

Incident ID	nAPP2225551350
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>128</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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


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

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

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

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

Printed Name: Albert Ochoa Title: HSE Representative  
Signature:  Date: 12/09/2022  
email: albert.ochoa@goodnightmidstream.com Telephone: (432) 242-6629

**OCD Only**

Received by: Jocelyn Harimon Date: 12/12/2022

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## Closure

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

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

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


I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Albert Ochoa Title: HSE Representative  
Signature:  Date: 12/09/2022  
email: albert.ochoa@goodnightmidstream.com Telephone: (432) 242-6629

### OCD Only

Received by: Jocelyn Harimon Date: 12/12/2022

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

Closure Approved by:  Date: 01/09/2023  
Printed Name: Jennifer Nobui Title: Environmental Specialist A

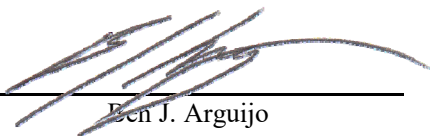
## Remediation Summary & Soil Closure Request

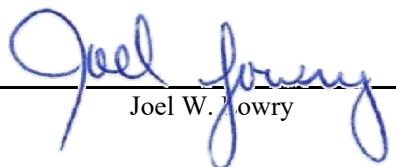
### Goodnight Midstream Permian, LLC Blueberry SWD H-Pump Discharge

Lea County, New Mexico  
Unit Letter "P", Section 24, Township 21 South, Range 33 East  
Latitude 32.459186 North, Longitude 103.519099 West  
NMOCD Reference No. nAPP2225551350

Prepared By:

**Etech Environmental & Safety Solutions, Inc.**  
6309 Indiana Ave., Ste. D  
Lubbock, Texas 79413

  
Ben J. Arguijo

  
Joel W. Nowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette



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**1.0 PROJECT INFORMATION**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Goodnight Midstream Permian, LLC (Goodnight), has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Blueberry SWD H-Pump Discharge. Details of the release are summarized below:

**Location of Release Source**

Latitude: 32.459186 Longitude: -103.5190990

Provided GPS are in WGS84 format.

Site Name: <u>Blueberry SWD H-Pump Discharge</u>	Site Type: <u>Salt Water Disposal (SWD)</u>
Date Release Discovered: <u>9/12/2022</u>	API # (if applicable): <u>N/A</u>

Unit Letter	Section	Township	Range	County
"P"	24	21S	33E	Lea

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

**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) <u>80.5</u>	Volume Recovered (bbls) <u>30</u>
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

**Cause of Release:**

The release was attributed to failure of a stainless steel threaded nipple on an HP pump discharge injection line.

**Initial Response**

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

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

## 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Blueberry SWD H-Pump Discharge 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 September 15, 2021, an investigative soil boring/temporary monitor well was drilled on the Blueberry Salt Water Disposal (SWD) production pad in an effort to determine if shallow groundwater was present in the area (please reference NMOCD Incident ID #nRM2010753767). A groundwater gauging event conducted on September 20, 2021, indicated the depth to groundwater was approximately 128 feet below ground surface (bgs). The location of the investigative soil boring/temporary monitor well is depicted in Figure 2. A drilling log is provided in Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	128'			
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish & Wildlife Services (FWS) shapefiles, topographic maps, NMOSE and USGS databases, and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Blueberry SWD H-Pump Discharge release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
128'	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

\* Measured in milligrams per kilogram (mg/kg)

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

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

## 4.0 INITIAL SITE ASSESSMENT

On September 16, 2022, Etech conducted an initial site assessment. During the site assessment, three (3) hand-augered soil bores (HDS 1, HDS 2, and HDS 3) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data, six (6) delineation soil samples (HDS 1 @ 2', HDS 1 @ 3', HDS 2 @ 1', HDS 2 @ 2', HDS 3 @ 1', and HDS 3 @ 2') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the vertical extent of impacted soil was adequately defined in the areas characterized by hand-augered soil bores HDS 1, HDS 2, and HDS 3. Soil was not affected above the NMOCD Closure Criteria beyond one (1) foot bgs in the areas characterized by sample points HDS 2 and HDS 3 or beyond two (2) feet bgs in the area characterized by sample point HDS 1. However, additional horizontal delineation and/or excavation was required.

## 5.0 REMEDIATION ACTIVITIES SUMMARY

On September 27, 2022, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site atop a plastic liner, 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 and floors of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floors of the excavated area to be submitted for laboratory analysis.

On September 27, 2022, Etech collected eight (8) confirmation soil samples (NW 1, WW 1 and FL 1 @ 3' through FL 6 @ 3') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from 32.0 mg/kg in soil sample FL 5 @ 3' to 176 mg/kg in soil sample NW 1.

On September 29, 2022, Etech collected 11 confirmation soil samples (FL 7 @ 3' through FL 17 @ 3') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil samples FL 7 @ 3', FL 8 @ 3', and FL 10 @ 3' through FL 17 @ 3' to 48.0 mg/kg in soil sample FL 9 @ 3'.

On September 30, 2022, Etech collected five (5) confirmation soil samples (FL 18 @ 5' through FL 22 @ 5') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample FL 18 @ 5' to 48.0 mg/kg in soil samples FL 19 @ 5' and FL 21 @ 5'.

On October 3, 2022, Etech collected seven (7) confirmation soil samples (EW 1, EW 2, WW 2, and FL 23 @ 5' through FL 26 @ 5') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable

NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX concentrations were also below the laboratory MDL. TPH concentrations ranged from less than the laboratory MDL in soil samples EW 1, WW 2, FL 24 @ 6', and FL 25 @ 6' to 14.0 mg/kg in soil sample EW 2. Chloride concentrations ranged from 32.0 mg/kg in soil sample FL 26 @ 5' to 80.0 mg/kg in soil samples EW 1 and FL 23 @ 5'.

On October 3, 2022, Etech also collected one (1) delineation soil sample (DEF 1) in an effort to further investigate the horizontal extent of impacted soil. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. BTEX and TPH concentrations were also below the applicable laboratory MDL. The chloride concentration was 48.0 mg/kg. Based on these laboratory analytical results, the horizontal extent of impacted soil was adequately defined in the area characterized by sample point DEF 1, and no additional remedial action was required.

On October 4, 2022, Etech collected five (5) confirmation soil samples (WW 6, FL 27 @ 6', FL 28 @ 2', FL 30 @ 6', and FL 31 @ 6') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 32.0 mg/kg in soil samples FL 27 @ 6', FL 28 @ 2', FL 30 @ 6', and FL 31 @ 6' to 48.0 mg/kg in soil sample WW 6.

On October 5, 2022, Etech collected two (2) confirmation soil samples (FL 29 @ 2' and FL 32 @ 5') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations were 32.0 mg/kg in soil sample FL 29 @ 2' and 48.0 mg/kg in soil sample FL 32 @ 5'.

On October 6, 2022, Etech collected 14 confirmation soil samples (NW 2, EW 3, SW 1 through SW 4, WW 4, WW 5, and FL 33 @ 3' through FL 38 @ 3') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil sample NW 2 to 64.0 mg/kg in soil sample WW 5.

On October 7, 2022, Etech collected four (4) confirmation soil samples (NW 4, EW 4, SW 6, and FL 39 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil sample EW 4 to 64.0 mg/kg in soil sample FL 39 @ 4'.

On October 7, 2022, Etech also advanced two (2) hand-augered soil bores (NH 1 and EH 1) along the inferred margins of the release in an effort to further investigate the horizontal extent of impacted soil. In addition, two (2) hand-augered soil bores (N DEF 1 and E DEF) were advanced within the inferred release margins in an effort to determine if impacted soil beneath/adjacent to the semi-permanent outbuildings, the lined SWD containment areas, and associated piping, appurtenances, and/or electrical facilities would require deferral of remediation. Based on field observations and field test data, eight (8) delineation soil samples (NH 1 @ Sur, NH 1 @ 1', EH 1 @ Sur, EH 1 @ 1', N DEF 1 @ Sur, N DEF 1 @ 4', E DEF @ Sur, and E DEF @ 3') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria, NMOCD Reclamation Standards, and laboratory MDL in each of the submitted soil samples. Chloride concentrations ranged from 16.0 mg/kg in soil sample NH 1 @ Sur to 22,800 mg/kg in soil sample E DEF @ Sur, which exceeded the NMOCD Closure Criterion.

Based on these laboratory analytical results, the horizontal and vertical extent of impacted soil was adequately defined in the areas characterized by hand-augered soil bores NH 1, EH 1, N DEF 1, and E DEF. Soil was not affected above the NMOCD Closure Criteria in the area characterized by sample point N DEF 1, and no additional remedial action was required. However, excavation was required in the area characterized by sample point E DEF.

On October 10, 2022, Etech collected five (5) confirmation soil samples (EW 5, EW 6, FL 40 @ Sur, FL 41 @ Sur, and FL 42 @ Sur) from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from less than the laboratory MDL in soil sample EW 6 to 6,320 mg/kg in soil sample FL 42 @ Sur.

On October 10, 2022, Etech also advanced one (1) hand-augered soil bore (WH 1) along the inferred margins of the release in an effort to further investigate the horizontal extent of impacted soil. In addition, one (1) hand-augered soil bore (W DEF 1) was advanced within the release margins in an effort to determine if impacted soil beneath/adjacent to the semi-permanent outbuildings, the lined SWD containment areas, and associated piping, appurtenances, and/or electrical facilities would require deferral of remediation. Based on field observations and field test data, three (3) delineation soil samples (WH 1, W DEF 1 @ Sur, and W DEF 1 @ 2') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample WH 1 to 5,200 mg/kg in soil sample W DEF 1 @ Sur.

Based on these laboratory analytical results, the horizontal and vertical extent of impacted soil was adequately defined in the areas characterized by hand-augered soil bores WH 1 and W DEF 1. Soil was not affected above the NMOCD Closure Criteria in the area characterized by sample point W DEF 1, and no additional remedial action was required.

On October 17, 2022, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample E DEF @ Sur. Etech collected one (1) confirmation soil sample (E DEF @ 6") from the floor of the excavated area. The soil sample was submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated the chloride concentration was 2,120 mg/kg and below the NMOCD Closure Criterion.

On November 18, 2022, Etech collected three (3) confirmation soil samples (Cont. North, Cont. East, and Cont. West) from the sidewalls of the excavation along the lined containment areas. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 544 mg/kg in soil sample Cont. North to 12,100 mg/kg in soil sample Cont. West.

The final dimensions of the excavated area were approximately 150 feet in length, 70 to 120 feet in width, and two (2) to six (6) feet in depth. During the course of remediation activities, Etech transported approximately 1,380 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 1,378 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. 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 E.



## 6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

The release was limited to the production pad of an active SWD facility. Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions and compacted/contoured to meet the needs of the facility. Final reclamation and revegetation will be conducted upon decommissioning and abandonment of the SWD.

## 7.0 SOIL CLOSURE REQUEST

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Goodnight provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Blueberry SWD H-Pump Discharge release site.

## 8.0 LIMITATIONS

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

## **9.0 DISTRIBUTION**

***Goodnight Midstream Permian, LLC***

*5910 N Central Expy*

*Suite 800*

*Dallas, TX 75206*

***New Mexico Energy, Minerals and Natural Resources Department***

*Oil Conservation Division, District 1*

*1220 South St. Francis Drive*

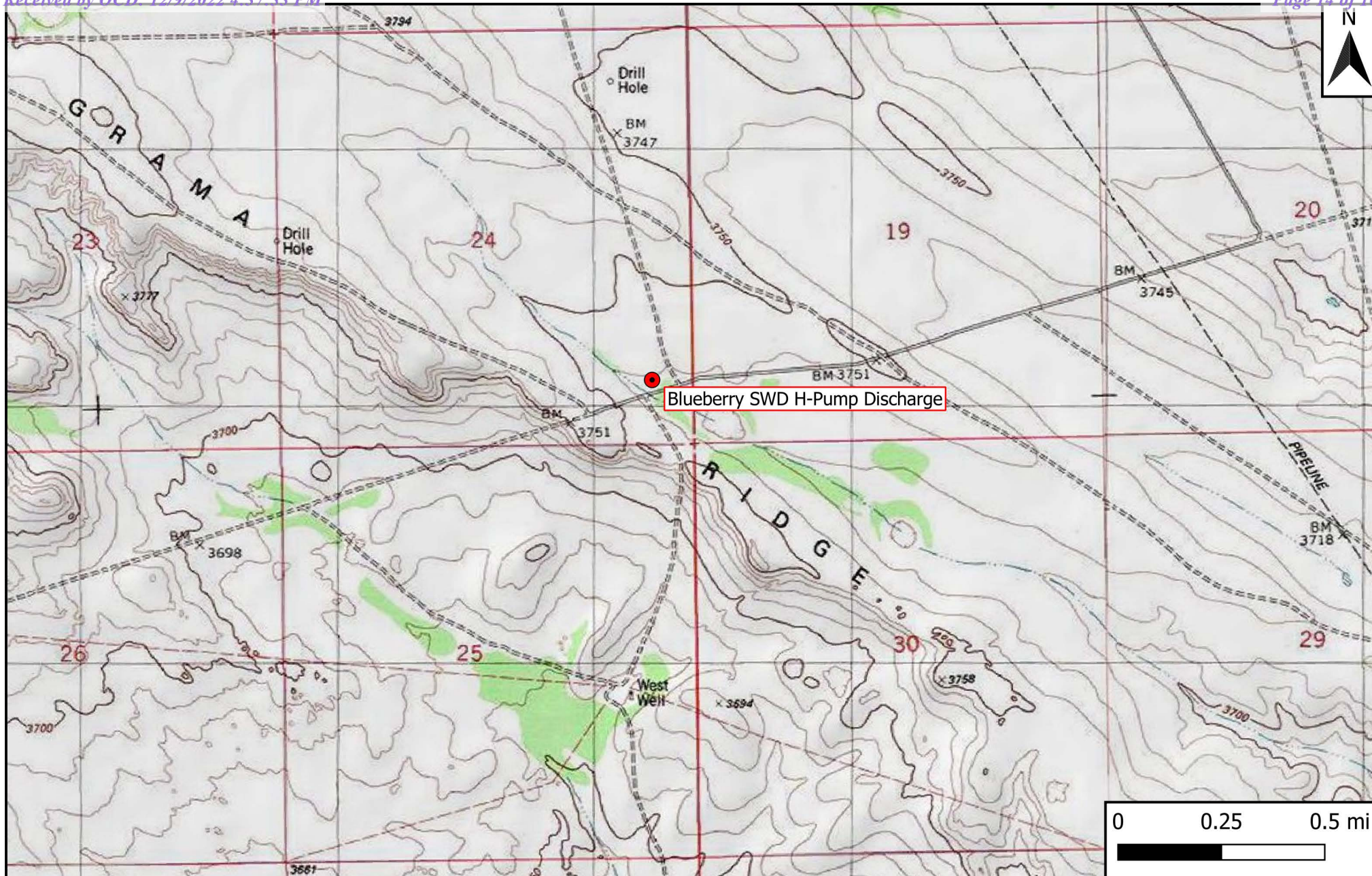
*Santa Fe, NM 87505*

*(Electronic Submission)*



# **Figure 1**

## **Topographic Map**



## Legend

- Site Location

## Figure 1

Topographic Map  
 Goodnight Midstream Permian, LLC  
 Blueberry SWD H-Pump Discharge  
 GPS: 32.459186, -103.519099  
 Lea County



