzene*	<0.050	0.050	08/04/2023	ND	1.99	99.7	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/04/2023	ND	5.97	99.6	6.00	1.90	
Total BTEx	<0.300	0.300	08/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	176	16.0	08/03/2023	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	08/03/2023	ND	194	96.9	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	203	101	200	0.602	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	APOLLO CHILI VERDE WATER TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE (UL/J SEC 15 T21S - R27E)		

Sample ID: SW 45 (H233978-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2023	ND	2.16	108	2.00	1.35	
Toluene*	<0.050	0.050	08/04/2023	ND	2.10	105	2.00	0.979	
Ethylbenzene*	<0.050	0.050	08/04/2023	ND	1.99	99.7	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/04/2023	ND	5.97	99.6	6.00	1.90	
Total BTX	<0.300	0.300	08/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	208	16.0	08/03/2023	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	08/03/2023	ND	194	96.9	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	203	101	200	0.602	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	APOLLO CHILI VERDE WATER TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE (UL/J SEC 15 T21S - R27E)		

Sample ID: SW 46 (H233978-04)

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	08/04/2023	ND	2.16	108	2.00	1.35		
Toluene*	<0.050	0.050	08/04/2023	ND	2.10	105	2.00	0.979		
Ethylbenzene*	<0.050	0.050	08/04/2023	ND	1.99	99.7	2.00	1.33		
Total Xylenes*	<0.150	0.150	08/04/2023	ND	5.97	99.6	6.00	1.90		
Total BTEx	<0.300	0.300	08/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	336	16.0	08/03/2023	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	08/03/2023	ND	194	96.9	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	203	101	200	0.602	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 93.6 % 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:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	APOLLO CHILI VERDE WATER TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE (UL/J SEC 15 T21S - R27E)		

Sample ID: SW 47 (H233978-05)

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	08/04/2023	ND	2.16	108	2.00	1.35		
Toluene*	<0.050	0.050	08/04/2023	ND	2.10	105	2.00	0.979		
Ethylbenzene*	<0.050	0.050	08/04/2023	ND	1.99	99.7	2.00	1.33		
Total Xylenes*	<0.150	0.150	08/04/2023	ND	5.97	99.6	6.00	1.90		
Total BTEx	<0.300	0.300	08/04/2023	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	368	16.0	08/03/2023	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	08/03/2023	ND	194	96.9	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	203	101	200	0.602	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	APOLLO CHILI VERDE WATER TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE (UL/J SEC 15 T21S - R27E)		

Sample ID: SW 58 (H233978-06)

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	08/04/2023	ND	2.16	108	2.00	1.35		
Toluene*	<0.050	0.050	08/04/2023	ND	2.10	105	2.00	0.979		
Ethylbenzene*	<0.050	0.050	08/04/2023	ND	1.99	99.7	2.00	1.33		
Total Xylenes*	<0.150	0.150	08/04/2023	ND	5.97	99.6	6.00	1.90		
Total BTEx	<0.300	0.300	08/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	08/03/2023	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	08/03/2023	ND	194	96.9	200	3.10	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	203	101	200	0.602	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	APOLLO CHILI VERDE WATER TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE (UL/J SEC 15 T21S - R27E)		

Sample ID: WW 16 (H233978-07)

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	08/04/2023	ND	2.00	99.9	2.00	0.342		
Toluene*	<0.050	0.050	08/04/2023	ND	1.92	95.9	2.00	1.79		
Ethylbenzene*	<0.050	0.050	08/04/2023	ND	1.96	97.9	2.00	0.526		
Total Xylenes*	<0.150	0.150	08/04/2023	ND	5.77	96.2	6.00	0.207		
Total BTEx	<0.300	0.300	08/04/2023	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	368	16.0	08/03/2023	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	08/03/2023	ND	194	97.1	200	1.20	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	224	112	200	0.693	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 98.3 % 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:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	APOLLO CHILI VERDE WATER TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE (UL/J SEC 15 T21S - R27E)		

Sample ID: EW 12 (H233978-08)

