

Remediation Summary & Soil Closure Request

3R Operating, LLC Shell State 4 Flowline

Lea County, New Mexico

Unit Letter B, Section 18, Township 11 South, Range 33 East

Latitude 33.370642 North, Longitude 103.651417 West

NMOCD Reference No. nAPP2301367245, nPAC0715030512 & nPAC0600429640

Prepared By:

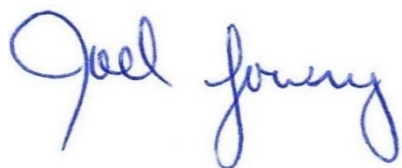
Etech Environmental & Safety Solutions, Inc.

2617 W. Marland

Hobbs, New Mexico 88240



Ben Arguijo



Joel W. Lowry



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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of 3R Operating, LLC (3R) has prepared this *Remediation Summary & Soil Closure Request* for the release sites known as the Shell State 4 Flowline, the Shell State #003 Flowline and the Shell State #003 (henceforth, "Site"). Each of the releases occurred in the same vicinity and appeared to have commingled with one another. Details of the releases are summarized below:

Location of Release Source

Latitude: 33.370642 Longitude: -103.651417

Provided GPS are in WGS84 format.

Site Name: Shell State 4 Flowline (nAPP230167245)	Site Type: Flowline
Date Release Discovered: 1/12/2023	API # (if applicable): 30-025-23190

Unit Letter	Section	Township	Range	County
B	18	11S	33E	Lea

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

Nature and Volume of Release

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 20	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 25	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

The release was attributed to the failure of a flowline.

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.

Location of Release Source

Latitude: 33.371376 Longitude: -103.65555
Provided GPS are in format.

Site Name: <u>Shell State #003 (nPAC0600429640)</u>	Site Type: <u>Flowline</u>
Date Release Discovered: <u>12/25/2005</u>	API # (if applicable): <u>30-025-23014</u>

Unit Letter	Section	Township	Range	County
C	18	11S	33E	Lea

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

Nature and Volume of Release

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) <u>4</u>	Volume Recovered (bbls) <u>0</u>
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>4</u>	Volume Recovered (bbls) <u>0</u>
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

A flowline carrying produced oil and water from the Shell State #3 well to the tank battery ruptured, resulting in the release of approximately 8 barrels of produced fluid. The affected area covered 30' x 50'. The contaminated material was removed to a depth of 4" bgs and was shipped to an aerated landfarm.

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.

Location of Release Source

Latitude: 33.37137 Longitude: -103.65555
Provided GPS are in format.

Site Name: Shell State #003 (nPAC0715030512)	Site Type: Flowline
Date Release Discovered: 10/21/2006	API # (if applicable): 30-025-23014

Unit Letter	Section	Township	Range	County
C	18	11S	33E	Lea

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

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 10	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered
Cause of Release: Failure of a flowline.		

Initial Response

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

Previously submitted portions of the Release Notification and Correction Action (Form C-141) are available in the New Mexico Oil Conservation Division (NMOCD) Permitting System. Copies of the Initial Form C-141s, along with additional regulatory correspondence, are provided in Appendix E.

2.0 SITE CHARACTERIZATION

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 51 and 75 (ft.)
What method was used to determine the depth to groundwater?	NM OSE iWaters Database Search
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	
A continuously flowing watercourse or any other significant watercourse?	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution or church?	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring?	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	Greater than 5 (mi.)
A wetland?	Greater than 5 (mi.)
A subsurface mine?	Greater than 5 (mi.)
A (non-karst) unstable area?	Greater than 5 (mi.)
Categorize the risk of this well/site being in a karst geology.	Low
A 100-year floodplain?	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Site are as follows:

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

* Measured in milligrams per kilogram (mg/kg)

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

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

4.0 BACKGROUND INFORMATION

Beginning January 21, 2023, an alternative environmental contractor conducted limited remediation activities at the Site. The affected area was excavated to an approximate depth of four (4) ft. bgs. Upon excavating impacted material from within the release margins, five (5) confirmation soil samples (SP1 @ 3' through SP5 @ 3') were collected from the base of the excavated area, along with four (4) sidewall soil samples (East Wall, North Wall, South Wall and West Wall). The collected soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of chloride concentrations, which were determined to be below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples, with the exception of soil sample SP 5 @ 3', which exhibited a chloride concentration of 656 mg/kg. A "Site and Sample Location Map" is provided as Figure 3. A "Soil Chemistry Table" is provided as Table 1. Field data is provided as Appendix B. Laboratory analytical reports are provided in Appendix C.