Drafted: bja

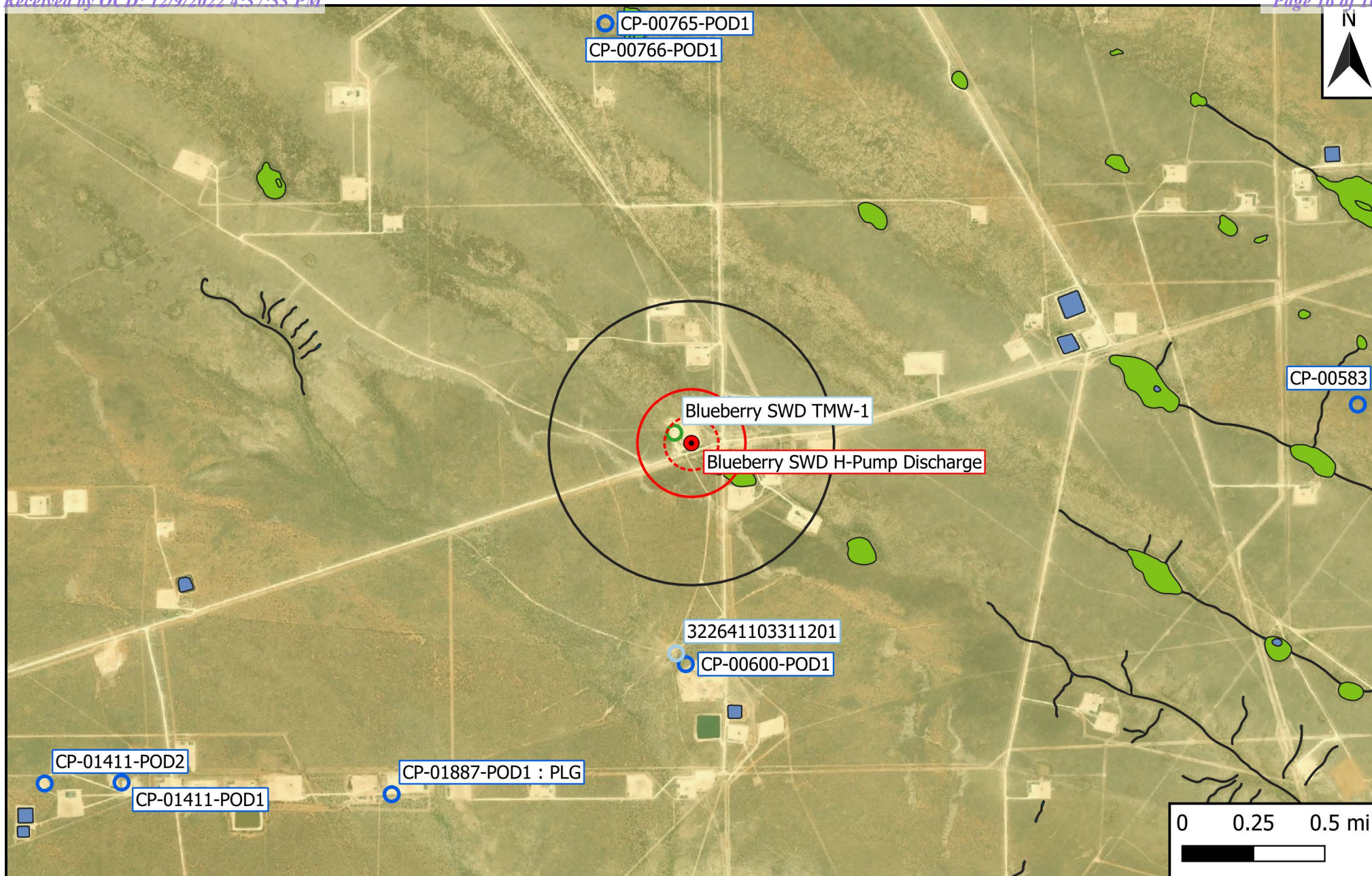
Checked: jwl

Date: 11/15/22

## **Figure 2**

### **Site Characterization Map**





## Legend

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

Figure 2

Site Characterization Map  
 Goodnight Midstream Permian, LLC  
 Blueberry SWD H-Pump Discharge  
 GPS: 32.459186, -103.519099  
 Lea County



Drafted: bja

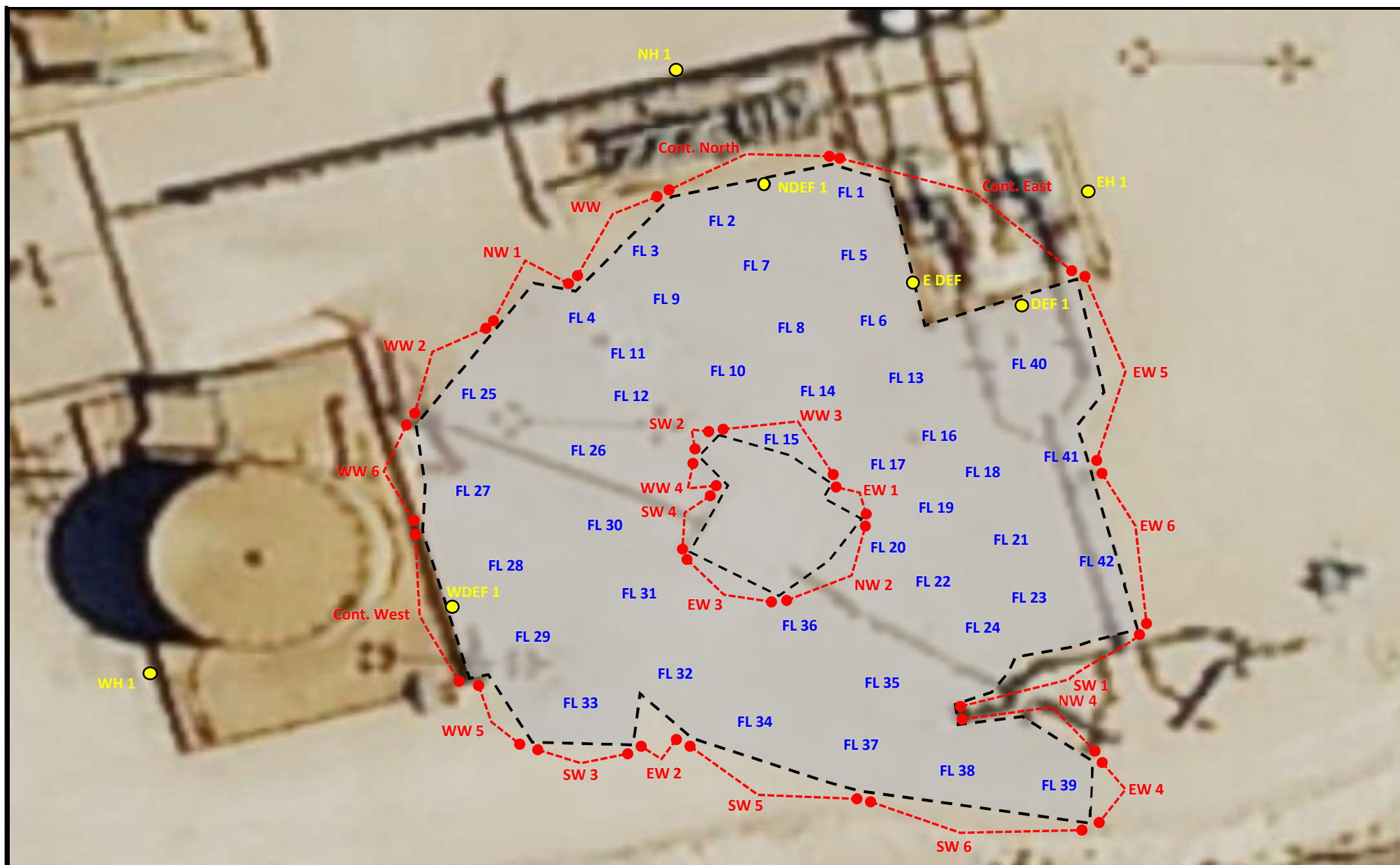
Checked: jwl

Date: 11/15/22

## **Figure 3**

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





## Legend:

- Excavation Extent
- FL 123** Composite Floor Sample
- Composite Wall Sample
- Delineation Sample Point

**Figure 3**

Site & Sample Location Map  
 Goodnight Midstream Permian, LLC  
 Blueberry SWD H-Pump Discharge  
 GPS: 32.459186, -103.519099  
 Lea County



Revised: bja

Checked: jwl

Date: 12/2/22

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

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Goodnight Midstream Permian, LLC Blueberry SWD H-Pump Discharge NMOCD Ref. #: nAPP2225551350											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
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 <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
Delineation Samples											
HDS 1 @ 2'	9/16/2022	2	Excavated	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
HDS 1 @ 3'	9/16/2022	3	Excavated	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
HDS 2 @ 1'	9/16/2022	1	Excavated	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
HDS 2 @ 2'	9/16/2022	2	Excavated	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
HDS 3 @ 1'	9/16/2022	1	Excavated	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	192
HDS 3 @ 2'	9/16/2022	2	Excavated	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH 1 @ Sur	10/7/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NH 1 @ 1'	10/7/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH 1 @ Sur	10/7/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH 1 @ 1'	10/7/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WH 1	10/10/2022	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
DEF 1	10/3/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
N DEF 1 @ Sur	10/7/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,760
N DEF 1 @ 4'	10/7/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
E DEF @ Sur	10/7/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	22,800
E DEF @ 3'	10/7/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
W DEF 1 @ Sur	10/10/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,200
W DEF 1 @ 2'	10/10/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
Excavation Samples											
NW 1	9/27/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
NW 2	10/6/2022	0.5-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NW 4	10/7/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 1	10/3/2022	0.5-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
EW 2	10/3/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	14.0	14.0	<10.0	14.0	48.0
EW 3	10/6/2022	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 4	10/7/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EW 5	10/10/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EW 6	10/10/2022	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW 1	10/6/2022	0.5-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 2	10/6/2022	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW 3	10/6/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW 4	10/6/2022	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW 6	10/7/2022	0.5-3.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 1	9/27/2022	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW 2	10/3/2022	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WW 4	10/6/2022	0.5-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WW 5	10/6/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WW 6	10/4/2022	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 1 @ 3'	9/27/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 2 @ 3'	9/27/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 3 @ 3'	9/27/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 4 @ 3'	9/27/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 5 @ 3'	9/27/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 6 @ 3'	9/27/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 7 @ 3'	9/29/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 8 @ 3'	9/29/2022	3	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.



<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>Goodnight Midstream Permian, LLC</b> <b>Blueberry SWD H-Pump Discharge</b> <b>NMOCD Ref. #: nAPP2225551350</b>											
NMOCD Closure Criteria				10	50	N/A	N/A	1,000	N/A	2,500	20,000
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 <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL 9 @ 3'	9/29/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 10 @ 3'	9/29/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 11 @ 3'	9/29/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 12 @ 3'	9/29/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 13 @ 3'	9/29/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 14 @ 3'	9/29/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 15 @ 3'	9/29/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 16 @ 3'	9/29/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 17 @ 3'	9/29/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 18 @ 5'	9/30/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 19 @ 5'	9/30/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 20 @ 5'	9/30/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 21 @ 5'	9/30/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 22 @ 5'	9/30/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 23 @ 5'	10/3/2022	5	In-Situ	<0.050	<0.300	<10.0	10.6	10.6	<10.0	10.6	80.0
FL 24 @ 6'	10/3/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 25 @ 6'	10/3/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 26 @ 5'	10/3/2022	5	In-Situ	<0.050	<0.300	<10.0	11.6	11.6	<10.0	11.6	32.0
FL 27 @ 6'	10/4/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 28 @ 2'	10/4/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 29 @ 2'	10/5/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 30 @ 6'	10/4/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 31 @ 6'	10/4/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 32 @ 5'	10/5/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 33 @ 3'	10/6/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 34 @ 5'	10/6/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 35 @ 2'	10/6/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 36 @ 5'	10/6/2022	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 37 @ 3'	10/6/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 38 @ 3'	10/6/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 39 @ 4'	10/7/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 40 @ Sur	10/10/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 41 @ Sur	10/10/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,240
FL 42 @ Sur	10/10/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,320
E DEF @ 6"	10/17/2022	0.5	In-Situ	-	-	-	-	-	-	-	2,120
Cont. North	11/18/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
Cont. East	11/18/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,320
Cont. West	11/18/2022	0.5-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,100

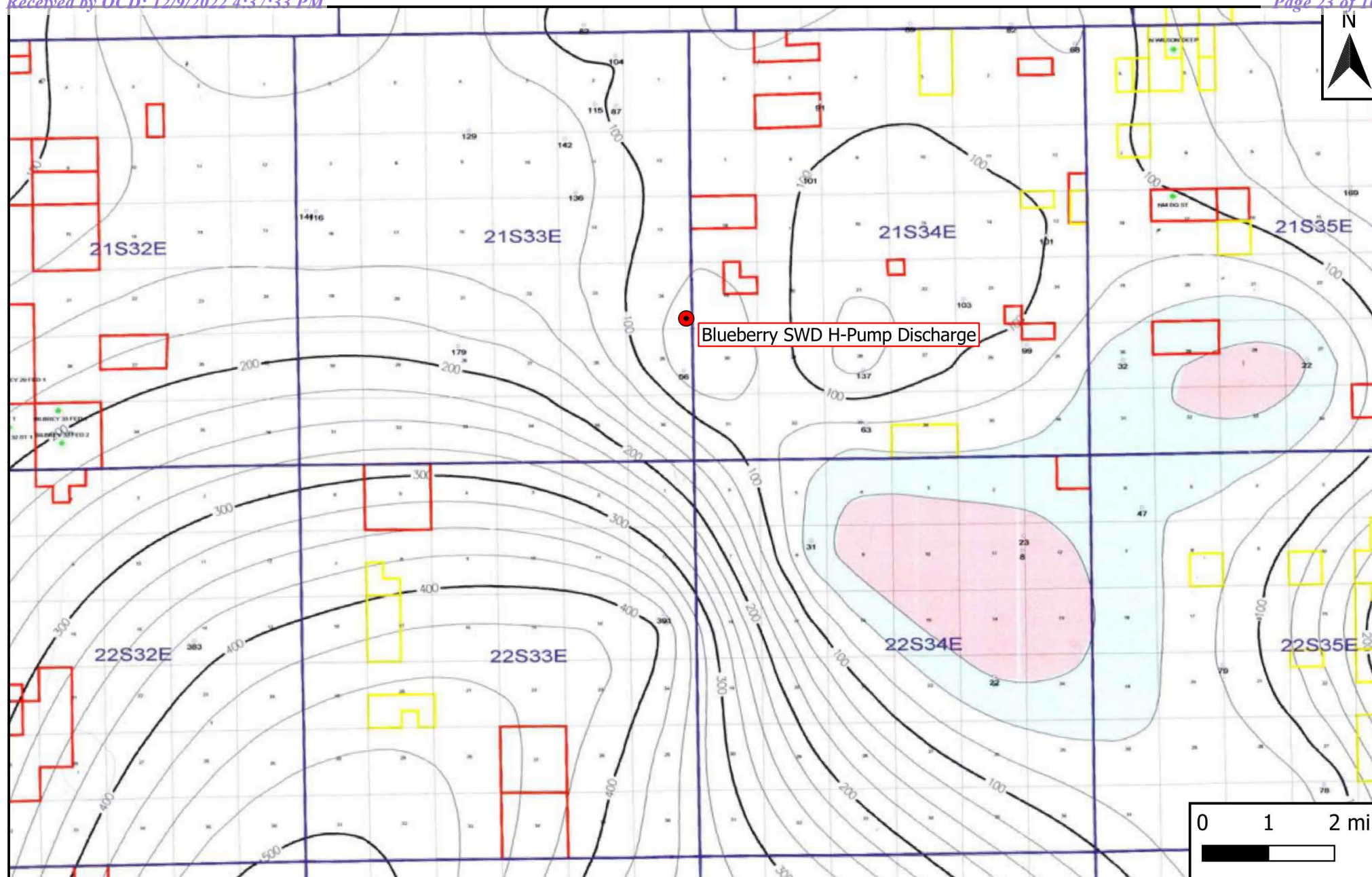
Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