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	08/04/2023	ND	2.00	99.9	2.00	0.342		
Toluene*	<0.050	0.050	08/04/2023	ND	1.92	95.9	2.00	1.79		
Ethylbenzene*	<0.050	0.050	08/04/2023	ND	1.96	97.9	2.00	0.526		
Total Xylenes*	<0.150	0.150	08/04/2023	ND	5.77	96.2	6.00	0.207		
Total BTEX	<0.300	0.300	08/04/2023	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	1060	16.0	08/03/2023	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	08/03/2023	ND	194	97.1	200	1.20	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	224	112	200	0.693	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 102 % 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:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	APOLLO CHILI VERDE WATER TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE (UL/J SEC 15 T21S - R27E)		

Sample ID: NW 46 (H233978-09)

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	08/04/2023	ND	2.00	99.9	2.00	0.342		
Toluene*	<0.050	0.050	08/04/2023	ND	1.92	95.9	2.00	1.79		
Ethylbenzene*	<0.050	0.050	08/04/2023	ND	1.96	97.9	2.00	0.526		
Total Xylenes*	<0.150	0.150	08/04/2023	ND	5.77	96.2	6.00	0.207		
Total BTEx	<0.300	0.300	08/04/2023	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	144	16.0	08/03/2023	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	08/03/2023	ND	194	97.1	200	1.20	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	224	112	200	0.693	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	APOLLO CHILI VERDE WATER TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE (UL/J SEC 15 T21S - R27E)		

Sample ID: NW 47 (H233978-10)

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	08/04/2023	ND	2.00	99.9	2.00	0.342		
Toluene*	<0.050	0.050	08/04/2023	ND	1.92	95.9	2.00	1.79		
Ethylbenzene*	<0.050	0.050	08/04/2023	ND	1.96	97.9	2.00	0.526		
Total Xylenes*	<0.150	0.150	08/04/2023	ND	5.77	96.2	6.00	0.207		
Total BTEx	<0.300	0.300	08/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	08/03/2023	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	08/03/2023	ND	194	97.1	200	1.20	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	224	112	200	0.693	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 59.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.9 % 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:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	APOLLO CHILI VERDE WATER TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE (UL/J SEC 15 T21S - R27E)		

Sample ID: NW 48 (H233978-11)

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	08/04/2023	ND	2.00	99.9	2.00	0.342		
Toluene*	<0.050	0.050	08/04/2023	ND	1.92	95.9	2.00	1.79		
Ethylbenzene*	<0.050	0.050	08/04/2023	ND	1.96	97.9	2.00	0.526		
Total Xylenes*	<0.150	0.150	08/04/2023	ND	5.77	96.2	6.00	0.207		
Total BTEx	<0.300	0.300	08/04/2023	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	160	16.0	08/03/2023	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	08/03/2023	ND	194	97.1	200	1.20	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	224	112	200	0.693	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 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:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	APOLLO CHILI VERDE WATER TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE (UL/J SEC 15 T21S - R27E)		

Sample ID: NW 49 (H233978-12)

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	08/04/2023	ND	2.00	99.9	2.00	0.342		
Toluene*	<0.050	0.050	08/04/2023	ND	1.92	95.9	2.00	1.79		
Ethylbenzene*	<0.050	0.050	08/04/2023	ND	1.96	97.9	2.00	0.526		
Total Xylenes*	<0.150	0.150	08/04/2023	ND	5.77	96.2	6.00	0.207		
Total BTEx	<0.300	0.300	08/04/2023	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	08/03/2023	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	08/03/2023	ND	194	97.1	200	1.20	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	224	112	200	0.693	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	APOLLO CHILI VERDE WATER TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE (UL/J SEC 15 T21S - R27E)		

Sample ID: NW 50 (H233978-13)

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	08/04/2023	ND	2.00	99.9	2.00	0.342		
Toluene*	<0.050	0.050	08/04/2023	ND	1.92	95.9	2.00	1.79		
Ethylbenzene*	<0.050	0.050	08/04/2023	ND	1.96	97.9	2.00	0.526		
Total Xylenes*	<0.150	0.150	08/04/2023	ND	5.77	96.2	6.00	0.207		
Total BTEx	<0.300	0.300	08/04/2023	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	320	16.0	08/03/2023	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	08/03/2023	ND	194	97.1	200	1.20	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	224	112	200	0.693	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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:	07/28/2023	Sampling Date:	07/27/2023
Reported:	08/07/2023	Sampling Type:	Soil
Project Name:	APOLLO CHILI VERDE WATER TRANSFER	Sampling Condition:	Cool & Intact
Project Number:	18228	Sample Received By:	Shari Cisneros
Project Location:	MEWBOURNE (UL/J SEC 15 T21S - R27E)		