On November 15, 2023, a second environmental contractor visited the Site in an effort to characterize BTEX and TPH concentrations remaining in-situ. During the site visit, a total of twenty (20) soil samples (SP1 through SP20) were collected and submitted to the laboratory for analysis of BTEX and TPH concentrations. Laboratory analytical results indicated BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of soil sample SP1 @ 0.5', which exhibited a TPH concentration of 163 mg/kg; SP6 @ 4', which exhibited a TPH concentration of 4,030 mg/kg; and soil sample SP9, which exhibited a GRO + DRO concentration of 1,040 mg/kg. The excavation was advanced in the areas characterized by soil samples SP1, SP6 and SP9. A "Photographic Log" is provided as Appendix D.

On November 19, 2024, the Site was revisited in an effort to determine if additional excavation in the areas characterized by soil samples SP1, SP6 and SP9 was effective in removing impacted material affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standards. During the site visit, thirty (30) additional soil samples (SW1 through SW5 and SP1 through SP25) were collected from the affected area and submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX and TPH concentrations were below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standards in each of the submitted soil samples, with the exception of soil samples SW3, SW4, SW5 and SP24, which exhibited TPH concentrations of 159 mg/kg, 568 mg/kg, 718 mg/kg, and 172 mg/kg, respectively. Analytical results indicated chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples, with the exception of soil samples SW2, SW3, SW4, SW5 and SP24, which exhibited chloride concentrations of 1,030 mg/kg; 2,430 mg/kg; 3,400 mg/kg; 1,710 mg/kg; and 13,700 mg/kg, respectively.

On or around December 9, 2024, a *Remediation Closure Report* containing laboratory analytical results and remediation details for a separate, non-reportable release on the subject flowline was inadvertently submitted under incident number nAPP2301367245. Careful review of environmental records suggests it was largely an administrative error and that there was no overlap or duplication of data. A second report containing accurate information was prepared but not submitted due to other potential deficiencies.

On December 18, 2024, Etech assumed remediation and technical oversight at the Site. Upon assuming remediation oversight, areas previously disturbed by remediation activities, along with those anticipated to be disturbed, were surveyed by an New Mexico State Land Office (NMSLO) -approved archaeologist, as necessary. A copy of the "NMSLO Cultural Resources Cover Sheet" for the negative finding report is provided in Appendix F. In addition, previous and anticipated remediation activities were assessed for their potential to interfere with threatened or endangered wildlife. Based on site conditions and the location of the release, remediation activities were not anticipated to interfere with threatened or endangered wildlife. A special species or critical habitat report is provided as Appendix G.

On February 12, 2025, representatives of the NMOCD, NMSLO, 3R, and Etech met to discuss the Site. During the meeting, existing data and field activities conducted to date were discussed, along with future remediation activities that would be required to bring the Site into regulatory compliance.

5.0 PROPOSED REMEDIATION PLAN

On February 12, 2025, representatives of the NMOCD, NMSLO, 3R, and Etech met to discuss the Site. During the meeting, existing data and field activities conducted to date were discussed, along with future remediation activities that would be required to bring the Site into regulatory compliance.

On February 27, 2025, 3R submitted a *Site Assessment Report, Alternative Sampling Plan & Proposed Remediation Workplan* (henceforth, "*Workplan*") to the NMOCD and NMSLO that detailed site assessment and remediation activities conducted by the previous operator and proposed additional remediation activities designed to bring the Site into regulatory compliance.

On March 5, 2025, the *Workplan* was approved with the condition that excavation confirmation soil samples collected by the previous environmental contractor cannot be utilized for closure and must be replaced.

6.0 REMEDIATION ACTIVITIES SUMMARY

Requesting a remediation plan approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
On what estimated date will (or did) the remediation commence?	3/13/2025	
On what date will (or did) the final sampling or liner inspection occur?	3/21/2025	
On what date will (or was) the remediation complete(d)?	3/27/2025	
What is the total surface area (sq. ft.) in need of or that will <i>eventually</i> be reclaimed?	25,200	
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	2,560	
What was the total surface area (sq. ft.) that has or will be remediated?	25,200	
What was the total volume (cy) that has or will be remediated?	2,560	
This remediation utilized the following processes to remediate/reduce contaminants: (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes/Fertilizer, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	Gandy Marley Inc.	
NMOCD Disposal Facility ID?	fEEM0112338393	
Summarize any additional remediation activities not included by answers above.	See below	