## **Appendix A**

### **Depth to Groundwater Information**



## Legend

- Site Location

## Figure 4

Inferred Depth to Groundwater Trend Map  
 Goodnight Midstream Permian, LLC  
 Blueberry SWD H-Pump Discharge  
 GPS: 32.459186, -103.519099  
 Lea County





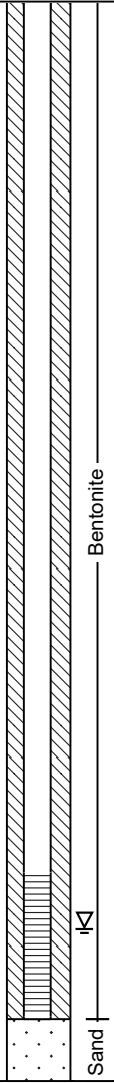


Drafted: bja

Checked: jwl

Date: 11/15/22



## Soil Boring/Temporary Monitor Well TMW-1

<b>Company:</b> Goodnight Midstream Permian, LLC			<b>Well/Borehole ID:</b> TMW-1	<b>Drilling Company:</b> Scarborough Drilling, Inc.			
<b>Site:</b> Blueberry SWD			<b>Coordinates (NAD 83):</b> 32.459725,-103.520119	<b>Driller:</b> L. Scarborough			
<b>NMOCD Reference #:</b> nRM2010753767			<b>Drilling Date:</b> 9/15/2021	<b>Drilling Method:</b> Air Rotary			
<b>Location:</b> Lea Co., NM			<b>Depth of Boring (ft):</b> 150	<b>Logged By:</b> L. Scarborough			
<b>PLSS:</b> U/L "P" (SE/SE), Sec. 24, T21S, R33E			<b>Depth to Groundwater (ft):</b> 128.8	<b>Drafted By:</b> B. Arguijo			
			<b>Plugging Date:</b> 10/25/2021	<b>Draft Date:</b> 10/29/2021			
<b>Completion:</b> N/A			<b>Casing:</b> N/A	<b>Screen:</b> N/A			
<b>Comments:</b> N/A							
Depth (ft)	Groundwater	Lithology	Material Description	Chloride Field Test	Lab	PID	Well Construction
10			Caliche Topsoil	-	-	-	
20			Caliche	-	-	-	
30				-	-	-	
40				-	-	-	
50				-	-	-	
60				-	-	-	
70				-	-	-	
80				-	-	-	
90				-	-	-	
100				-	-	-	
110			-	-	-		
120			-	-	-		
130			Loose sand	-	-	-	
140				-	-	-	
150				-	-	-	
160			Notes: • Lines between material types represent approximate boundaries. Actual transitions may be gradual. • Due to the non-cohesive nature of the soil at lower depths, water was injected beginning at approximately 120 feet below ground surface (bgs) to prevent collapse of the borehole. • Borehole collapsed from approximately 141.5' to 150' bgs.				
170							

**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	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">CP 00600 POD1</a>	CP	LE		2	4	25	21S	33E		639152	3591054*	1246	65		
<a href="#">CP 00765 POD1</a>	CP	LE		3	2	13	21S	33E		638698	3594668*	2417	508		
<a href="#">CP 00766 POD1</a>	CP	LE		3	2	13	21S	33E		638698	3594668*	2417	510		
<a href="#">CP 01887 POD1</a>	CP	LE		2	2	2	35	21S	33E	637492	3590319	2604			

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 639184

Northing (Y): 3592300.34

Radius: 3220

\*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.



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)	
		(quarters are smallest to largest)				X	Y
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>
CP 00600	POD1	2	4	25	21S	33E	639152 3591054*
<b>Driller License:</b> 122		<b>Driller Company:</b> UNKNOWN					
<b>Driller Name:</b>							
<b>Drill Start Date:</b>		<b>Drill Finish Date:</b>		<b>Plug Date:</b>			
<b>Log File Date:</b>		<b>PCW Rcv Date:</b>		<b>Source:</b>		Shallow	
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b>		3 GPM	
<b>Casing Size:</b>	6.63	<b>Depth Well:</b>		65 feet		<b>Depth Water:</b>	

\*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.

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)	
		(quarters are smallest to largest)				X	Y
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>
	CP 00765 POD1	3	2	13	21S	33E	638698 3594668*
<b>Driller License:</b> 122		<b>Driller Company:</b> UNKNOWN					
<b>Driller Name:</b> GRADY ROBERTS							
<b>Drill Start Date:</b>		<b>Drill Finish Date:</b>		11/01/1953		<b>Plug Date:</b>	
<b>Log File Date:</b>		<b>PCW Rev Date:</b>				<b>Source:</b> Shallow	
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>				<b>Estimated Yield:</b> 11 GPM	
<b>Casing Size:</b> 6.63		<b>Depth Well:</b>		508 feet		<b>Depth Water:</b>	

\*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.

POINT OF DIVERSION SUMMARY





# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)	
		(quarters are smallest to largest)				X	Y
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>
CP 00766	POD1	3	2	13	21S	33E	638698 3594668*
<b>Driller License:</b> 122		<b>Driller Company:</b> UNKNOWN					
<b>Driller Name:</b> GRADY ROBERTS							
<b>Drill Start Date:</b> 02/11/1961		<b>Drill Finish Date:</b> 03/13/1961		<b>Plug Date:</b>			
<b>Log File Date:</b>		<b>PCW Rev Date:</b>		<b>Source:</b> Shallow			
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b> 11 GPM			
<b>Casing Size:</b> 7.00		<b>Depth Well:</b> 510 feet		<b>Depth Water:</b>			

\*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.


POINT OF DIVERSION SUMMARY





# New Mexico Office of the State Engineer

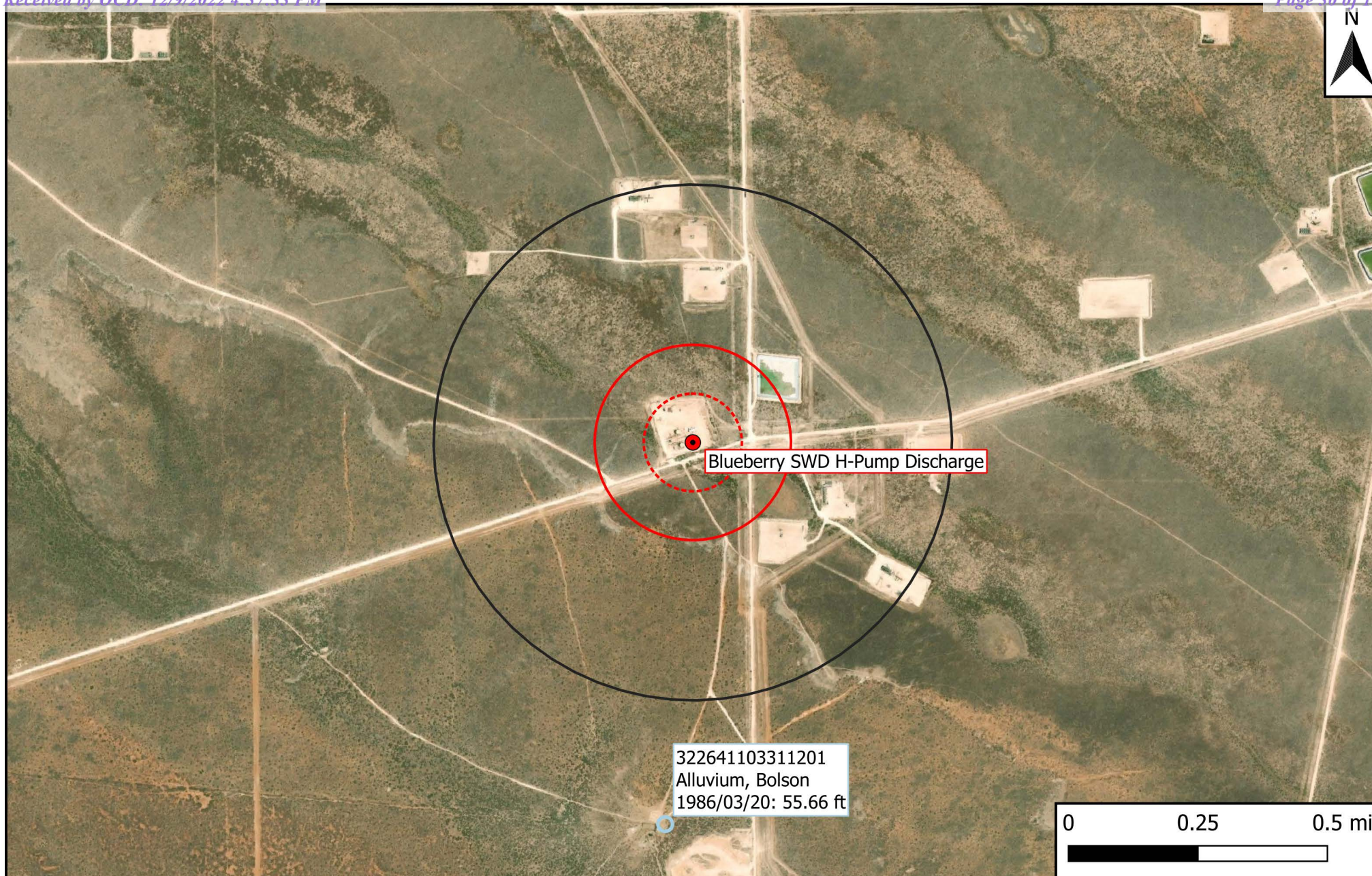
## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	CP 01887 POD1	2	2	2	35	21S	33E	637492	3590319 
<hr/>									
<b>Driller License:</b>	1249	<b>Driller Company:</b>				ATKINS ENGINEERING ASSOC. INC.			
<b>Driller Name:</b>	ATKINS, JACKIE D.UELENER								
<b>Drill Start Date:</b>	10/07/2021	<b>Drill Finish Date:</b>				10/07/2021		<b>Plug Date:</b>	10/14/2021
<b>Log File Date:</b>	11/02/2021	<b>PCW Rcv Date:</b>				<b>Source:</b>			
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>				<b>Estimated Yield:</b>			
<b>Casing Size:</b>		<b>Depth Well:</b>				<b>Depth Water:</b>			
<hr/>									

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.

POINT OF DIVERSION SUMMARY





## Legend

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

## Figure 5

USGS Well Proximity Map  
Goodnight Midstream Permian, LLC  
Blueberry SWD H-Pump Discharge  
GPS: 32.459186, -103.519099  
Lea County





Drafted: bja

Checked: jwl

Date: 11/15/22



 An official website of the United States government  
[Here's how you know](#) 



MENU

- Explore the **NEW** [USGS National Water Dashboard](#) interactive map to access real-time data from over 13,500 stations nationwide.



# 21S.33E.25.42322



**IMPORTANT** [Inventory Page](#) 

Monitoring location 322641103311201 is associated with a WELL in LEA COUNTY, NEW MEXICO. Water data back to 1968 are available online.

☐ 1 year ☐ 10 years

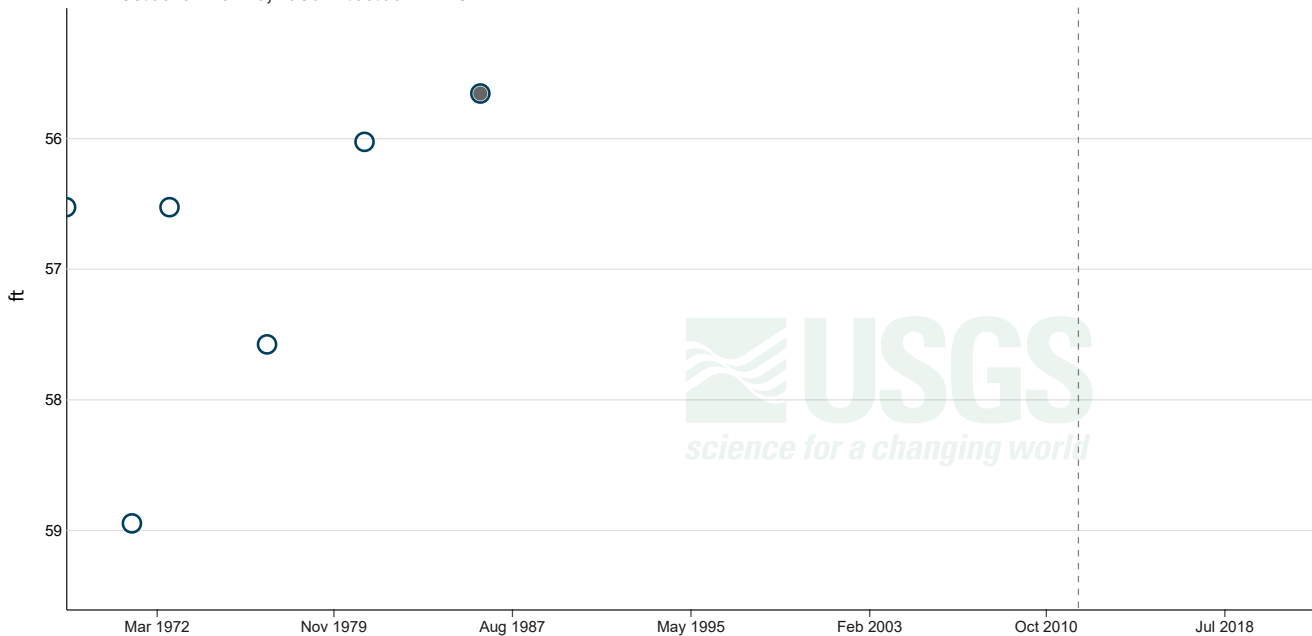
☒ Period of record

Change time span

 Retrieve data

## Depth to water level, ft below land surface

55.66 ft - Mar 20, 1986 12:00:00 AM MST



drag handles to change timeframe



Questions or Comments

☐

 Compare to last year

☐

 Display median

Field visit:

☒ Approved

IMPORTANT

 Data may be provisional - [learn more](#)

### Select Data to Graph

1968-03-28 to 1986-03-20

☒ Depth to water level, ft below land surface

1968-03-28 to 1986-03-20

☐ Groundwater level above NAVD 1988, ft

1968-03-28 to 1986-03-20

☐ Groundwater level above NGVD 1929, feet

Hydrograph data table(s)

—

#### Field visit data

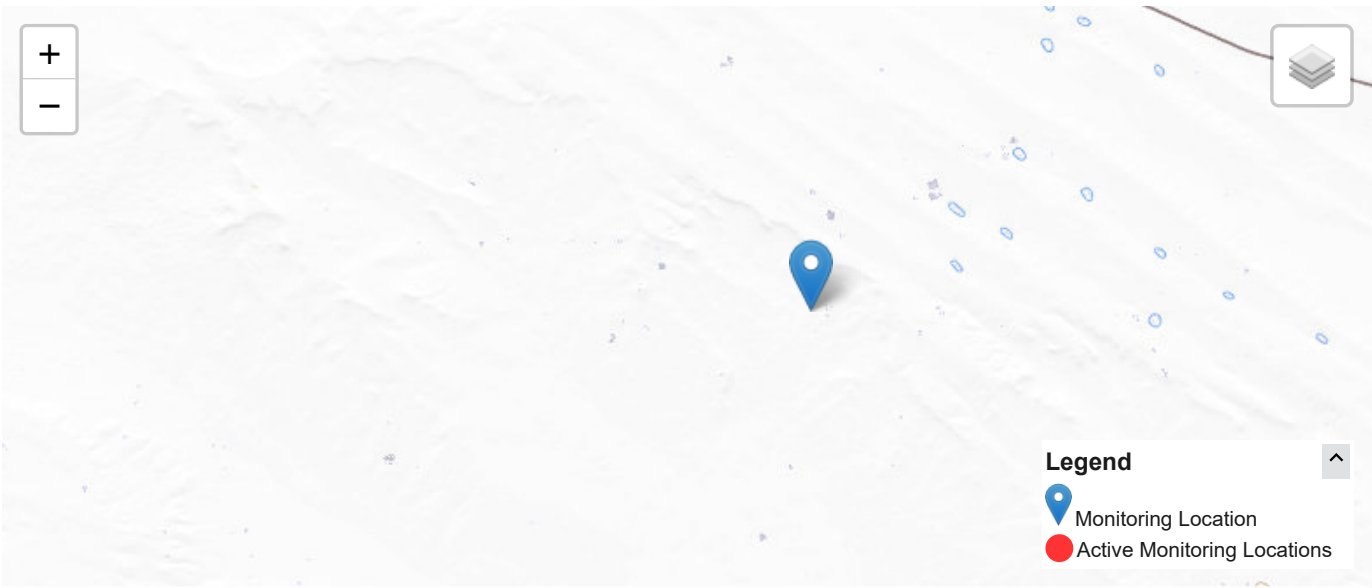
Parameter	Time	Result	Accuracy	Approval	Qualifiers
Depth to water level, ft below land surface	1968-03-28	56.53	0.01	Approved	Static
Depth to water level, ft below land surface	1971-02-04	58.95	0.01	Approved	Static
Depth to water level, ft below land surface	1972-09-22	56.53	0.01	Approved	Static
Depth to water level, ft below land surface	1976-12-16	57.58	0.01	Approved	Static
Depth to water level, ft below land surface	1981-03-10	56.03	0.01	Approved	Static
Depth to water level, ft below land surface	1986-03-20	55.66	0.01	Approved	Static

Groundwater Data BETA

i

Why don't I see a groundwater graph?