Sample ID: NW 51 (H233978-14)

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	08/04/2023	ND	2.00	99.9	2.00	0.342		
Toluene*	<0.050	0.050	08/04/2023	ND	1.92	95.9	2.00	1.79		
Ethylbenzene*	<0.050	0.050	08/04/2023	ND	1.96	97.9	2.00	0.526		
Total Xylenes*	<0.150	0.150	08/04/2023	ND	5.77	96.2	6.00	0.207		
Total BTEX	<0.300	0.300	08/04/2023	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	16.0	16.0	08/03/2023	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	08/03/2023	ND	194	97.1	200	1.20	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	224	112	200	0.693	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 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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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

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																															
Project #: 18228		Project Owner: Mewbourne Oil Company		City: Hobbs																															
Project Name: Apollo Chile Verde Water Transfer Line				State: NM Zip: 88240																															
Project Location: UL/ J Sec 15 T21S - R27E				Phone #: 575-396-2378																															
Sampler Name: Dominic Casarez				Fax #: 575-396-1429																															
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		Chloride		TPH		BTEX 8021	
1233978				C 1		1		X												X		X		X		7/27/23				X		X		X	
1233978		SW 43		C 1		1		X												X		X		X		7/27/23				X		X		X	
1233978		SW 44		C 1		1		X												X		X		X		7/27/23				X		X		X	
1233978		SW 45		C 1		1		X												X		X		X		7/27/23				X		X		X	
1233978		SW 46		C 1		1		X												X		X		X		7/27/23				X		X		X	
1233978		SW 47		C 1		1		X												X		X		X		7/27/23				X		X		X	
1233978		SW 58		C 1		1		X												X		X		X		7/27/23				X		X		X	
1233978		WW 16		C 1		1		X												X		X		X		7/27/23				X		X		X	
1233978		EW 12		C 1		1		X												X		X		X		7/27/23				X		X		X	
1233978		NW 46		C 1		1		X												X		X		X		7/27/23				X		X		X	
1233978		NW 47		C 1		1		X												X		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		Shen 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 PM@etechenv.com			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: -0.9c				Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Initials: DC			

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476
FORM-006 R 2.0



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By:		Date:	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:
Tamarah Kendrick		7/28	Shay Cisneros	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:
Relinquished By:		Time:	Received By:	REMARKS: Email results to lance@etechenv.com PM @etechenv.com		
		10:40				
Delivered By: (Circle One)		Date:	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other:		Time:	Cool Intact			
			<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes	K		
			<input type="checkbox"/> No <input type="checkbox"/> No			

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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)

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, 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

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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: 07/28/2023
 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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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



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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



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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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 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)

BTEx 8021B		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	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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*=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: 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

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: 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: 2617 West Marland				Company: McWhorter																			
City: Hobbs State: NM Zip: 88240				Attn: Jeff Broom																			
Phone #: (575) 264-9884 Fax #:				Address: 4801 Busp Blvd																			
Project #: 18228 Project Owner: McWhorter				City: Hobbs																			
Project Name: Chile Verde 23rd Fed Com 716 H				State: NM Zip: 88241																			
Project Location: Aural Carlsbad				Phone #:																			
Sampler Name: Dominic Casarez				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		MATRIX		PRESERV.		SAMPLING															
				GRAB OR (COMP. # CONTAINERS)		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER		ACID/BASE ICE / COOL OTHER		DATE		TIME											
H234007				C		✓		✓		7-28													
DC 1		SW49		✓																			
2		SW50																					
3		NW52																					
4		EW14																					
5		EW13																					
6		WW16																					
7		WW17																					

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Relinquished By:		Date: 7-28		Received By:		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: 16:45		Time:		REMARKS:			
Sampler - UPS - Bus - Other: #140		5:40		Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		CHECKED BY:		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
 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: 08/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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