On March 13, 2025, upon conducting an archeological survey, remediation activities resumed at the Site. In accordance with the approved *Workplan*, impacted material affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards left in-situ by the previous environmental contractor was excavated, temporarily stockpiled on location, then transported to an NMOCD-permitted surface waste facility for disposal. The floor and sidewalls of the excavations 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. In accordance with the approved *Workplan*, excavation confirmation soil samples were collected representing every 400 square feet and submitted for laboratory analysis. A summary of soil sampling information is provided on the following page:

Constituent	Highest Observable Concentration	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	2,640	RF 19 @4'	3/21/2025	4	In-Situ
TPH	92.0	FL 14 @ 1'	3/19/2025	1	In-Situ
GRO+DRO	61.7	FL 6 @ 1'	3/19/2025	1	In-Situ
BTEX	<0.300	All submitted samples	3/19 - 3/21/2025	1 - 4	In-Situ
Benzene	<0.050	All submitted samples	5/13 - 5/15/2024	1 - 4	In-Situ

Please reference Table 1 for additional information.

Beginning March 19, 2025, Etech collected 45 excavation confirmation soil samples from the floor and sidewalls of the recently excavated areas. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. 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.

In addition, Etech collected 35 replacement floor composite samples from the area previously remediated by an alternative environmental contractor. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. 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.

During the course of remediation activities, two (2) historical releases (nPAC0715030512 and nPAC0600429640) from the previous operator on the flowlines toward the east and west of the subject release. Upon being informed of these open incidents, the NMOCD was notified, and a variance request was submitted to allow for an exception to the 48-hour sampling notification requirement as the releases were adjacent to and/or commingled with the subject release and were already being remediated in accordance with the approved *Workplan*. The variance request was subsequently approved by the NMOCD.

The final dimensions of the excavated area were approximately 390 feet in length, 110 to 30 feet in width, and one (1) to four (4) feet in depth. During the course of remediation activities, Etech transported approximately 840 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal.

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 Site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

7.0 SOIL CLOSURE REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
What was the total surface area (sq. ft.) remediated?	25,200	
What was the total volume (cy) remediated?	2,560	

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends 3R provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request remediation closure approval be granted

8.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a reclamation approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a restoration complete approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
What was the total surface area (in square feet) reclaimed?	25,200	
What was the total volume (in cubic yards) reclaimed?	2,560	

Upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, non-impacted "like" material characterized by soil sample Pearce Trust Stockpile. Excavation backfill was placed at or near original relative positions and the affected areas were contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

On April 23, 2025, in accordance with NMOCD and NMSLO requirements, areas affected by remediation and reclamation activities were reseeded with a certified weed-free State Coarse seed mix. The seed was installed to coincide with a rain event utilizing a disk, broadcast seeder, and harrow. The Site will monitored for vegetative growth and noxious weeds at least annually. Upon meeting a total percent plant cover of at least 70 percent that reflects a life-form ratio of plus or minus 50 percent of pre-disturbance levels, a *Revegetation Report* will be prepared and submitted to the NMSLO and NMOCD.

9.0 LIMITATIONS

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

This report has been prepared for the benefit of 3R Operating, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or 3R Operating, LLC.