No groundwater level statistical daily data has been reported for this location.



Map by Esri | USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography D...

[About the Network-Linked Data Index \(NLDI\)](#)

Affiliated Networks BETA

[NWIS Monitoring Locations](#)

Summary of All Available Data

USGS Parameter Group	Data Types	Start Date	End Date
Physical	Groundwater Levels	1968-03-28	1986-03-20

[Water Data for the Nation inventory](#)

Location Metadata

## **Appendix B**

### **Field Data**

## Sample Log

Date: 9 16 22

Project: *Blueberry*

Project Number:

Latitude:

Longitude:

[illegible]

Sample Point = SP #1 @ #3 etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ #4

Refusal = SP #1 @ 4'-R

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

Resamples= SF #1 @ 5h or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Como Areas



## Sample Log

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

Project: Blueberry SWD H-Pump Discharge

Project Number: 16657 Latitude: 32.459186 Longitude: -103.519099

Sample ID	PID/Odor	Chloride Conc.	GPS
FL1@3	—	296	
FL2@3	—	296	
FL3@3	/	200	
WW1	—	296	
NW1	—	228	
FL4@3	—	200	
FL5@3	—	296	
FL6@3	—	296	
FL7@3	—	300	
FL8@3	—	300	
FL9@3	—	200	
FL10@3	—	264	
FL11@3	—	200	
FL12@3	/	300	
FL13@3	/	300	
FL14@3	/	264	
FL15@3	/	200	
FL17@3	/	264	
FL18@5	/	264	
FL19@5	/	300	
FL20@5	—	300	
FL21@5	—	264	
FL22@5	—	200	
FL23@5	—	200	
FL24@5	—	200	
EW1	—	264	
EW2	—	296	
FL25@6	—	264	
WW2	/	296	
FL26@5	—	200	
Def1@5	—	296	
FL27@6	—	120	
FL28@2	—	200	
FL29@2	—	200	
WW3	—	264	
EW6	—	244	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



## Sample Log

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

Project: \_\_\_\_\_

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

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 30 @ 6	←	296	
FL 31 @ 6	←	296	
FL 32 @ 5	✓	264	
SW 2	—	244	
NW 2	—	280	
EW 3	—	280	
SW 3	—	280	
WW 4	—	180	
NW 3	✓	180	
FL 33 @ 3	—	280	
FL 34 @ 5	—	244	
SW 1	—	244	
FL 35 @ 2	—	280	
FL 36 @ 5	—	244	
WW 5	—	212	
FL 37 @ 3	—	244	
FL 38 @ 3	—	280	
EW 4	—	280	
NW 4	—	244	
SW 6	—	280	
FL 39 @ 4	—	280	
N Def 1 @ 50'	—	1,652	
N Def 1 @ 4	←	280	
NH 1 @ 50'	—	280	
NH 1 @ 1	—	212	
E Def @ 50'	—	2,552	
E Def @ 1	—	244	
EH @ 50'	—	212	
EH @ 1	—	212	
FL 40 @ 50'	—	756	
FL 41 @ 50'	—	4,312	
FL 42 @ 50'	—	3,976	
W Def 1 @ 50'	—	4,676	
W Def 1 @ 2	—	212	
WH 1	—	280	
EW 5	—	244	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

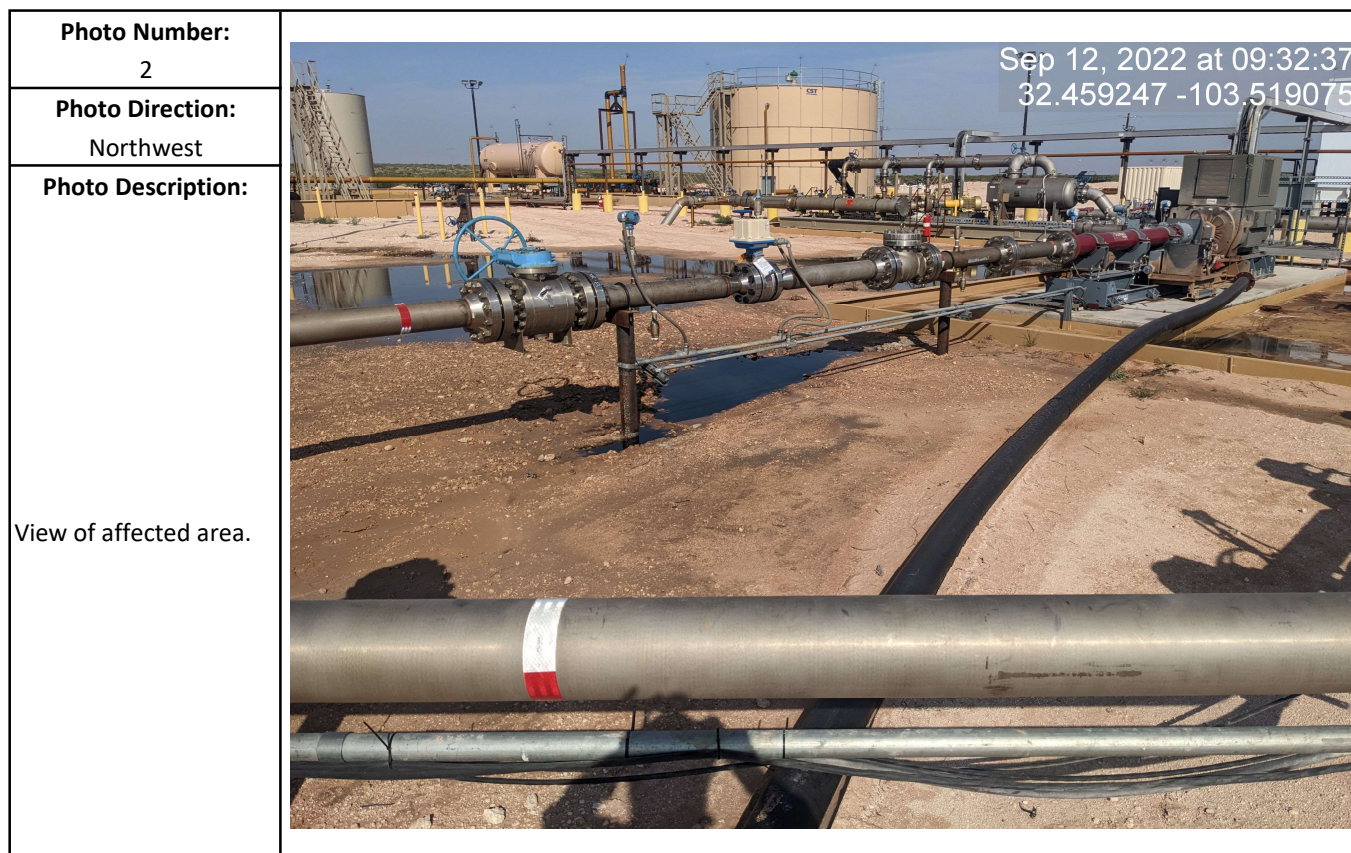
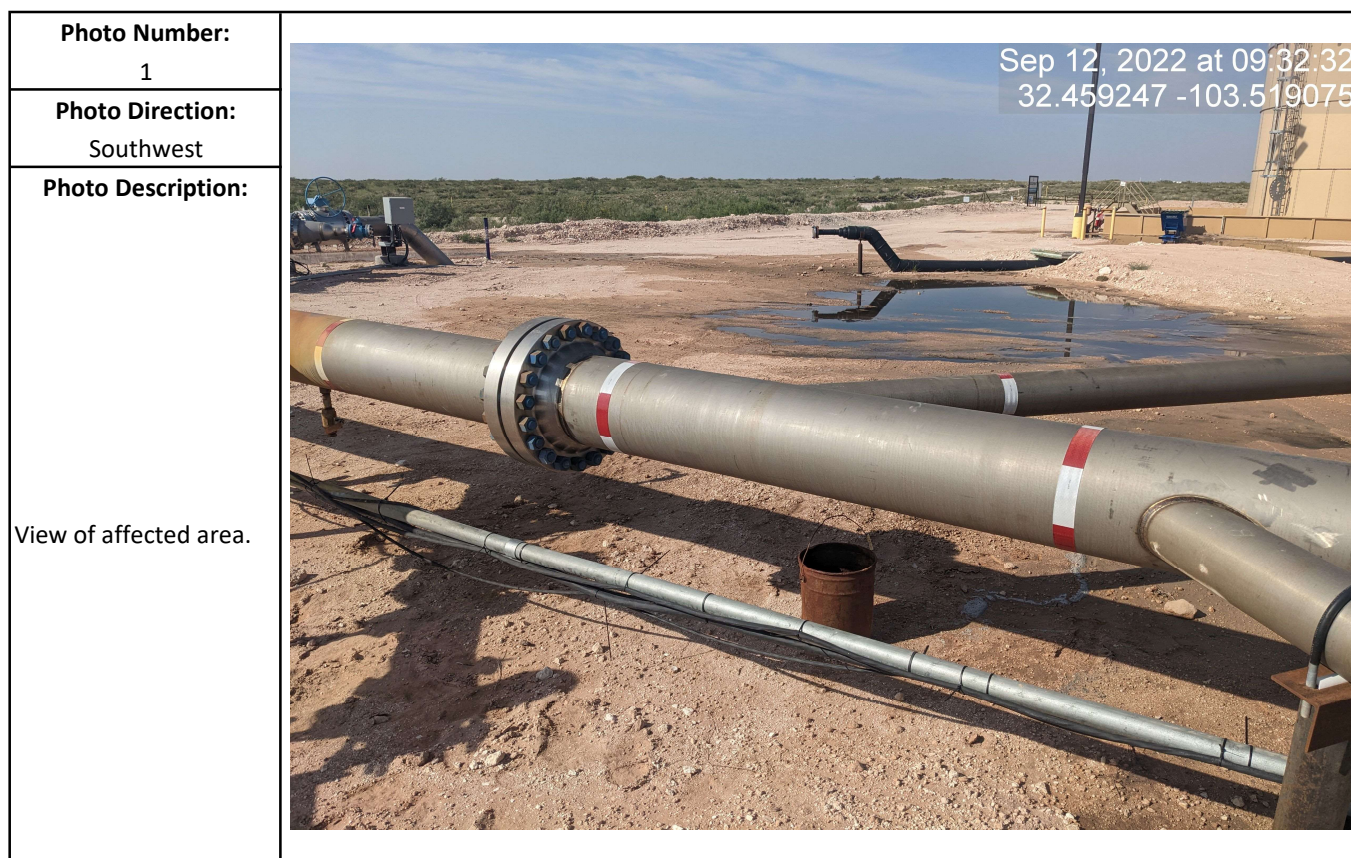
GPS Sample Points, Center of Comp Areas

## **Appendix C**

### **Photographic Log**




## Photographic Log





## Photographic Log

<b>Photo Number:</b> 3	 <p>Sep 12, 2022 at 09:32:47 32.459247 -103.519075</p>
<b>Photo Direction:</b> West-Southwest	
<b>Photo Description:</b>  View of affected area.	

<b>Photo Number:</b> 4	 <p>Oct 11, 2022 at 12:00:56 PM +32.459317,-103.519250 Hobbs NM 88231 United States</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the excavated area.	



## Photographic Log

<b>Photo Number:</b> 5	 <p>Oct 11, 2022 at 12:00:49 PM +32.459317, -103.519250 Hobbs NM 88231 United States</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 6	 <p>Oct 11, 2022 at 11:59:27 AM +32.459014, -103.519311 Hobbs NM 88231 United States</p>
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b>  View of the excavated area.	



## Photographic Log

<b>Photo Number:</b> 7	 <p>Oct 11, 2022 at 11:58:43 AM +32.458917,-103.519111 Hobbs NM 88231 United States</p>
<b>Photo Direction:</b> North	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 8	 <p>Oct 11, 2022 at 11:58:03 AM +32.458964,-103.518997 Hobbs NM 88231 United States</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b>  View of the excavated area.	



## Photographic Log

<b>Photo Number:</b> 9	 <p>Oct 31, 2022 at 5:32:16 PM +32.459038,-103.519322 Hobbs NM 88231 United States</p>
<b>Photo Direction:</b> North-Northeast	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	

<b>Photo Number:</b> 10	 <p>Oct 31, 2022 at 5:32:31 PM +32.458986,-103.519215 Hobbs NM 88231 United States</p>
<b>Photo Direction:</b> North-Northwest	
<b>Photo Description:</b>  View of the remediated area after backfill and regrading.	