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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
 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: 08/01/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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, SM4500CI-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



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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



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-around;"> <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		G/RAB 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							
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																	

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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

**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: 2617 West Marland				Company: Melbourn																					
City: Hobbs State: NM Zip: 88240				Attn: Jeff Broom																					
Phone #: (575) 264-9884 Fax #:				Address: 4901 Bus & Blvd																					
Project #: 1822B 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: Dominil Casarez				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		MATRIX		PRESERV.		SAMPLING																	
H2340125		DC 11		TT3@8		G 1		✓		8-1															
		12		TT3@10		1				1															
		13		TT3@12		1				1															
		14		TT4@4		1				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: Dan Litz				Date: 8-1		Received By: Tamara Aldridge				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:															
				Time: 1640						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:															
Relinquished By:				Date:		Received By:				REMARKS:															
				Time:																					
Delivered By: (Circle One)				Date: 5.4c		Sample Condition				CHECKED BY:				Please email copy of COC and results to pm@etechenv.com.											
Sampler - UPS - Bus - Other:						Cool Intact				(Initials)															
						<input type="checkbox"/> Yes <input type="checkbox"/> No				20.															



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	

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

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



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

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

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 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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*=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 4 @ 4 (H234480-04)

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	08/22/2023	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	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

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 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

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 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

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 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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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 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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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 9 @ 4 (H234480-09)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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	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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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 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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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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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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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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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, SM4500CI-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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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 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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*=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 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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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 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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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 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

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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, 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	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

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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

- 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

Page 23 of 24

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO		ANALYSIS REQUEST									
Project Manager: Lani 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: Newborn											
City: Hobbs		State: NM		Zip: 88240											
Phone #: (575) 264-9884		Fax #:		Attn: Jeff Brown											
Project #: 18228		Project Owner: Newborn		Address:											
Project Name: Chile Verde 23124 Fed Corn 710 H		City: Hobbs		State: NM											
Project Location: Rural Carlshad NM				Zip:											
Sampler Name: Dominic Casarez				Phone #:											
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	1	FT 1 @ 4												8-17				
	2	FT 2 @ 4																
	3	FT 3 @ 4																
	4	FT 4 @ 4																
	5	FT 5 @ 4																
	6	FT 6 @ 4																
	7	FT 7 @ 4																
	8	FT 8 @ 4																
	9	FT 9 @ 4																
	10	FT 10 @ 4																

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Relinquished By: <i>Don CH</i>	Date: 8-17-23	Received By: <i>Tamara Eldridge</i>	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:			Please email copy of COC and results to pm@etechenv.com.	
Delivered By: (Circle One)	#140	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	4.8c	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>JO</i>	



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 24 of 24

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: Newbourn															
City: Hobbs State: NM Zip: 88240				Attn: Jeff Broom															
Phone #: (575) 264-9884 Fax #:				Address:															
Project #: 18228 Project Owner: Newbourn				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: 8-17-23 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)

BTEx 8021B		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) 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

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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

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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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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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Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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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



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Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
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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	

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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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Celey D. Keene, Lab Director/Quality Manager