10.0 DISTRIBUTION

3R Operating, LLC

20405 State Highway 249

Ste 820

Houston, TX 77070

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

1220 South St. Francis Drive

Santa Fe, NM 87505

New Mexico State Land Office

Environmental Compliance Office

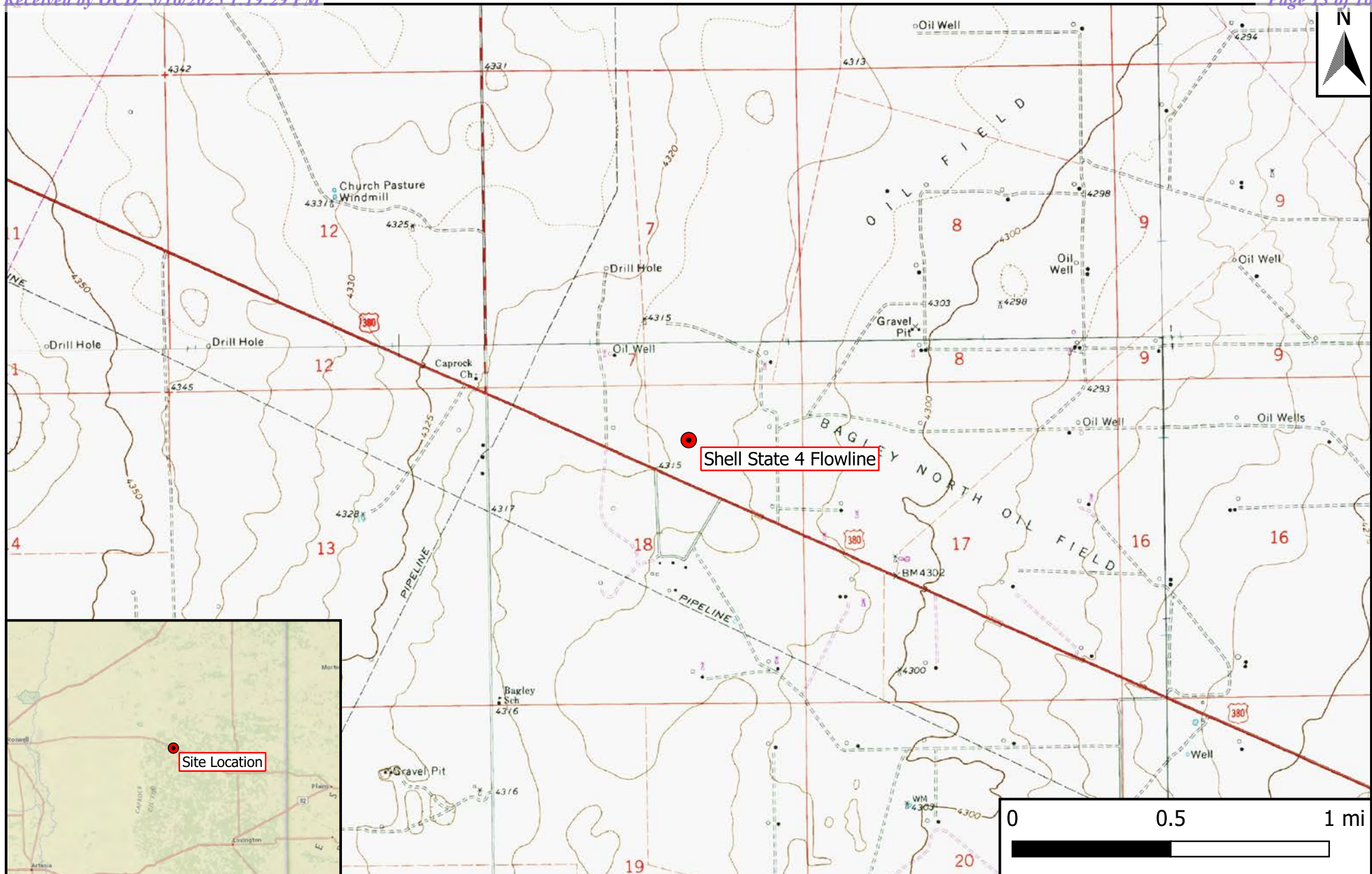
310 Old Santa Fe Trail

Santa Fe, NM 87501

(Electronic Submission)

Figure 1

Site Location Map



Legend

- Site Location

Figure 1
 Site Location Map
 3 R Operating
 Shell State 4 Flowline
 GPS: 33.370642, -103.651417
 Lea County, New Mexico