## **Appendix D**

### **Laboratory Analytical Reports**



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

---

September 20, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUEBERRY

Enclosed are the results of analyses for samples received by the laboratory on 09/16/22 16:00.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/16/2022  
 Reported: 09/20/2022  
 Project Name: BLUEBERRY  
 Project Number: 10262  
 Project Location: GOODNIGHT - HOBBS

Sampling Date: 09/16/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: HDS 1 @ 2 (H224312-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/20/2022	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/19/2022	ND	172	85.9	200	3.47	
DRO >C10-C28*	<10.0	10.0	09/19/2022	ND	179	89.4	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	09/19/2022	ND					
Surrogate: 1-Chlorooctane	83.0 %	45.3-161							
Surrogate: 1-Chlorooctadecane	97.8 %	46.3-178							

**Sample ID: HDS 1 @ 3 (H224312-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/20/2022	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2022	ND	184	92.2	200	9.20	
DRO >C10-C28*	<10.0	10.0	09/20/2022	ND	177	88.4	200	8.68	
EXT DRO >C28-C36	<10.0	10.0	09/20/2022	ND					
Surrogate: 1-Chlorooctane	62.3 %	45.3-161							
Surrogate: 1-Chlorooctadecane	70.3 %	46.3-178							

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/16/2022  
 Reported: 09/20/2022  
 Project Name: BLUEBERRY  
 Project Number: 10262  
 Project Location: GOODNIGHT - HOBBS

Sampling Date: 09/16/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: HDS 2 @ 1 (H224312-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/20/2022	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2022	ND	184	92.2	200	9.20	
DRO >C10-C28*	<10.0	10.0	09/20/2022	ND	177	88.4	200	8.68	
EXT DRO >C28-C36	<10.0	10.0	09/20/2022	ND					
Surrogate: 1-Chlorooctane	67.5 %	45.3-161							
Surrogate: 1-Chlorooctadecane	76.2 %	46.3-178							

**Sample ID: HDS 2 @ 2 (H224312-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/20/2022	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2022	ND	184	92.2	200	9.20	
DRO >C10-C28*	<10.0	10.0	09/20/2022	ND	177	88.4	200	8.68	
EXT DRO >C28-C36	<10.0	10.0	09/20/2022	ND					
Surrogate: 1-Chlorooctane	73.7 %	45.3-161							
Surrogate: 1-Chlorooctadecane	83.0 %	46.3-178							

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/16/2022  
 Reported: 09/20/2022  
 Project Name: BLUEBERRY  
 Project Number: 10262  
 Project Location: GOODNIGHT - HOBBS

Sampling Date: 09/16/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: HDS 3 @ 1 (H224312-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/20/2022	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2022	ND	184	92.2	200	9.20	
DRO >C10-C28*	<10.0	10.0	09/20/2022	ND	177	88.4	200	8.68	
EXT DRO >C28-C36	<10.0	10.0	09/20/2022	ND					
Surrogate: 1-Chlorooctane	73.6 %	45.3-161							
Surrogate: 1-Chlorooctadecane	83.3 %	46.3-178							

**Sample ID: HDS 3 @ 2 (H224312-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/20/2022	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/20/2022	ND	184	92.2	200	9.20	
DRO >C10-C28*	<10.0	10.0	09/20/2022	ND	177	88.4	200	8.68	
EXT DRO >C28-C36	<10.0	10.0	09/20/2022	ND					
Surrogate: 1-Chlorooctane		66.6 %	45.3-161						
Surrogate: 1-Chlorooctadecane		74.5 %	46.3-178						

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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---

### Notes and Definitions

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

---

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\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions				<b>BILL TO</b>												<b>ANALYSIS REQUEST</b>											
Project Manager: Jole Lowry				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 West Marland				Company: Greenlight / Midstream																							
City: Hobbs State: NM Zip: 88240				Attn: albert martinez																							
Phone #: (575) 264-9884 Fax #:				Address:																							
Project #: Project Owner:				City: Hobbs																							
Project Name: Blue Beery				State: Zip:																							
Project Location: Rv-1 Hobbs				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													
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME													
H22432		HDS1 @ 2												9/16 11:00													
DC 1		HDS1 @ 3																									
2		HDS2 @ 1																									
3		HDS2 @ 2																									
4		HDS3 @ 1																									
5		HDS3 @ 2																									
6																											

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Relinquished By:		Date: 9/16		Received By:		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
Time: 11:00 pm						Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: email results			
		Time:							
Delivered By: (Circle One)		#113		Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other:		33.0c / 32.4c		Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		TO			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476





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

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September 30, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUEBERRY SWD H-PUMP DISCHARGE

Enclosed are the results of analyses for samples received by the laboratory on 09/27/22 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/30/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	RURAL UNIT		

**Sample ID: FL 1 @ 3 (H224492-01)**

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	09/30/2022	ND	1.94	97.1	2.00	6.30		
Toluene*	<0.050	0.050	09/30/2022	ND	1.89	94.4	2.00	5.83		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.78	88.9	2.00	6.99		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.53	92.1	6.00	7.37		
Total BTX	<0.300	0.300	09/30/2022	ND						

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

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/28/2022	ND	416	104	400	3.77		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	208	104	200	9.22		
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	225	113	200	7.91		
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND						

Surrogate: 1-Chlorooctane 90.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.1 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/30/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	RURAL UNIT		

**Sample ID: FL 2 @ 3 (H224492-02)**

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	09/30/2022	ND	1.94	97.1	2.00	6.30		
Toluene*	<0.050	0.050	09/30/2022	ND	1.89	94.4	2.00	5.83		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.78	88.9	2.00	6.99		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.53	92.1	6.00	7.37		
Total BTEx	<0.300	0.300	09/30/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/28/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2022	ND	208	104	200	9.22	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	225	113	200	7.91	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/30/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	RURAL UNIT		

**Sample ID: FL 3 @ 3 (H224492-03)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2022	ND	1.94	97.1	2.00	6.30		
Toluene*	<0.050	0.050	09/30/2022	ND	1.89	94.4	2.00	5.83		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.78	88.9	2.00	6.99		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.53	92.1	6.00	7.37		
Total BTX	<0.300	0.300	09/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/28/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2022	ND	208	104	200	9.22	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	225	113	200	7.91	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 94.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/30/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	RURAL UNIT		

**Sample ID: FL 4 @ 3 (H224492-04)**

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	09/30/2022	ND	1.94	97.1	2.00	6.30		
Toluene*	<0.050	0.050	09/30/2022	ND	1.89	94.4	2.00	5.83		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.78	88.9	2.00	6.99		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.53	92.1	6.00	7.37		
Total BTEx	<0.300	0.300	09/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/28/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2022	ND	208	104	200	9.22	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	225	113	200	7.91	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 95.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/30/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	RURAL UNIT		

**Sample ID: FL 5 @ 3 (H224492-05)**

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	09/30/2022	ND	1.94	97.1	2.00	6.30		
Toluene*	<0.050	0.050	09/30/2022	ND	1.89	94.4	2.00	5.83		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.78	88.9	2.00	6.99		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.53	92.1	6.00	7.37		
Total BTEx	<0.300	0.300	09/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/28/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2022	ND	208	104	200	9.22	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	225	113	200	7.91	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 93.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.2 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/30/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	RURAL UNIT		

**Sample ID: FL 6 @ 3 (H224492-06)**

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	09/30/2022	ND	1.94	97.1	2.00	6.30		
Toluene*	<0.050	0.050	09/30/2022	ND	1.89	94.4	2.00	5.83		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.78	88.9	2.00	6.99		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.53	92.1	6.00	7.37		
Total BTEx	<0.300	0.300	09/30/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/28/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2022	ND	208	104	200	9.22	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	225	113	200	7.91	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 96.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/30/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	RURAL UNIT		

**Sample ID: WW 1 (H224492-07)**

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	09/30/2022	ND	1.94	97.1	2.00	6.30		
Toluene*	<0.050	0.050	09/30/2022	ND	1.89	94.4	2.00	5.83		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.78	88.9	2.00	6.99		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.53	92.1	6.00	7.37		
Total BTX	<0.300	0.300	09/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/28/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2022	ND	208	104	200	9.22	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	225	113	200	7.91	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.3 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/30/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	RURAL UNIT		

**Sample ID: NW 1 (H224492-08)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/30/2022	ND	1.94	97.1	2.00	6.30		
Toluene*	<0.050	0.050	09/30/2022	ND	1.89	94.4	2.00	5.83		
Ethylbenzene*	<0.050	0.050	09/30/2022	ND	1.78	88.9	2.00	6.99		
Total Xylenes*	<0.150	0.150	09/30/2022	ND	5.53	92.1	6.00	7.37		
Total BTX	<0.300	0.300	09/30/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/28/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/29/2022	ND	208	104	200	9.22	
DRO >C10-C28*	<10.0	10.0	09/29/2022	ND	225	113	200	7.91	
EXT DRO >C28-C36	<10.0	10.0	09/29/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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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 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

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

<b>Company Name:</b> Etech Environmental & Safety Solutions <b>Project Manager:</b> Joel Lowrey <b>Address:</b> 2617 West Marland <b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240 <b>Phone #:</b> (575) 264-9884 <b>Fax #:</b> <b>Project #:</b> 16657 <b>Project Owner:</b> <b>Project Name:</b> Blueberry Sld H-pump Discharge <b>Project Location:</b> Royal Unit <b>Sampler Name:</b> Dominic Casarez				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> good right middle <b>Attn:</b> Albert Martinez <b>Address:</b> <b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>				<b>ANALYSIS REQUEST</b>																											
								<div style="display: flex; justify-content: space-between;"> <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>																											
FOR LAB USE ONLY																																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV		SAMPLING																							
				GROUNDWATER		WASTEWATER		SOIL		SLUDGE		OTHER		ACID/BASE		ICE / COOL		OTHER		DATE		TIME													
H224492																				9/27		4:20													
DL 1		FL 1 Q3																																	
2		FL 2 Q3																																	
3		FL 3 Q3																																	
4		FL 4 Q3																																	
5		FL 5 Q3																																	
6		FL 6 Q3																																	
7		VW 1																																	
8		NW 1																																	

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<b>Relinquished By:</b> 		<b>Date:</b> 9/27 <b>Time:</b> 4:20		<b>Received By:</b> 		<b>Phone Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Fax Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>REMARKS:</b>	
<b>Relinquished By:</b>		<b>Date:</b> <b>Time:</b>		<b>Received By:</b>		<b>email results</b>	
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other: 28.1c/28.5c				<b>Sample Condition</b> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>CHECKED BY:</b> (Initials)	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

October 04, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUEBERRY SWD H-PUMP DISCHARGE

Enclosed are the results of analyses for samples received by the laboratory on 09/29/22 16:17.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/04/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - RURAL HOBBS		

**Sample ID: FL 7 @ 3 (H224548-01)**

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	10/04/2022	ND	2.19	110	2.00	1.22	
Toluene*	<0.050	0.050	10/04/2022	ND	2.13	107	2.00	0.655	
Ethylbenzene*	<0.050	0.050	10/04/2022	ND	2.11	106	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/04/2022	ND	6.42	107	6.00	0.364	
Total BTX	<0.300	0.300	10/04/2022	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/03/2022	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	201	101	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	201	101	200	6.36	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 87.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.5 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/29/2022  
 Reported: 10/04/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 8 @ 3 (H224548-02)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/04/2022	ND	2.19	110	2.00	1.22		
Toluene*	<0.050	0.050	10/04/2022	ND	2.13	107	2.00	0.655		
Ethylbenzene*	<0.050	0.050	10/04/2022	ND	2.11	106	2.00	0.273		
Total Xylenes*	<0.150	0.150	10/04/2022	ND	6.42	107	6.00	0.364		
Total BTX	<0.300	0.300	10/04/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/03/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	201	101	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	201	101	200	6.36	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 84.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.0 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/29/2022  
 Reported: 10/04/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 9 @ 3 (H224548-03)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2022	ND	2.19	110	2.00	1.22	
Toluene*	<0.050	0.050	10/04/2022	ND	2.13	107	2.00	0.655	
Ethylbenzene*	<0.050	0.050	10/04/2022	ND	2.11	106	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/04/2022	ND	6.42	107	6.00	0.364	
Total BTX	<0.300	0.300	10/04/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/03/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	201	101	200	4.76	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	201	101	200	6.36	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/29/2022	Sampling Date:	09/29/2022
Reported:	10/04/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - RURAL HOBBS		

**Sample ID: FL 10 @ 3 (H224548-04)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2022	ND	2.19	110	2.00	1.22	
Toluene*	<0.050	0.050	10/04/2022	ND	2.13	107	2.00	0.655	
Ethylbenzene*	<0.050	0.050	10/04/2022	ND	2.11	106	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/04/2022	ND	6.42	107	6.00	0.364	
Total BTX	<0.300	0.300	10/04/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/03/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	208	104	200	3.41	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	212	106	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 72.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.7 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/29/2022  
 Reported: 10/04/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 11 @ 3 (H224548-05)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2022	ND	2.19	110	2.00	1.22	
Toluene*	<0.050	0.050	10/04/2022	ND	2.13	107	2.00	0.655	
Ethylbenzene*	<0.050	0.050	10/04/2022	ND	2.11	106	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/04/2022	ND	6.42	107	6.00	0.364	
Total BTX	<0.300	0.300	10/04/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/03/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	208	104	200	3.41	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	212	106	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 72.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.6 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/29/2022  
 Reported: 10/04/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 12 @ 3 (H224548-06)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2022	ND	2.19	110	2.00	1.22	
Toluene*	<0.050	0.050	10/04/2022	ND	2.13	107	2.00	0.655	
Ethylbenzene*	<0.050	0.050	10/04/2022	ND	2.11	106	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/04/2022	ND	6.42	107	6.00	0.364	
Total BTX	<0.300	0.300	10/04/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/03/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	208	104	200	3.41	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	212	106	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 69.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.7 % 46.3-178

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/29/2022  
 Reported: 10/04/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 13 @ 3 (H224548-07)**

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	10/04/2022	ND	2.19	110	2.00	1.22	
Toluene*	<0.050	0.050	10/04/2022	ND	2.13	107	2.00	0.655	
Ethylbenzene*	<0.050	0.050	10/04/2022	ND	2.11	106	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/04/2022	ND	6.42	107	6.00	0.364	
Total BTX	<0.300	0.300	10/04/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/03/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	208	104	200	3.41	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	212	106	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 64.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.2 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/29/2022  
 Reported: 10/04/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 14 @ 3 (H224548-08)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2022	ND	2.19	110	2.00	1.22	
Toluene*	<0.050	0.050	10/04/2022	ND	2.13	107	2.00	0.655	
Ethylbenzene*	<0.050	0.050	10/04/2022	ND	2.11	106	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/04/2022	ND	6.42	107	6.00	0.364	
Total BTX	<0.300	0.300	10/04/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/03/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	208	104	200	3.41	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	212	106	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 71.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.4 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/29/2022  
 Reported: 10/04/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 15 @ 3 (H224548-09)**

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	10/04/2022	ND	2.19	110	2.00	1.22	
Toluene*	<0.050	0.050	10/04/2022	ND	2.13	107	2.00	0.655	
Ethylbenzene*	<0.050	0.050	10/04/2022	ND	2.11	106	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/04/2022	ND	6.42	107	6.00	0.364	
Total BTX	<0.300	0.300	10/04/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/03/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	208	104	200	3.41	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	212	106	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 71.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/29/2022  
 Reported: 10/04/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 16 @ 3 (H224548-10)**

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	10/04/2022	ND	2.19	110	2.00	1.22		
Toluene*	<0.050	0.050	10/04/2022	ND	2.13	107	2.00	0.655		
Ethylbenzene*	<0.050	0.050	10/04/2022	ND	2.11	106	2.00	0.273		
Total Xylenes*	<0.150	0.150	10/04/2022	ND	6.42	107	6.00	0.364		
Total BTEx	<0.300	0.300	10/04/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/03/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2022	ND	208	104	200	3.41	
DRO >C10-C28*	<10.0	10.0	10/01/2022	ND	212	106	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	10/01/2022	ND					

Surrogate: 1-Chlorooctane 57.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 69.5 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 09/29/2022  
 Reported: 10/04/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 09/29/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 17 @ 3 (H224548-11)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2022	ND	2.19	110	2.00	1.22	
Toluene*	<0.050	0.050	10/04/2022	ND	2.13	107	2.00	0.655	
Ethylbenzene*	<0.050	0.050	10/04/2022	ND	2.11	106	2.00	0.273	
Total Xylenes*	<0.150	0.150	10/04/2022	ND	6.42	107	6.00	0.364	
Total BTX	<0.300	0.300	10/04/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/03/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2022	ND	208	104	200	3.41	
DRO >C10-C28*	<10.0	10.0	10/04/2022	ND	212	106	200	8.59	
EXT DRO >C28-C36	<10.0	10.0	10/04/2022	ND					

Surrogate: 1-Chlorooctane 77.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 82.6 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etch Environmental & Safety Solutions				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																	
Project Manager: Jole Lowrey				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: Good night																					
City: Hobbs State: NM Zip: 88240				Attn: Albert Martinez																					
Phone #: (575) 264-9884 Fax #:				Address:																					
Project #: Project Owner: Good night				City: Hobbs																					
Project Name: Blue berry SWD H-Pump Discharge				State: NM Zip:																					
Project Location: rural Hobbs				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	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME												
H224548												9 29													
DC	1 FL 7 @ 3																								
	2 FL 8 @ 3																								
	3 FL 9 @ 3																								
	4 FL 10 @ 3																								
	5 FL 11 @ 3																								
	6 FL 12 @ 3																								
	7 FL 13 @ 3																								
	8 FL 14 @ 3																								
	9 FL 15 @ 3																								
	10 FL 16 @ 3																								