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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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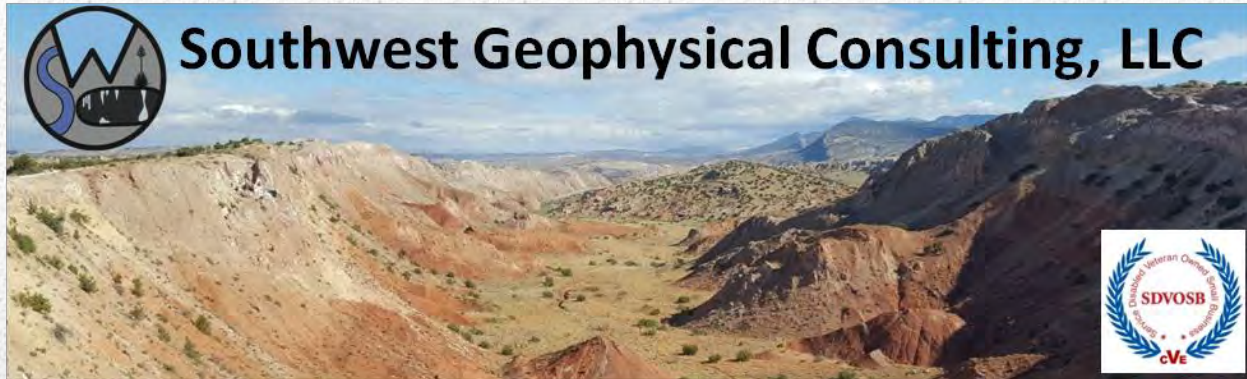
Relinquished By:  Date: <u>8-30</u> Time: <u>15:54</u>		Received By: <u>D. Deinger</u> Date: _____ Time: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: _____ Time: _____		REMARKS: _____ _____ _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Observed Temp. °C <u>2.3°C</u> Corrected Temp. °C <u>#140</u>		Sample Condition: <u>Cool</u> <u>Intact</u> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: <u>[Signature]</u> (Initials)	
				Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> <u>Rush</u> <input type="checkbox"/> 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 Thermometer ID #140 Correction Factor 0°C Corrected Temp. °C	

~~FORM-000 R 3.4 07/11/23~~

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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**).

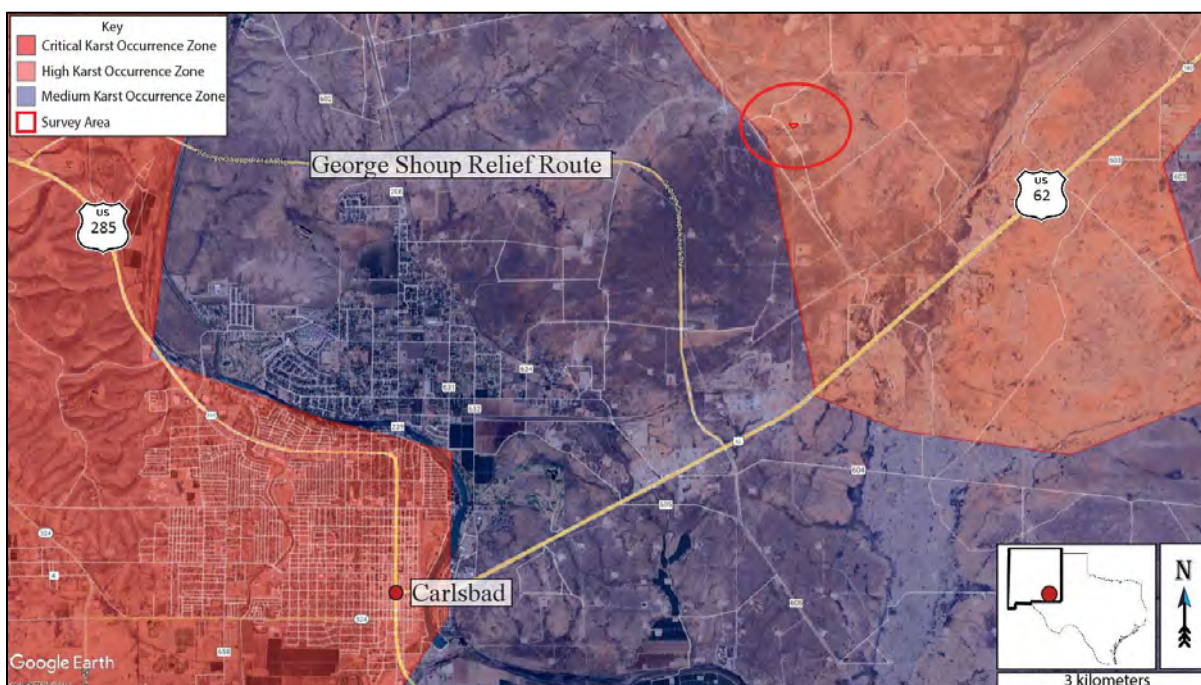


Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: April 15, 2023. Image datum: WGS-84.

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**).