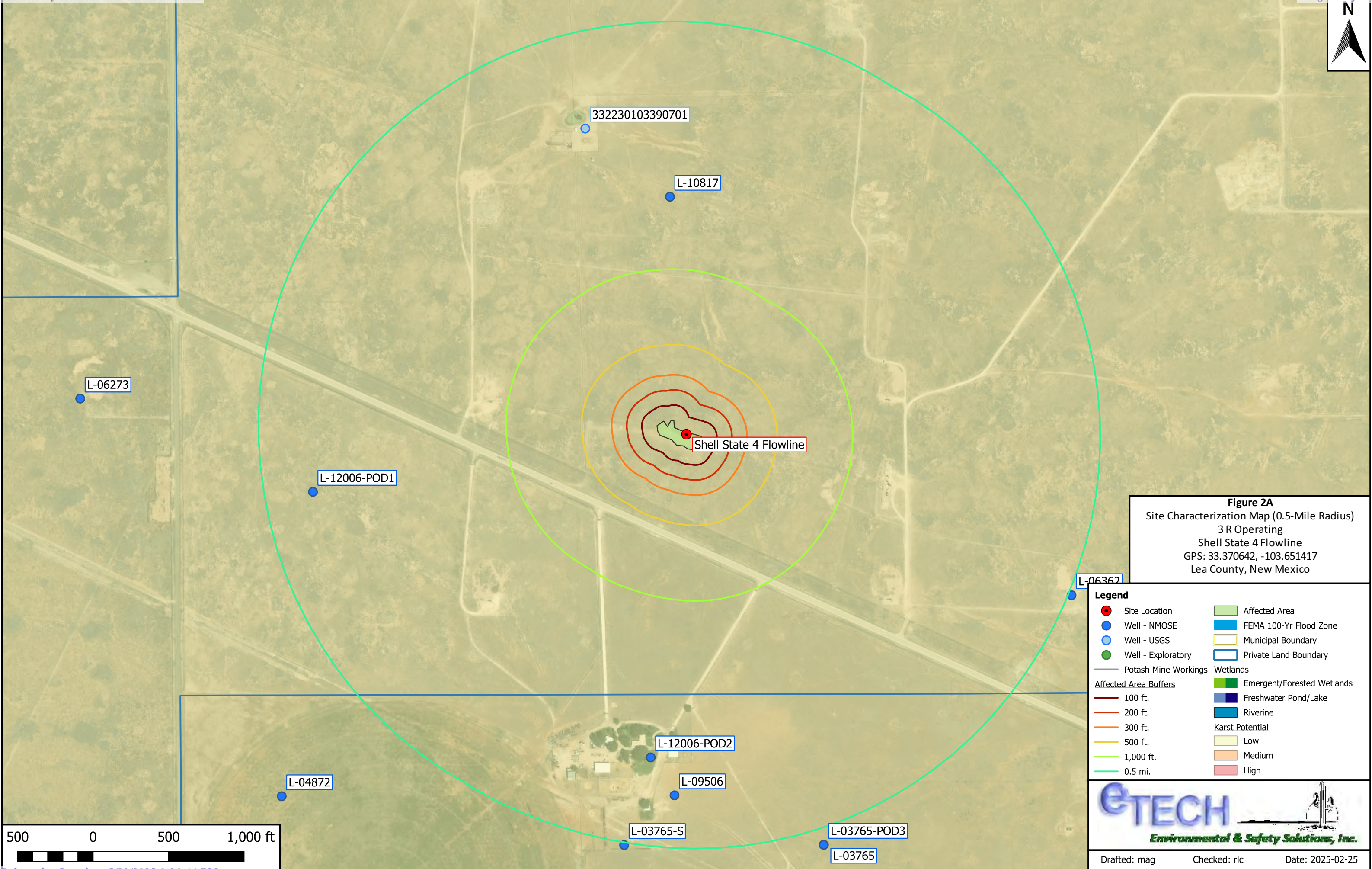
Drafted: mag

Checked: rlc

Date: 2025-02-25

Figures 2A & 2B

Site Characterization Maps



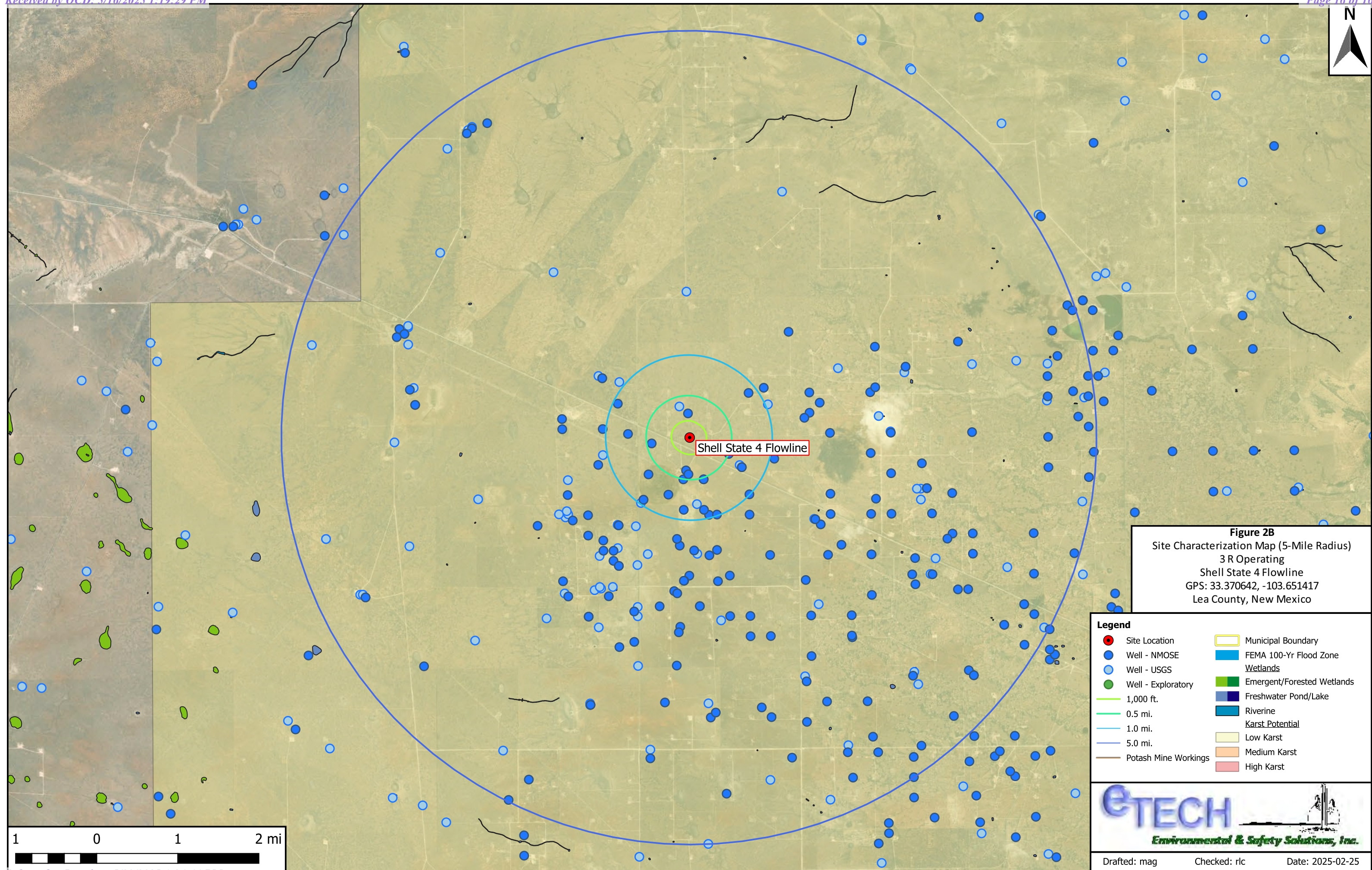


Figure 3

Sample Location Map



Legend:

- SW1 Composite Sample Location
- Excavated Area

Figure 3
 Site and Sample Location Map
 3R Operating
 Shell State 4 Flowline
 GPS: 33.370642, -103.651417
 Lea County



Drafted: rr Checked: jwl Date: 4/15/25

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil 3 R Operating Shell State 4 Flowline NMOCD Ref. #: NAPP2301367245, nPAC0715030512, nPAC0600429640											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL 1 @ 2'	3/19/2025	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 2 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	30.8	30.8	11.8	42.6	32.0
FL 3 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	27.2	27.2	<10.0	27.2	480
FL 4 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 5 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 6 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	61.7	61.7	28.2	89.9	112
FL 7 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 8 @ 4'	3/19/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FL 9 @ 4'	3/19/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 10 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	13.6	13.6	<10.0	13.6	272
FL 11 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 12 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 13 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	24.9	24.9	<10.0	24.9	544
FL 14 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	61.2	61.2	30.8	92.0	96.0
FL 15 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	16.1	16.1	<10.0	16.1	96.0
FL 16 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	11.5	11.5	<10.0	11.5	304
FL 17 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	10.5	10.5	<10.0	10.5	304
FL 18 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 19 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 20 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 21 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 22 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 23 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 24 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 25 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 26 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 27 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 28 @ 1'	3/19/2025	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
RF - 1	3/19/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
RF - 2	3/19/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
RF - 3	3/19/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
RF - 4	3/19/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
RF - 5	3/19/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
RF 6 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	50.5	50.5	25.4	75.9	1,380
RF 7 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	48.2	48.2	22.0	70.2	1,230
RF 8 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
RF 9 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
RF 10 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,040
RF 11 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,400
RF 12 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,250
RF 13 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	20.9	20.9	<10.0	20.9	1,120