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Relinquished By: Dominic Casarez	Date: 9.29	Received By: Tamara Alda Key	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Time: 1617	Sample Condition: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS:	
Sampler - UPS - Bus - Other: 25.0c/24.4c	Time:	CHECKED BY: (Initials) JO	email results	

↑ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

↑ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476





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

October 07, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUEBERRY SWD H-PUMP DISCHARGE

Enclosed are the results of analyses for samples received by the laboratory on 09/30/22 16:25.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/30/2022	Sampling Date:	09/30/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - RURAL HOBBS		

**Sample ID: FL 18 @ 5 (H224576-01)**

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	10/06/2022	ND	1.94	96.8	2.00	7.01		
Toluene*	<0.050	0.050	10/06/2022	ND	1.95	97.4	2.00	6.39		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	1.95	97.7	2.00	7.87		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.95	99.2	6.00	8.56		
Total BTEx	<0.300	0.300	10/06/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/04/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	199	99.7	200	1.42	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	198	99.2	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 93.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	09/30/2022	Sampling Date:	09/30/2022
Reported:	10/07/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - RURAL HOBBS		

**Sample ID: FL 19 @ 5 (H224576-02)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2022	ND	1.94	96.8	2.00	7.01	
Toluene*	<0.050	0.050	10/06/2022	ND	1.95	97.4	2.00	6.39	
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	1.95	97.7	2.00	7.87	
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.95	99.2	6.00	8.56	
Total BTX	<0.300	0.300	10/06/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/04/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	199	99.7	200	1.42	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	198	99.2	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 94.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/30/2022  
 Reported: 10/07/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 09/30/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 20 @ 5 (H224576-03)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	1.94	96.8	2.00	7.01		
Toluene*	<0.050	0.050	10/06/2022	ND	1.95	97.4	2.00	6.39		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	1.95	97.7	2.00	7.87		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.95	99.2	6.00	8.56		
Total BTX	<0.300	0.300	10/06/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/04/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	199	99.7	200	1.42	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	198	99.2	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.0 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/30/2022  
 Reported: 10/07/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 09/30/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 21 @ 5 (H224576-04)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	1.94	96.8	2.00	7.01		
Toluene*	<0.050	0.050	10/06/2022	ND	1.95	97.4	2.00	6.39		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	1.95	97.7	2.00	7.87		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.95	99.2	6.00	8.56		
Total BTX	<0.300	0.300	10/06/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/04/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	199	99.7	200	1.42	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	198	99.2	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/30/2022  
 Reported: 10/07/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 09/30/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 22 @ 5 (H224576-05)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/06/2022	ND	1.94	96.8	2.00	7.01		
Toluene*	<0.050	0.050	10/06/2022	ND	1.95	97.4	2.00	6.39		
Ethylbenzene*	<0.050	0.050	10/06/2022	ND	1.95	97.7	2.00	7.87		
Total Xylenes*	<0.150	0.150	10/06/2022	ND	5.95	99.2	6.00	8.56		
Total BTX	<0.300	0.300	10/06/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/04/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2022	ND	199	99.7	200	1.42	
DRO >C10-C28*	<10.0	10.0	10/05/2022	ND	198	99.2	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	10/05/2022	ND					

Surrogate: 1-Chlorooctane 91.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 97.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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

---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager





# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

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

<b>Company Name:</b> Etch Environmental & Safety Solutions				<b>BILL TO:</b>				<b>ANALYSIS REQUEST</b>													
<b>Project Manager:</b> JOEL Lowry				<b>P.O. #:</b>				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>													
<b>Address:</b> 2617 West Marland				<b>Company:</b> Good Night Midstream																	
<b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240				<b>Attn:</b> Albert Martinez																	
<b>Phone #:</b> (575) 264-9884 <b>Fax #:</b>				<b>Address:</b>																	
<b>Project #:</b>				<b>City:</b> Hobbs																	
<b>Project Name:</b> Blueberry SWD HPump Discharge				<b>State:</b> NM <b>Zip:</b>																	
<b>Project Location:</b> Rural Hobbs				<b>Phone #:</b>																	
<b>Sampler Name:</b> Dominick Casarez				<b>Fax #:</b>																	
<b>FOR LAB USE ONLY</b>																					
<b>Lab I.D.</b>		<b>Sample I.D.</b>		<b>MATRIX</b>		<b>PRESERV</b>		<b>SAMPLING</b>													
H224576																					
PC		1 FL 18 @ 5																			
		2 FL 19 @ 5																			
		3 FL 20 @ 5																			
		4 FL 21 @ 5																			
		5 FL 22 @ 5																			

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<b>Relinquished By:</b>		<b>Date:</b> 9/30		<b>Received By:</b>		<b>Phone Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>Add'l Phone #:</b>	
		<b>Time:</b> 10:25				<b>Fax Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>Add'l Fax #:</b>	
<b>Relinquished By:</b>		<b>Date:</b>		<b>Received By:</b>		<b>REMARKS:</b>			
						email results			
<b>Delivered By: (Circle One)</b>		#1/3		<b>Sample Condition</b>		<b>CHECKED BY:</b>			
<b>Sampler - UPS - Bus - Other:</b>		25.6°C/25.0		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		(Initials)			
				Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>					

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

---

October 10, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUEBERRY SWD H-PUMP DISCHARGE

Enclosed are the results of analyses for samples received by the laboratory on 10/03/22 16:16.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - RURAL HOBBS		

**Sample ID: EW 1 (H224597-01)**

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	10/08/2022	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84	
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85	
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95	
Total BTEX	<0.300	0.300	10/08/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/07/2022	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	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 116 % 45.3-161

Surrogate: 1-Chlorooctadecane 142 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/03/2022  
 Reported: 10/10/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 23 @ 5 (H224597-02)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2022	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84	
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85	
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95	
Total BTX	<0.300	0.300	10/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/07/2022	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	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	10.6	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 119 % 45.3-161

Surrogate: 1-Chlorooctadecane 145 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/03/2022  
 Reported: 10/10/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 24 @ 6 (H224597-03)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2022	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84	
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85	
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95	
Total BTX	<0.300	0.300	10/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/07/2022	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	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 122 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/03/2022  
 Reported: 10/10/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 25 @ 6 (H224597-04)**

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	10/08/2022	ND	2.23	112	2.00	2.88		
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95		
Total BTEx	<0.300	0.300	10/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/07/2022	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	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 114 % 45.3-161

Surrogate: 1-Chlorooctadecane 138 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/03/2022  
 Reported: 10/10/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 26 @ 5 (H224597-05)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2022	ND	2.23	112	2.00	2.88	
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84	
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85	
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95	
Total BTX	<0.300	0.300	10/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/07/2022	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	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	11.6	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 132 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/03/2022	Sampling Date:	10/03/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - RURAL HOBBS		

**Sample ID: EW 2 (H224597-06)**

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	10/08/2022	ND	2.23	112	2.00	2.88		
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95		
Total BTEx	<0.300	0.300	10/08/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/07/2022	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	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	14.0	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 129 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/03/2022  
 Reported: 10/10/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 2 (H224597-07)**

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	10/08/2022	ND	2.23	112	2.00	2.88		
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95		
Total BTEx	<0.300	0.300	10/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/07/2022	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	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 128 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/03/2022  
 Reported: 10/10/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/03/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: DEF 1 @ (H224597-08)**

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	10/08/2022	ND	2.23	112	2.00	2.88		
Toluene*	<0.050	0.050	10/08/2022	ND	2.14	107	2.00	2.84		
Ethylbenzene*	<0.050	0.050	10/08/2022	ND	2.04	102	2.00	2.85		
Total Xylenes*	<0.150	0.150	10/08/2022	ND	6.15	103	6.00	1.95		
Total BTEx	<0.300	0.300	10/08/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/07/2022	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	10/06/2022	ND	193	96.6	200	2.89	
DRO >C10-C28*	<10.0	10.0	10/06/2022	ND	182	90.9	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	10/06/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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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.
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 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions				BILL TO				ANALYSIS REQUEST															
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>															
Address: 2617 West Marland				Company: Goodnight / Midstream																			
City: Hobbs State: NM Zip: 88240				Attn: Albert Martinez 2																			
Phone #: (575) 264-9884 Fax #:				Address: Hobbs																			
Project #: Project Owner: Good night				City: Hobbs																			
Project Name: Blueberry SWD H - Pump Discharge				State: N.M Zip:																			
Project Location: Rural Lee Co				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	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME										
H224597												10-3	4:16										
PL	1 EW1																						
	2 FL23@5																						
	3 FL24@5																						
	4 FL25@5																						
	5 FL26@5																						
	6 EW2																						
	7 WW2																						
	8 Def 1 @																						

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Relinquished By:	Date: 10-3	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: 4:16	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
Relinquished By:	Time:	Received By:	email results	
Delivered By: (Circle One)	#13	Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other:	28.2° / 27.6°	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Initials) V.O.	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

October 10, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUEBERRY SWD H-PUMP DISCHARGE

Enclosed are the results of analyses for samples received by the laboratory on 10/04/22 16:25.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/04/2022	Sampling Date:	10/04/2022
Reported:	10/10/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - RURAL HOBBS		

**Sample ID: FL 27 @ 6 (H224630-01)**

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	10/09/2022	ND	2.13	106	2.00	3.75		
Toluene*	<0.050	0.050	10/09/2022	ND	2.02	101	2.00	3.82		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	1.95	97.4	2.00	3.75		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	5.89	98.1	6.00	5.06		
Total BTEx	<0.300	0.300	10/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/10/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	225	112	200	3.42	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	231	116	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 111 % 45.3-161

Surrogate: 1-Chlorooctadecane 135 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2022  
 Reported: 10/10/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 28 @ 2 (H224630-02)**

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	10/09/2022	ND	2.13	106	2.00	3.75		
Toluene*	<0.050	0.050	10/09/2022	ND	2.02	101	2.00	3.82		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	1.95	97.4	2.00	3.75		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	5.89	98.1	6.00	5.06		
Total BTEx	<0.300	0.300	10/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/10/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	225	112	200	3.42	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	231	116	200	2.97	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 117 % 45.3-161

Surrogate: 1-Chlorooctadecane 144 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/04/2022  
 Reported: 10/10/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 30 @ 6 (H224630-03)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2022	ND	2.13	106	2.00	3.75		
Toluene*	<0.050	0.050	10/09/2022	ND	2.02	101	2.00	3.82		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	1.95	97.4	2.00	3.75		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	5.89	98.1	6.00	5.06		
Total BTX	<0.300	0.300	10/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/10/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	210	105	200	2.40	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	216	108	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 131 % 45.3-161

Surrogate: 1-Chlorooctadecane 161 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2022  
 Reported: 10/10/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 31 @ 6 (H224630-04)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2022	ND	2.13	106	2.00	3.75		
Toluene*	<0.050	0.050	10/09/2022	ND	2.02	101	2.00	3.82		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	1.95	97.4	2.00	3.75		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	5.89	98.1	6.00	5.06		
Total BTX	<0.300	0.300	10/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/10/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	210	105	200	2.40	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	216	108	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 130 % 45.3-161

Surrogate: 1-Chlorooctadecane 158 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/04/2022  
 Reported: 10/10/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/04/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 6 (H224630-05)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/09/2022	ND	2.16	108	2.00	5.74		
Toluene*	<0.050	0.050	10/09/2022	ND	2.06	103	2.00	5.96		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	2.00	99.8	2.00	5.32		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	6.09	102	6.00	4.05		
Total BTX	<0.300	0.300	10/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/10/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	210	105	200	2.40	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	216	108	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 126 % 45.3-161

Surrogate: 1-Chlorooctadecane 155 % 46.3-178

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

---

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Mariand, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476





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

October 11, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUEBERRY SWD H-PUMP DISCHARGE

Enclosed are the results of analyses for samples received by the laboratory on 10/05/22 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/05/2022	Sampling Date:	10/05/2022
Reported:	10/11/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - RURAL HOBBS		

**Sample ID: FL 29 @ 2 (H224671-01)**

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	10/09/2022	ND	1.99	99.6	2.00	7.12	
Toluene*	<0.050	0.050	10/09/2022	ND	1.96	97.8	2.00	8.06	
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	1.90	95.1	2.00	8.34	
Total Xylenes*	<0.150	0.150	10/09/2022	ND	5.79	96.5	6.00	7.98	
Total BTX	<0.300	0.300	10/09/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/10/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	217	108	200	1.78	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	228	114	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 87.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.1 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/05/2022  
 Reported: 10/11/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/05/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 32 @ 5 (H224671-02)**

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	10/09/2022	ND	1.99	99.6	2.00	7.12		
Toluene*	<0.050	0.050	10/09/2022	ND	1.96	97.8	2.00	8.06		
Ethylbenzene*	<0.050	0.050	10/09/2022	ND	1.90	95.1	2.00	8.34		
Total Xylenes*	<0.150	0.150	10/09/2022	ND	5.79	96.5	6.00	7.98		
Total BTEx	<0.300	0.300	10/09/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/10/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2022	ND	217	108	200	1.78	
DRO >C10-C28*	<10.0	10.0	10/07/2022	ND	228	114	200	2.76	
EXT DRO >C28-C36	<10.0	10.0	10/07/2022	ND					

Surrogate: 1-Chlorooctane 97.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



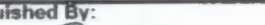

## ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether made in contract or tort, shall be limited to the amount paid by the client for the analysis. All damages 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 analysis. Cardinal's liability shall be limited to the actual direct damages caused by the analysis, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates, or non-employees, 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 waivers or otherwise.