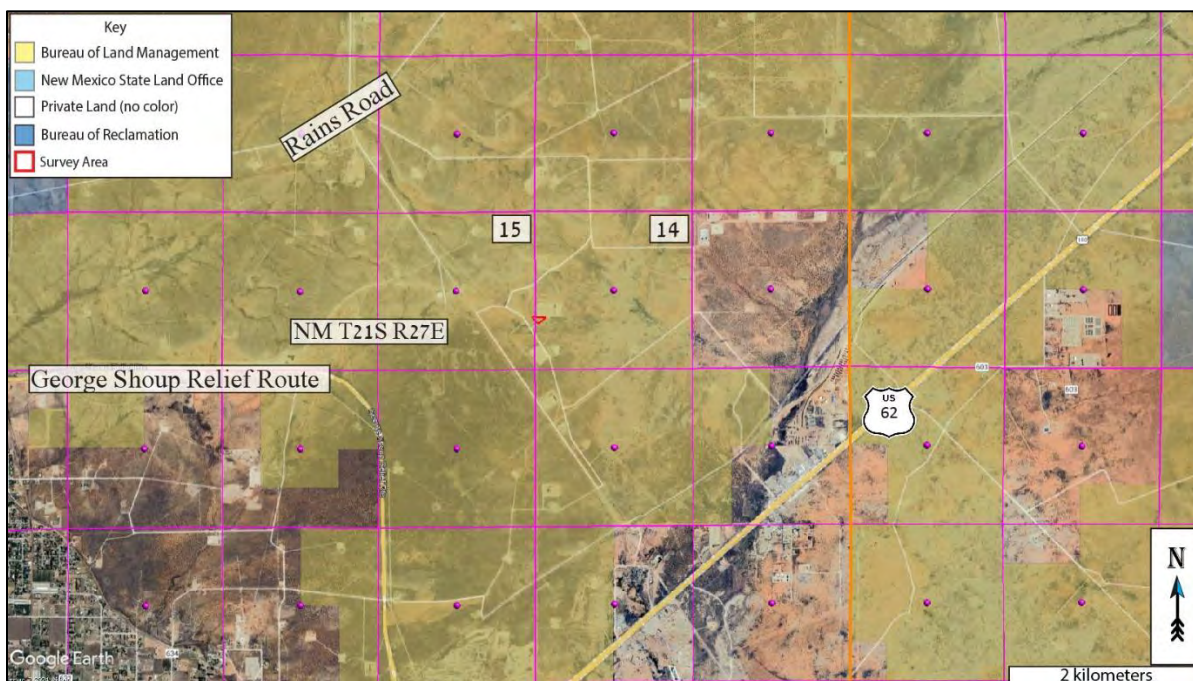


Figure 2: Land ownership^[9] and PLSS^[5] overview. Background image credit: Google Earth. Image date: April 15, 2023. Image datum: WGS-84.

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].