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Table 1 Concentrations of BTEX, TPH, and Chloride in Soil 3 R Operating Shell State 4 Flowline NMOCD Ref. #: NAPP2301367245, nPAC0715030512, nPAC0600429640											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	10,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
RF 14 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,200
RF 15 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,920
RF 16 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
RF 17 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	832
RF 18 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	816
RF 19 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	17.6	17.6	<10.0	17.6	2,640
RF 20 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
RF 21 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
RF 22 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
RF 23 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
RF 24 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	736
RF 25 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
RF 26 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,580
RF 27 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
RF 28 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
RF 29 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	752
RF 30 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
RF 31 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
RF 32 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
RF 33 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
RF 34 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
RF 35 @ 4'	3/21/2025	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,240
EW - 1	3/19/2025	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
EW - 2	3/19/2025	0-4	In-Situ	<0.050	<0.300	<10.0	26.1	26.1	<10.0	26.1	352
EW - 3	3/19/2025	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
NW - 1	3/19/2025	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NW - 2	3/19/2025	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
NW - 3	3/19/2025	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NW - 4	3/19/2025	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	464
NW - 5	3/21/2025	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
NW - 6	3/21/2025	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
SW - 1	3/19/2025	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW - 2	3/19/2025	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
SW - 3	3/19/2025	0-4	In-Situ	<0.050	<0.300	<10.0	12.4	12.4	<10.0	12.4	352
SW - 4	3/19/2025	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
SW - 5	3/19/2025	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
SW - 6	3/21/2025	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
WW - 1	3/19/2025	0-1	In-Situ	<0.050	<0.300	<10.0	11.9	11.9	<10.0	11.9	32.0
WW - 2	3/19/2025	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
Pearce Trust Stockpile	3/28/2025	N/A	Backfill	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0

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

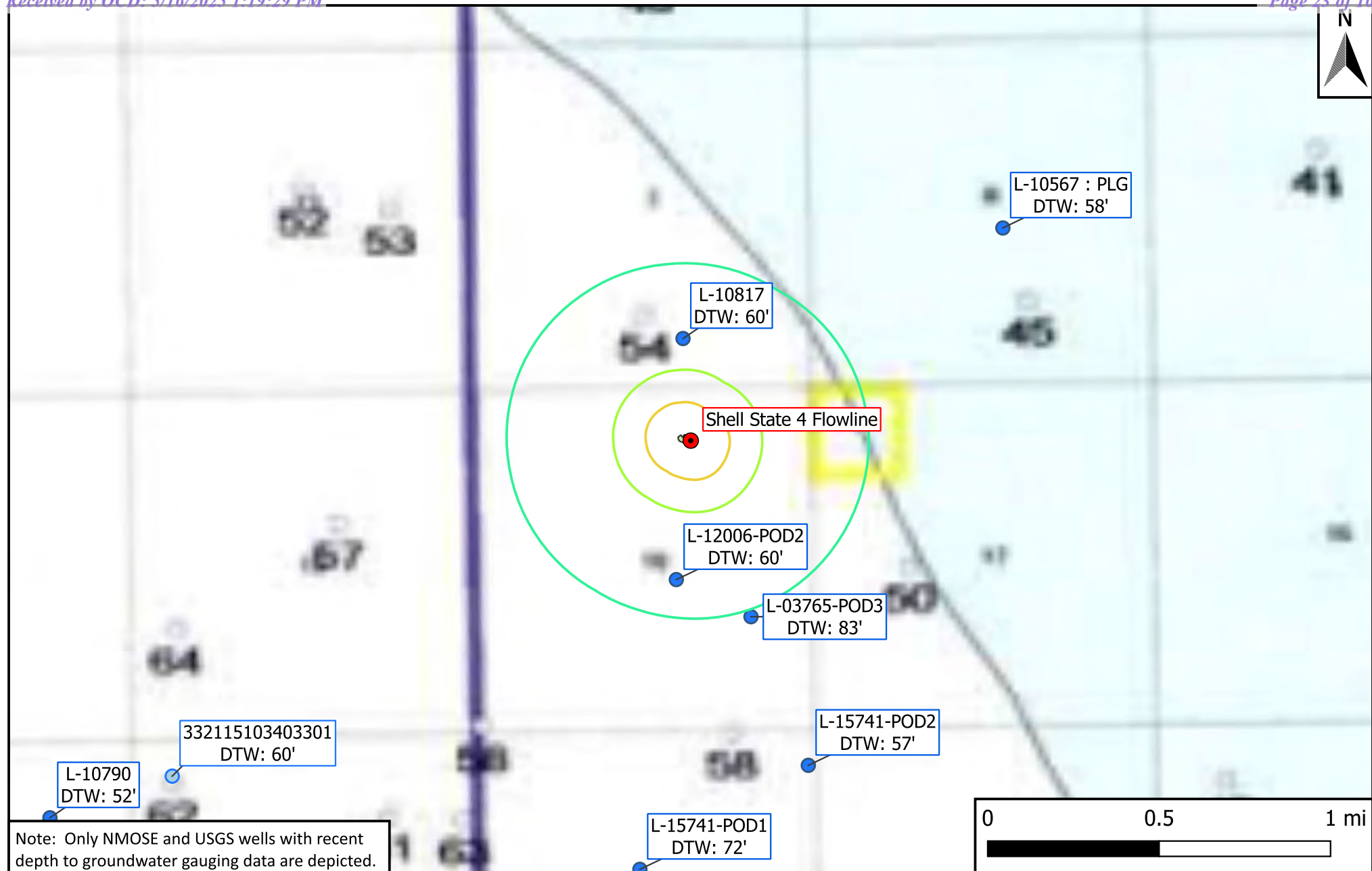
Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Appendix A