Relinquished By: 		Date: 10/5	Received By: 	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Time: 11:15				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:	
Time:				email results	
Delivered By: (Circle One)			Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other: 24.2°C/23.6°C			Cool Intact	(Initials)	
			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Y.	
			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

† Cardinal cannot accept verbal changes/Please fax written changes to 505-393-2476





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

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October 12, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUEBERRY SWD H-PUMP DISCHARGE

Enclosed are the results of analyses for samples received by the laboratory on 10/06/22 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/06/2022	Sampling Date:	10/06/2022
Reported:	10/12/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - RURAL HOBBS		

**Sample ID: FL 36 @ 5 (H224710-01)**

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	10/11/2022	ND	2.17	109	2.00	4.71	
Toluene*	<0.050	0.050	10/11/2022	ND	2.06	103	2.00	4.83	
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	1.99	99.7	2.00	5.36	
Total Xylenes*	<0.150	0.150	10/11/2022	ND	6.07	101	6.00	5.20	
Total BTEX	<0.300	0.300	10/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/11/2022	ND	416	104	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	10/11/2022	ND	207	103	200	1.98	
DRO >C10-C28*	<10.0	10.0	10/11/2022	ND	190	95.1	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	10/11/2022	ND					

Surrogate: 1-Chlorooctane 94.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.6 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/06/2022	Sampling Date:	10/06/2022
Reported:	10/12/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - RURAL HOBBS		

**Sample ID: SW 4 (H224710-02)**

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	10/11/2022	ND	2.17	109	2.00	4.71	
Toluene*	<0.050	0.050	10/11/2022	ND	2.06	103	2.00	4.83	
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	1.99	99.7	2.00	5.36	
Total Xylenes*	<0.150	0.150	10/11/2022	ND	6.07	101	6.00	5.20	
Total BTEx	<0.300	0.300	10/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/11/2022	ND	416	104	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	10/11/2022	ND	207	103	200	1.98	
DRO >C10-C28*	<10.0	10.0	10/11/2022	ND	190	95.1	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	10/11/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.5 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/06/2022  
 Reported: 10/12/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 37 @ 3 (H224710-03)**

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	10/11/2022	ND	2.17	109	2.00	4.71	
Toluene*	<0.050	0.050	10/11/2022	ND	2.06	103	2.00	4.83	
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	1.99	99.7	2.00	5.36	
Total Xylenes*	<0.150	0.150	10/11/2022	ND	6.07	101	6.00	5.20	
Total BTEx	<0.300	0.300	10/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/11/2022	ND	416	104	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	10/11/2022	ND	207	103	200	1.98	
DRO >C10-C28*	<10.0	10.0	10/11/2022	ND	190	95.1	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	10/11/2022	ND					

Surrogate: 1-Chlorooctane 92.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.6 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/06/2022  
 Reported: 10/12/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 35 @ 2 (H224710-04)**

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	10/11/2022	ND	2.22	111	2.00	0.232		
Toluene*	<0.050	0.050	10/11/2022	ND	2.10	105	2.00	0.153		
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	2.03	101	2.00	0.491		
Total Xylenes*	<0.150	0.150	10/11/2022	ND	6.18	103	6.00	0.756		
Total BTEx	<0.300	0.300	10/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/11/2022	ND	416	104	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	10/11/2022	ND	207	103	200	1.98	
DRO >C10-C28*	<10.0	10.0	10/11/2022	ND	190	95.1	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	10/11/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	10/06/2022	Sampling Date:	10/06/2022
Reported:	10/12/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - RURAL HOBBS		

**Sample ID: FL 38 @ 3 (H224710-05)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2022	ND	2.22	111	2.00	0.232		
Toluene*	<0.050	0.050	10/11/2022	ND	2.10	105	2.00	0.153		
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	2.03	101	2.00	0.491		
Total Xylenes*	<0.150	0.150	10/11/2022	ND	6.18	103	6.00	0.756		
Total BTX	<0.300	0.300	10/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/11/2022	ND	416	104	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	10/11/2022	ND	207	103	200	1.98	
DRO >C10-C28*	<10.0	10.0	10/11/2022	ND	190	95.1	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	10/11/2022	ND					

Surrogate: 1-Chlorooctane 92.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.1 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/06/2022  
 Reported: 10/12/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 34 @ 5 (H224710-06)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2022	ND	2.22	111	2.00	0.232		
Toluene*	<0.050	0.050	10/11/2022	ND	2.10	105	2.00	0.153		
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	2.03	101	2.00	0.491		
Total Xylenes*	<0.150	0.150	10/11/2022	ND	6.18	103	6.00	0.756		
Total BTX	<0.300	0.300	10/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/11/2022	ND	416	104	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	10/11/2022	ND	207	103	200	1.98	
DRO >C10-C28*	<10.0	10.0	10/11/2022	ND	190	95.1	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	10/11/2022	ND					

Surrogate: 1-Chlorooctane 96.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/06/2022  
 Reported: 10/12/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 4 (H224710-07)**

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	10/11/2022	ND	2.22	111	2.00	0.232	
Toluene*	<0.050	0.050	10/11/2022	ND	2.10	105	2.00	0.153	
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	2.03	101	2.00	0.491	
Total Xylenes*	<0.150	0.150	10/11/2022	ND	6.18	103	6.00	0.756	
Total BTEx	<0.300	0.300	10/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/11/2022	ND	416	104	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	10/11/2022	ND	207	103	200	1.98	
DRO >C10-C28*	<10.0	10.0	10/11/2022	ND	190	95.1	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	10/11/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/06/2022  
 Reported: 10/12/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 33 @ 3 (H224710-08)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2022	ND	2.22	111	2.00	0.232		
Toluene*	<0.050	0.050	10/11/2022	ND	2.10	105	2.00	0.153		
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	2.03	101	2.00	0.491		
Total Xylenes*	<0.150	0.150	10/11/2022	ND	6.18	103	6.00	0.756		
Total BTX	<0.300	0.300	10/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/11/2022	ND	207	103	200	1.98	
DRO >C10-C28*	<10.0	10.0	10/11/2022	ND	190	95.1	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	10/11/2022	ND					

Surrogate: 1-Chlorooctane 98.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/06/2022	Sampling Date:	10/06/2022
Reported:	10/12/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - RURAL HOBBS		

**Sample ID: WW 5 (H224710-09)**

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	10/11/2022	ND	2.22	111	2.00	0.232		
Toluene*	<0.050	0.050	10/11/2022	ND	2.10	105	2.00	0.153		
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	2.03	101	2.00	0.491		
Total Xylenes*	<0.150	0.150	10/11/2022	ND	6.18	103	6.00	0.756		
Total BTEx	<0.300	0.300	10/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/11/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/11/2022	ND	207	103	200	1.98	
DRO >C10-C28*	<10.0	10.0	10/11/2022	ND	190	95.1	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	10/11/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	10/06/2022	Sampling Date:	10/06/2022
Reported:	10/12/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - RURAL HOBBS		

**Sample ID: SW 3 (H224710-10)**

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	10/11/2022	ND	2.22	111	2.00	0.232		
Toluene*	<0.050	0.050	10/11/2022	ND	2.10	105	2.00	0.153		
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	2.03	101	2.00	0.491		
Total Xylenes*	<0.150	0.150	10/11/2022	ND	6.18	103	6.00	0.756		
Total BTEx	<0.300	0.300	10/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/11/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2022	ND	216	108	200	0.0431	
DRO >C10-C28*	<10.0	10.0	10/10/2022	ND	221	110	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 73.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.7 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/06/2022  
 Reported: 10/12/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 2 (H224710-11)**

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	10/11/2022	ND	2.22	111	2.00	0.232		
Toluene*	<0.050	0.050	10/11/2022	ND	2.10	105	2.00	0.153		
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	2.03	101	2.00	0.491		
Total Xylenes*	<0.150	0.150	10/11/2022	ND	6.18	103	6.00	0.756		
Total BTEx	<0.300	0.300	10/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/11/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2022	ND	216	108	200	0.0431	
DRO >C10-C28*	<10.0	10.0	10/10/2022	ND	221	110	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 78.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/06/2022  
 Reported: 10/12/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 1 (H224710-12)**

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	10/11/2022	ND	2.22	111	2.00	0.232		
Toluene*	<0.050	0.050	10/11/2022	ND	2.10	105	2.00	0.153		
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	2.03	101	2.00	0.491		
Total Xylenes*	<0.150	0.150	10/11/2022	ND	6.18	103	6.00	0.756		
Total BTEx	<0.300	0.300	10/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2022	ND	216	108	200	0.0431	
DRO >C10-C28*	<10.0	10.0	10/10/2022	ND	221	110	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 75.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/06/2022  
 Reported: 10/12/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 2 (H224710-13)**

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	10/11/2022	ND	2.22	111	2.00	0.232		
Toluene*	<0.050	0.050	10/11/2022	ND	2.10	105	2.00	0.153		
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	2.03	101	2.00	0.491		
Total Xylenes*	<0.150	0.150	10/11/2022	ND	6.18	103	6.00	0.756		
Total BTEx	<0.300	0.300	10/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2022	ND	216	108	200	0.0431	
DRO >C10-C28*	<10.0	10.0	10/10/2022	ND	221	110	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 80.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.5 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/06/2022  
 Reported: 10/12/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/06/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: EW3 (H224710-14)**

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	10/11/2022	ND	2.22	111	2.00	0.232		
Toluene*	<0.050	0.050	10/11/2022	ND	2.10	105	2.00	0.153		
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	2.03	101	2.00	0.491		
Total Xylenes*	<0.150	0.150	10/11/2022	ND	6.18	103	6.00	0.756		
Total BTEX	<0.300	0.300	10/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2022	ND	216	108	200	0.0431	
DRO >C10-C28*	<10.0	10.0	10/10/2022	ND	221	110	200	0.278	
EXT DRO >C28-C36	<10.0	10.0	10/10/2022	ND					

Surrogate: 1-Chlorooctane 75.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.6 % 46.3-178

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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 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etch Environmental & Safety Solutions				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Joel Lowry</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: 2617 West Marland				Company: <u>Good night / Midstream</u>															
City: Hobbs State: NM Zip: 88240				Attn: <u>Albert Martinez</u>															
Phone #: (575) 264-9884 Fax #:				Address:															
Project #: Project Owner: <u>Good night</u>				City: <u>Hobbs</u>															
Project Name: <u>Blue berry SWD H-pump Discharge</u>				State: <u>NM</u> Zip:															
Project Location: <u>Rural Loving NM</u>				Phone #:															
Sampler Name: <u>Dominic Casarez</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(G/RAB OR (C)OMP		# CONTAINERS		MATRIX		PRESERV		SAMPLING							
				GROUNDWATER		WASTEWATER		SOIL		SLUDGE		OTHER							
								ACID/BASE		ICE / COOL		OTHER							
												DATE		TIME					
<u>H224710</u>		<u>DC 1 FL 36 @ 5</u>												<u>10-6 4:15</u>					
		<u>2 SWH</u>																	
		<u>3 FL 37 @ 3</u>																	
		<u>4 FL 38 @ 2</u>																	
		<u>5 FL 38 @ 3</u>																	
		<u>6 FL 34 @ 5</u>																	
		<u>7 WWH</u>																	
		<u>8 FL 33 @ 5</u>																	
		<u>9 WWS</u>																	
		<u>10 SW 3</u>																	

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Relinquished By:	Date: <u>10-6</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: <u>4:15</u>		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results	
Delivered By: (Circle One)	#113	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: <u>26.8°C / 26.2°C</u>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	<u>T.O.</u>	
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		



† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



## ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>Etch Environmental &amp; Safety Solutions</b>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																																																																																																																
Project Manager: <b>Joel Lowry</b>				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: <b>2617 West Marland</b>				Company: <b>Good Night / Midstream</b>																																																																																																																																				
City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88240</b>				Attn: <b>Albert Martinez</b>																																																																																																																																				
Phone #: <b>(575) 264-9884</b> Fax #:				Address:																																																																																																																																				
Project #: Project Owner: <b>Good Night</b>				City: <b>Hobbs</b>																																																																																																																																				
Project Name: <b>Blueberry SWD Hump Discharge</b>				State: <b>NM</b> Zip:																																																																																																																																				
Project Location: <b>Rural Lea co</b>				Phone #:																																																																																																																																				
Sampler Name: <b>Dominic Casarez</b>				Fax #:																																																																																																																																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left;">FOR LAB USE ONLY</th> <th rowspan="2">Lab I.D.</th> <th rowspan="2">Sample I.D.</th> <th rowspan="2">GIRAB OR (C)OMP</th> <th rowspan="2"># CONTAINERS</th> <th colspan="6">MATRIX</th> <th colspan="2">PRESERV.</th> <th colspan="2">SAMPLING</th> <th rowspan="2">DATE</th> <th rowspan="2">TIME</th> </tr> <tr> <th></th> <th></th> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>SIL</th> <th>SLUDGE</th> <th>OTHER</th> <th>ACID/BASE</th> <th>ICE / COOL</th> <th>OTHER</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td><b>H224710</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><b>DC</b></td> <td><b>11</b></td> <td><b>NW2</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b>10</b></td> <td><b>6 4 15</b></td> </tr> <tr> <td></td> <td><b>12</b></td> <td><b>SW1</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td><b>13</b></td> <td><b>SW2</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td><b>14</b></td> <td><b>EW3</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>																FOR LAB USE ONLY		Lab I.D.	Sample I.D.	GIRAB OR (C)OMP	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME			GROUNDWATER	WASTEWATER	SOIL	SIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER			<b>H224710</b>																		<b>DC</b>	<b>11</b>	<b>NW2</b>														<b>10</b>	<b>6 4 15</b>		<b>12</b>	<b>SW1</b>																	<b>13</b>	<b>SW2</b>																	<b>14</b>	<b>EW3</b>															
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<p>Delivered By: (Circle One) <b>#113</b></p> <p>Sampler - UPS - Bus - Other: <b>26.8c / 26.2c</b></p> <p>Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes  <input checked="" type="checkbox"/> No <input type="checkbox"/> No</p> <p>CHECKED BY: (Initials) <b>VO</b></p>																																																																																																																																								
<p>REMARKS: <b>email results</b></p>																																																																																																																																								

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476





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

October 13, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUEBERRY SWD H-PUMP DISCHARGE

Enclosed are the results of analyses for samples received by the laboratory on 10/07/22 16:25.

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/ga/lab\\_accred\\_certif.html](http://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	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 "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/07/2022	Sampling Date:	10/07/2022
Reported:	10/13/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - RURAL HOBBS		

**Sample ID: E DEF @ 3 (H224731-01)**

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	10/11/2022	ND	2.27	114	2.00	4.74	
Toluene*	<0.050	0.050	10/11/2022	ND	2.16	108	2.00	4.44	
Ethylbenzene*	<0.050	0.050	10/11/2022	ND	2.09	105	2.00	4.47	
Total Xylenes*	<0.150	0.150	10/11/2022	ND	6.37	106	6.00	4.32	
Total BTX	<0.300	0.300	10/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	10/12/2022	ND	384	96.0	400	4.08		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	199	99.3	200	0.826	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	201	100	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/07/2022  
 Reported: 10/13/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/07/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: E H 1 @ 1 (H224731-02)**

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	10/12/2022	ND	1.97	98.4	2.00	4.46		
Toluene*	<0.050	0.050	10/12/2022	ND	2.11	106	2.00	5.01		
Ethylbenzene*	<0.050	0.050	10/12/2022	ND	1.92	95.9	2.00	2.37		
Total Xylenes*	<0.150	0.150	10/12/2022	ND	5.77	96.1	6.00	3.48		
Total BTEX	<0.300	0.300	10/12/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/12/2022	ND	384	96.0	400	4.08		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	199	99.3	200	0.826	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	201	100	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/07/2022  
 Reported: 10/13/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/07/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: E H 1 @ SUR (H224731-03)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2022	ND	1.97	98.4	2.00	4.46	
Toluene*	<0.050	0.050	10/12/2022	ND	2.11	106	2.00	5.01	
Ethylbenzene*	<0.050	0.050	10/12/2022	ND	1.92	95.9	2.00	2.37	
Total Xylenes*	<0.150	0.150	10/12/2022	ND	5.77	96.1	6.00	3.48	
Total BTX	<0.300	0.300	10/12/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/12/2022	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	199	99.3	200	0.826	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	201	100	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/07/2022  
 Reported: 10/13/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/07/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 4 (H224731-04)**

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	10/12/2022	ND	1.97	98.4	2.00	4.46		
Toluene*	<0.050	0.050	10/12/2022	ND	2.11	106	2.00	5.01		
Ethylbenzene*	<0.050	0.050	10/12/2022	ND	1.92	95.9	2.00	2.37		
Total Xylenes*	<0.150	0.150	10/12/2022	ND	5.77	96.1	6.00	3.48		
Total BTEx	<0.300	0.300	10/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/12/2022	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	199	99.3	200	0.826	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	201	100	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/07/2022  
 Reported: 10/13/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/07/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: N DEF 1 @ SUR (H224731-05)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/12/2022	ND	1.97	98.4	2.00	4.46		
Toluene*	<0.050	0.050	10/12/2022	ND	2.11	106	2.00	5.01		
Ethylbenzene*	<0.050	0.050	10/12/2022	ND	1.92	95.9	2.00	2.37		
Total Xylenes*	<0.150	0.150	10/12/2022	ND	5.77	96.1	6.00	3.48		
Total BTX	<0.300	0.300	10/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	10/12/2022	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	199	99.3	200	0.826	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	201	100	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/07/2022  
 Reported: 10/13/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/07/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 6 (H224731-06)**