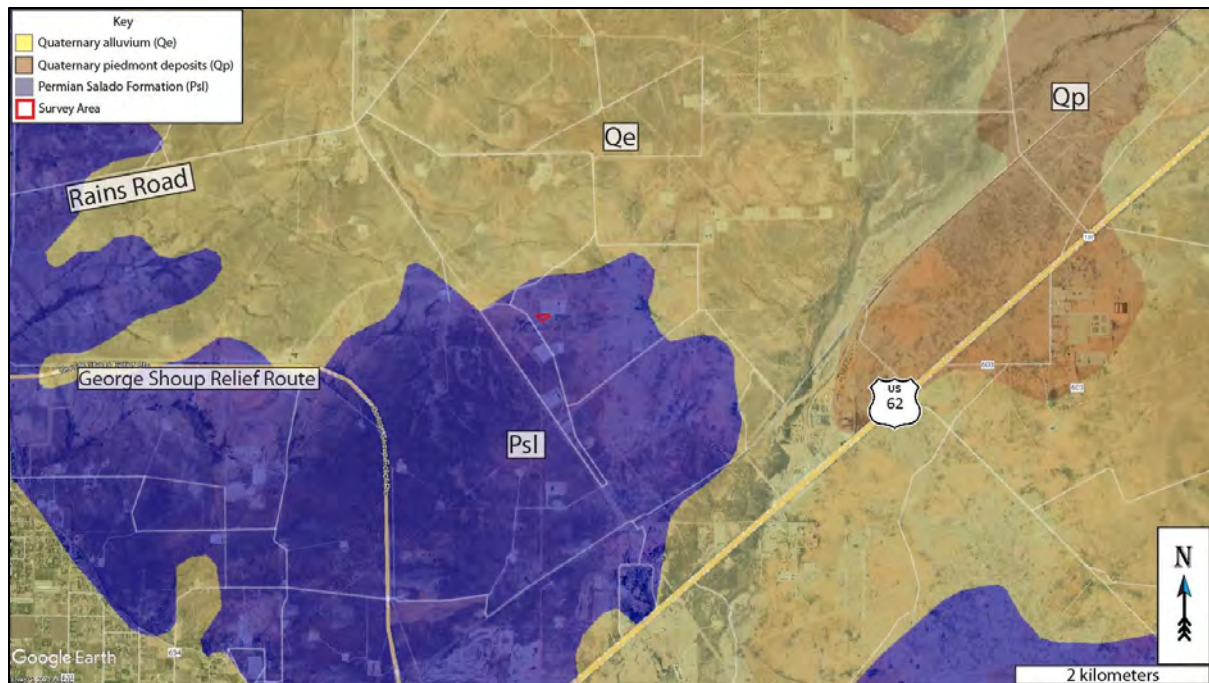


Figure 3: Geology overview. Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format^[13]. Background image credit: Google Earth. Image date: April 15, 2023. Image datum: WGS-84.

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**).

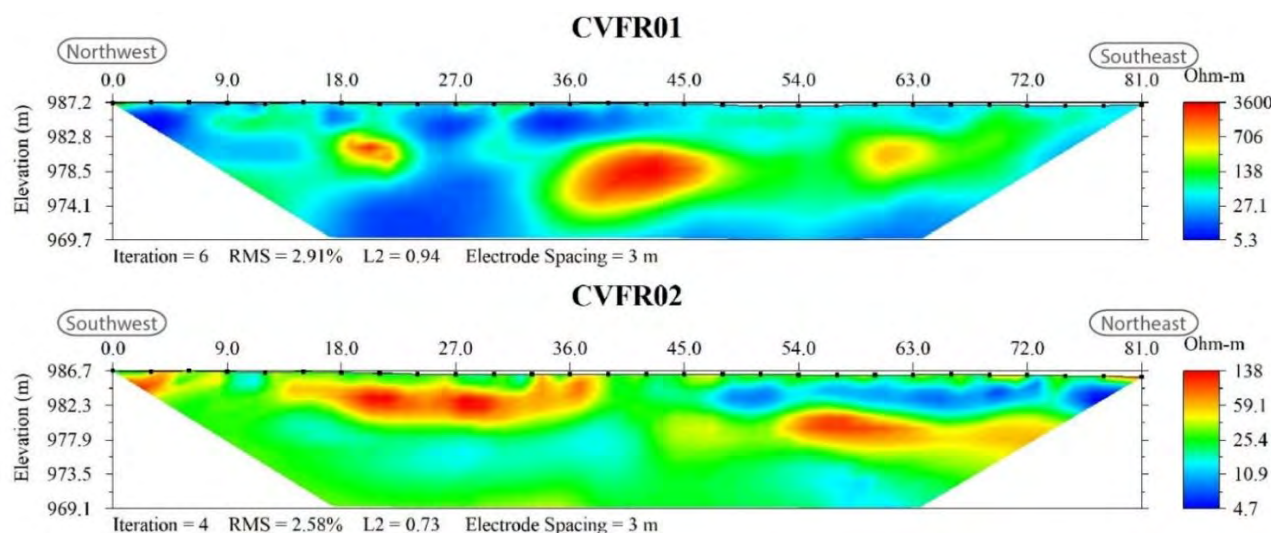


Figure 6: 2D inverted resistivity section. Reds and oranges indicate higher resistivity values. Yellows and greens are medium resistivity values. Blues are low resistivity values. Please note that the color scale is relative, and that even the highest values in these sections are lower than what is typically 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.