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	10/12/2022	ND	1.97	98.4	2.00	4.46		
Toluene*	<0.050	0.050	10/12/2022	ND	2.11	106	2.00	5.01		
Ethylbenzene*	<0.050	0.050	10/12/2022	ND	1.92	95.9	2.00	2.37		
Total Xylenes*	<0.150	0.150	10/12/2022	ND	5.77	96.1	6.00	3.48		
Total BTEx	<0.300	0.300	10/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/12/2022	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	199	99.3	200	0.826	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	201	100	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/07/2022  
 Reported: 10/13/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/07/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NH 1 @ 1 (H224731-07)**

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	10/12/2022	ND	1.97	98.4	2.00	4.46		
Toluene*	<0.050	0.050	10/12/2022	ND	2.11	106	2.00	5.01		
Ethylbenzene*	<0.050	0.050	10/12/2022	ND	1.92	95.9	2.00	2.37		
Total Xylenes*	<0.150	0.150	10/12/2022	ND	5.77	96.1	6.00	3.48		
Total BTEx	<0.300	0.300	10/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/12/2022	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	199	99.3	200	0.826	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	201	100	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/07/2022  
 Reported: 10/13/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/07/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: NH 1 @ SUR (H224731-08)**

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	10/12/2022	ND	1.97	98.4	2.00	4.46		
Toluene*	<0.050	0.050	10/12/2022	ND	2.11	106	2.00	5.01		
Ethylbenzene*	<0.050	0.050	10/12/2022	ND	1.92	95.9	2.00	2.37		
Total Xylenes*	<0.150	0.150	10/12/2022	ND	5.77	96.1	6.00	3.48		
Total BTEx	<0.300	0.300	10/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/12/2022	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	199	99.3	200	0.826	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	201	100	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/07/2022	Sampling Date:	10/07/2022
Reported:	10/13/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	** (See Notes)
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - RURAL HOBBS		

**Sample ID: NW 4 (H224731-09)**

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	10/12/2022	ND	1.97	98.4	2.00	4.46		
Toluene*	<0.050	0.050	10/12/2022	ND	2.11	106	2.00	5.01		
Ethylbenzene*	<0.050	0.050	10/12/2022	ND	1.92	95.9	2.00	2.37		
Total Xylenes*	<0.150	0.150	10/12/2022	ND	5.77	96.1	6.00	3.48		
Total BTEx	<0.300	0.300	10/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/12/2022	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	199	99.3	200	0.826	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	201	100	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/07/2022  
 Reported: 10/13/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/07/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: N DEF 1 @ 4 (H224731-10)**

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	10/12/2022	ND	1.97	98.4	2.00	4.46	
Toluene*	<0.050	0.050	10/12/2022	ND	2.11	106	2.00	5.01	
Ethylbenzene*	<0.050	0.050	10/12/2022	ND	1.92	95.9	2.00	2.37	
Total Xylenes*	<0.150	0.150	10/12/2022	ND	5.77	96.1	6.00	3.48	
Total BTX	<0.300	0.300	10/12/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/12/2022	ND	400	100	400	11.3	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	199	99.3	200	0.826	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	201	100	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 97.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/07/2022  
 Reported: 10/13/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/07/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: E DEF @ SUR (H224731-11)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/12/2022	ND	1.97	98.4	2.00	4.46		
Toluene*	<0.050	0.050	10/12/2022	ND	2.11	106	2.00	5.01		
Ethylbenzene*	<0.050	0.050	10/12/2022	ND	1.92	95.9	2.00	2.37		
Total Xylenes*	<0.150	0.150	10/12/2022	ND	5.77	96.1	6.00	3.48		
Total BTX	<0.300	0.300	10/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	22800	16.0	10/12/2022	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	199	99.3	200	0.826	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	201	100	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/07/2022  
 Reported: 10/13/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/07/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 39 @ 4 (H224731-12)**

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	10/12/2022	ND	1.97	98.4	2.00	4.46		
Toluene*	<0.050	0.050	10/12/2022	ND	2.11	106	2.00	5.01		
Ethylbenzene*	<0.050	0.050	10/12/2022	ND	1.92	95.9	2.00	2.37		
Total Xylenes*	<0.150	0.150	10/12/2022	ND	5.77	96.1	6.00	3.48		
Total BTEx	<0.300	0.300	10/12/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/12/2022	ND	400	100	400	11.3		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2022	ND	199	99.3	200	0.826	
DRO >C10-C28*	<10.0	10.0	10/12/2022	ND	201	100	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	10/12/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 15 of 16

Company Name: Etch Environmental & Safety Solutions				BILL TO				ANALYSIS REQUEST																	
Project Manager: Cole Lowry				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																	
Address: 2617 West Marland				Company: Goodnight																					
City: Hobbs State: NM Zip: 88240				Attn: Albert Martinez																					
Phone #: (575) 264-9884 Fax #:				Address:																					
Project #: Project Owner: Goodnight				City: Hobbs																					
Project Name: Blue berry surd Hump Discharge				State: NM Zip:																					
Project Location: Rural Lea Co				Phone #:																					
Sampler Name: Dominic Casarez				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		MATRIX		PRESERV		SAMPLING																	
				GROUNDWATER																					
				WASTEWATER																					
				SOIL																					
				OIL																					
				SLUDGE																					
				OTHER																					
				ACID/BASE																					
				ICE / COOL																					
				OTHER																					
				DATE		TIME																			
H224731		1 E def @ 3						10-7																	
DC		2 E H 1 @ 1																							
		3 E H 1 @ SUR																							
		4 E W 4																							
		5 N Def 1 @ SUR																							
		6 SW 6																							
		7 N H 1 @ 1																							
		8 N H 1 @ SUR																							
		9 N W 4																							
		10 N Def 1 @ W 4																							
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Relinquished By: Don				Date: 10-7				Received By: Tamara Alda				Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Add'l Phone #:									
				Time: 1625								Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Add'l Fax #:									
Relinquished By:				Date:				Received By:				REMARKS: email results													
				Time:																					
Delivered By: (Circle One)				#13				Sample Condition				CHECKED BY:													
Sampler - UPS - Bus - Other:				24.3°C / 23.7°C				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Initials: [Signature]													

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476





# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etch Environmental & Safety Solutions				BILL TO												ANALYSIS REQUEST											
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 West Marland				Company: Goodnight																							
City: Hobbs State: NM Zip: 88240				Attn: Albert Martinez																							
Phone #: (575) 264-9884 Fax #:				Address:																							
Project #: Project Owner: Goodnight				City: Hobbs																							
Project Name: Blueberry SWD H River Discharge				State: NM Zip:																							
Project Location: Rural Lea.co				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	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME														
A224731	De 11 E Det @ 501					/						10-7															
PC 12	FL 39 @ 4					/						10-7															

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Relinquished By: [Signature]	Date: 10-7	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 1425		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results	
Delivered By: (Circle One)	#13	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	24.3°C / 23.7°C	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	J.O.	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476





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

October 17, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUEBERRY SWD H-PUMP DISCHARGE

Enclosed are the results of analyses for samples received by the laboratory on 10/10/22 15:35.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/10/2022  
 Reported: 10/17/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 40 @ SUR (H224753-01)**

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	10/14/2022	ND	2.06	103	2.00	3.43		
Toluene*	<0.050	0.050	10/14/2022	ND	2.02	101	2.00	3.40		
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.5	2.00	3.82		
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.04	101	6.00	4.93		
Total BTEx	<0.300	0.300	10/14/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	10/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	217	109	200	0.997	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	228	114	200	0.242	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 81.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.1 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/10/2022  
 Reported: 10/17/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 41 @ SUR (H224753-02)**

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	10/14/2022	ND	2.06	103	2.00	3.43		
Toluene*	<0.050	0.050	10/14/2022	ND	2.02	101	2.00	3.40		
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.5	2.00	3.82		
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.04	101	6.00	4.93		
Total BTEx	<0.300	0.300	10/14/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3240	16.0	10/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	217	109	200	0.997	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	228	114	200	0.242	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 93.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/10/2022  
 Reported: 10/17/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 42 @ SUR (H224753-03)**

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/14/2022	ND	2.06	103	2.00	3.43		
Toluene*	<0.050	0.050	10/14/2022	ND	2.02	101	2.00	3.40		
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.5	2.00	3.82		
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.04	101	6.00	4.93		
Total BTX	<0.300	0.300	10/14/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6320	16.0	10/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	217	109	200	0.997	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	228	114	200	0.242	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 81.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/10/2022  
 Reported: 10/17/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: WH 1 (H224753-04)**

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	10/14/2022	ND	2.06	103	2.00	3.43	
Toluene*	<0.050	0.050	10/14/2022	ND	2.02	101	2.00	3.40	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	1.99	99.5	2.00	3.82	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.04	101	6.00	4.93	
Total BTEx	<0.300	0.300	10/14/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	217	109	200	0.997	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	228	114	200	0.242	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 78.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/10/2022  
 Reported: 10/17/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 5 (H224753-05)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.32	116	2.00	4.87	
Toluene*	<0.050	0.050	10/14/2022	ND	2.21	110	2.00	4.79	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.15	107	2.00	4.59	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.48	108	6.00	4.14	
Total BTX	<0.300	0.300	10/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	217	109	200	0.997	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	228	114	200	0.242	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 86.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/10/2022  
 Reported: 10/17/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EW 6 (H224753-06)**

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	10/14/2022	ND	2.32	116	2.00	4.87		
Toluene*	<0.050	0.050	10/14/2022	ND	2.21	110	2.00	4.79		
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.15	107	2.00	4.59		
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.48	108	6.00	4.14		
Total BTEx	<0.300	0.300	10/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	217	109	200	0.997	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	228	114	200	0.242	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 83.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.2 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/10/2022  
 Reported: 10/17/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W DEF 1 @ SUR (H224753-07)**

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	10/14/2022	ND	2.32	116	2.00	4.87		
Toluene*	<0.050	0.050	10/14/2022	ND	2.21	110	2.00	4.79		
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.15	107	2.00	4.59		
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.48	108	6.00	4.14		
Total BTEx	<0.300	0.300	10/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5200	16.0	10/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	193	96.3	200	0.921	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	194	96.9	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 108 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/10/2022  
 Reported: 10/17/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/10/2022  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W DEF 1 @ 2 (H224753-08)**

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	10/14/2022	ND	2.32	116	2.00	4.87		
Toluene*	<0.050	0.050	10/14/2022	ND	2.21	110	2.00	4.79		
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.15	107	2.00	4.59		
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.48	108	6.00	4.14		
Total BTEX	<0.300	0.300	10/14/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	193	96.3	200	0.921	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	194	96.9	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					

Surrogate: 1-Chlorooctane 94.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.3 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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---

### Notes and Definitions

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

---

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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

October 19, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUEBERRY SWD H-PUMP DISCHARGE

Enclosed are the results of analyses for samples received by the laboratory on 10/18/22 10:31.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/18/2022  
 Reported: 10/19/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 10/17/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: EDEF @ 6" (H224881-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	10/19/2022	ND	432	108	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

---

Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager


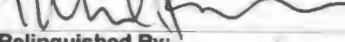





**101 East Marland, Hobbs, NM 88240**  
**(575) 393-2326 FAX (575) 393-2476**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By:  Relinquished By: 		Date: 10-18-22 Time: 1031 Received By:  Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Observed Temp. °C 4.7°C Corrected Temp. °C 4.1°C		Sample Condition Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: (Initials) 	
				Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #113 Correction Factor -0.6°C	
				Bacteria (only) Sample Condition Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C _____ Corrected Temp. °C _____	

FORM-008 R 3.3 07/18/22

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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

---

November 23, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUEBERRY SWD H-PUMP DISCHARGE

Enclosed are the results of analyses for samples received by the laboratory on 11/18/22 14:55.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/23/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	Cool & Intact
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - RURAL HOBBS		

**Sample ID: CONT. NORTH (H225466-01)**

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	11/22/2022	ND	1.79	89.7	2.00	10.2	
Toluene*	<0.050	0.050	11/22/2022	ND	1.84	92.1	2.00	11.0	
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.84	92.1	2.00	10.5	
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.60	93.4	6.00	11.3	
Total BTEX	<0.300	0.300	11/22/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	11/22/2022	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	11/22/2022	ND	208	104	200	0.121	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 123 % 45.3-161

Surrogate: 1-Chlorooctadecane 136 % 46.3-178

Cardinal Laboratories

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/18/2022	Sampling Date:	11/18/2022
Reported:	11/23/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY SWD H-PUMP DISCHARGE	Sampling Condition:	Cool & Intact
Project Number:	16657	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - RURAL HOBBS		

**Sample ID: CONT. EAST (H225466-02)**

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	11/22/2022	ND	1.79	89.7	2.00	10.2		
Toluene*	<0.050	0.050	11/22/2022	ND	1.84	92.1	2.00	11.0		
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.84	92.1	2.00	10.5		
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.60	93.4	6.00	11.3		
Total BTEx	<0.300	0.300	11/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	11/22/2022	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	11/22/2022	ND	208	104	200	0.121	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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\*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 11/18/2022  
 Reported: 11/23/2022  
 Project Name: BLUEBERRY SWD H-PUMP DISCHARGE  
 Project Number: 16657  
 Project Location: GOODNIGHT - RURAL HOBBS

Sampling Date: 11/18/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CONT. WEST (H225466-03)**

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	11/22/2022	ND	1.79	89.7	2.00	10.2		
Toluene*	<0.050	0.050	11/22/2022	ND	1.84	92.1	2.00	11.0		
Ethylbenzene*	<0.050	0.050	11/22/2022	ND	1.84	92.1	2.00	10.5		
Total Xylenes*	<0.150	0.150	11/22/2022	ND	5.60	93.4	6.00	11.3		
Total BTEx	<0.300	0.300	11/22/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12100	16.0	11/22/2022	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	11/22/2022	ND	208	104	200	0.121	
DRO >C10-C28*	<10.0	10.0	11/22/2022	ND	213	106	200	7.32	
EXT DRO >C28-C36	<10.0	10.0	11/22/2022	ND					

Surrogate: 1-Chlorooctane 97.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

Cardinal Laboratories

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Mike Snyder For 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 "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



## CARDINAL LABORATORIES

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

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

FORM-006  
Revision 1.0

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

## **Appendix E**

### **Regulatory Correspondence**

**Kathy Purvis**

---

**From:** Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>  
**Sent:** Wednesday, October 12, 2022 11:20 AM  
**To:** Kathy Purvis  
**Cc:** Bratcher, Michael, EMNRD  
**Subject:** FW: [EXTERNAL] Notification of confirmation sampling, nAPP2225551350

Kathy

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,  
Jennifer Nobui

---

**From:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Sent:** Wednesday, October 12, 2022 8:32 AM  
**To:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>  
**Subject:** Fw: [EXTERNAL] Notification of confirmation sampling, nAPP2225551350

---

**From:** Kathy Purvis <[kathy@etechenv.com](mailto:kathy@etechenv.com)>  
**Sent:** Monday, October 10, 2022 8:13 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>; [ocd.environmental@state.nm.us](mailto:ocd.environmental@state.nm.us) <[ocd.environmental@state.nm.us](mailto:ocd.environmental@state.nm.us)>  
**Cc:** Joel Lowry <[joel@etechenv.com](mailto:joel@etechenv.com)>  
**Subject:** [EXTERNAL] Notification of confirmation sampling, nAPP2225551350

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

This email serves as notice that Etech intends to collect excavation confirmation soil samples from the following location/reportable release site:

Goodnight Midstream – Blueberry SWD H-Pump Discharge– nAPP2225551350

If you have any questions or need any additional information, please contact Kathy Purvis by phone (432-967-9624) or email ([kathy@etechenv.com](mailto:kathy@etechenv.com)).

Kathy Purvis, Project Manager  
(432) 967-9624



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

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

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

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

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

CONDITIONS

Action 165843

CONDITIONS

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 165843
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	1/9/2023