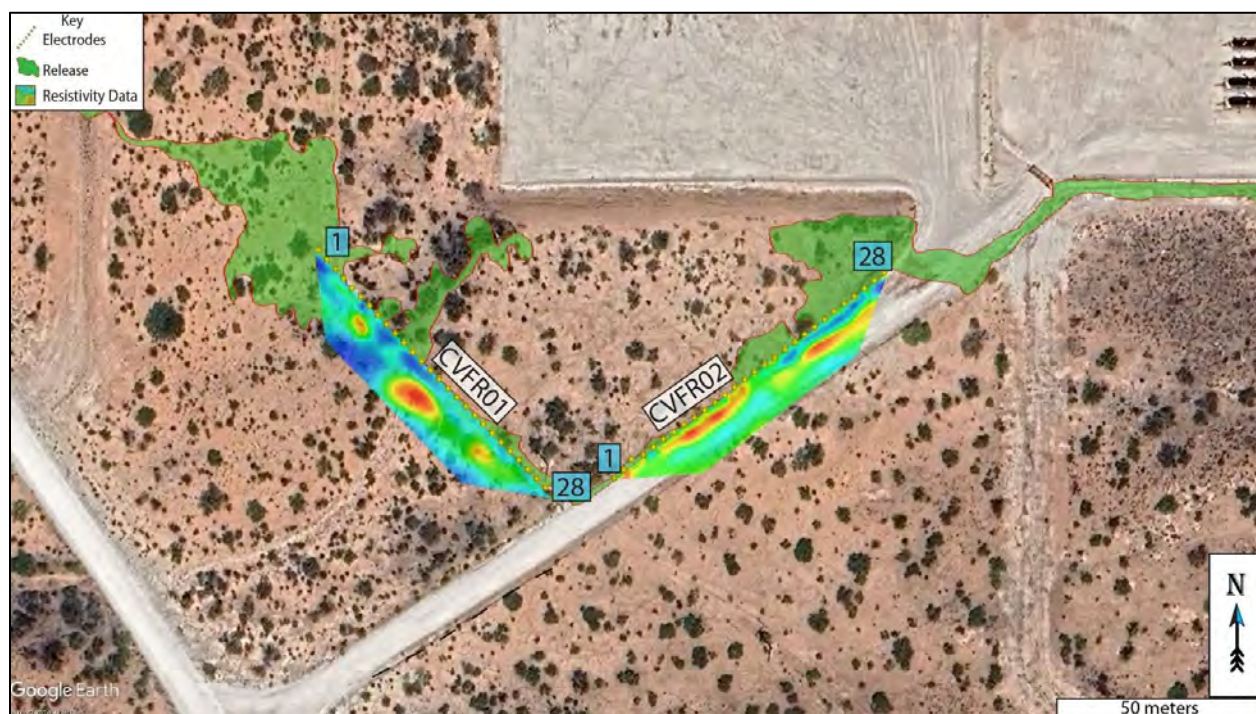


Figure 7: Data overlay. Colored trapezoids are 2D inverted resistivity lines. Background image credit: Google Earth. Image date: April 15, 2023.

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).
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- 4 Rybacki, K. (Bureau of Land Management - Carlsbad Field Office, 2020).
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- 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).
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- 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



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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 393846

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number:
	393846
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2315849467
Incident Name	NAPP2315849467 APOLLO CHILE VERDE WATER TRANSFER LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan 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 393846

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	393846
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 393846

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number:
	393846
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS**Site Characterization**

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.

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

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.

Requesting a remediation plan approval with this submission	Yes
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.	
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

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.

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

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.

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.

District I

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District III

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Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

QUESTIONS, Page 4

Action 393846

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	393846
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<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 393846

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	393846
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

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 393846

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	393846
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 393846

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number: 393846
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved with conditions: Continue excavation of release area using Table 1 <50 feet to groundwater standards as the environmental karst study report was not accepted by the OCD. The variance request is approved to collect confirmation floor samples at a frequency of every 400 square feet. Sidewall samples will still need to be collected every 200 square feet. OCD notes that the total surface area that will be remediated and reclaimed was changed from 98,123 to 68,806 square feet. Explain this change in closure report. Submit remediation closure report to the OCD by 2/3/2025.	11/4/2024