Depth to Groundwater Information



Legend

- | | |
|-------------------------|-----------------|
| ● Active Site Locations | ■ Affected Area |
| ● Well - NMOSE | — 500 ft. |
| ● Well - USGS | — 1,000 ft. |
| ● Well - Exploratory | — 0.5 mi. |

Figure 4
Inferred Depth to Groundwater Map
3 R Operating
Shell State 4 Flowline
GPS: 33.370642, -103.651417
Lea County, New Mexico



Drafted: mag


Checked: rlc

Date: 2025-02-25

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 Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	L 10817		SW	SE	07	11S	33E	625418.0	3693669.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	421	Driller Company:	GLENN'S WATER WELL SERVICE
Driller Name:	GLENN, CLARK A."CORKY" (LD)		
Drill Start Date:	1998-06-05	Drill Finish Date:	1998-06-05
Log File Date:	1998-06-17	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:	40
Casing Size:	5.50	Depth Well:	125
		Depth Water:	60

Water Bearing Stratifications:

Top	Bottom	Description
65	122	Other/Unknown

Casing Perforations:

Top	Bottom
65	125

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.

STATE ENGINEER OFFICE

WELL RECORD

Revised June 1972

Section 1. GENERAL INFORMATION

148170

(A) Owner of well Pearce Ranch Owner's Well No. _____

Street or Post Office Address West Star Box 52

City and State Tatum, New Mexico 88267

Well was drilled under Permit No. #1-10,817 and is located in the:

a. _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 7 Township 11-S. Range 33-E. N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____

Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor Glenn's Wager Well Service License No. WD-421

Address P.O. Box 692 Tatum, New Mexico 88267

Drilling Began 6/5/98 Completed 6/5/98 Type tools rotary Size of hole 9 7/8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 125 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 60 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
65	122	57	Sand	40 GPM

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
5 $\frac{1}{2}$ "	.250	T&C			125	none	65	125

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____

Address _____

Plugging Method _____

Date Well Plugged _____

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

Date Received 06/17/98

FOR USE OF STATE ENGINEER ONLY

507088

Quad _____ FWL _____ FSL _____

File No. L-10,817 Use Stock Location No. 11.33.7.4330

[illegible]

Section 7. REMARKS AND ADDITIONAL INFORMATION

98 JUN 17 AM 10 23

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Corley Henry
Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

June 15 '98
Revised June 1972

Section 1. GENERAL INFORMATION

(A) Owner of well Pearce Ranch Owner's Well No. _____
Street or Post Office Address West Star Box 52
City and State Tatum, New Mexico 88267

Well was drilled under Permit No. #1-10,817 and is located in the:
a. _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 7 Township 11-S. Range 33-E. N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Glenn's Wafer Well Service License No. WD-421
Address P.O. Box 692 Tatum, New Mexico 88267
Drilling Began 6/5/98 Completed 6/5/98 Type tools rotary Size of hole 9 7/8 in.
Elevation of land surface or _____ at well is _____ ft. Total depth of well 125 ft.
Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 60 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
65	122	57	Sand	40 GPM

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
5 1/2"	.250	T&C			125	none	65	125

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 11/7/00 Quad _____ FWL _____ FSL _____
Released to Imaging: 5/23/2025 1:36:44 PM Use STK Location No. 11.33.7.43

Section 7. REMARKS AND ADDITIONAL INFORMATION


Cosky Blum
Driller

Released to Imaging: 5/23/2025 1:36:44 PM

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 Nbr	Q64	Q16	Q4	Sec	TwS	Rng	X	Y	Map
	L 12006 POD2	SE	NW	NW	18	11S	33E	625386.5	3692537.3	

* UTM location was derived from PLSS - see Help

Driller License:	421	Driller Company:	GLENN'S WATER WELL SERVICE		
Driller Name:	CORKY GLENN				
Drill Start Date:	2008-08-27	Drill Finish Date:	2008-08-27	Plug Date:	
Log File Date:	2008-09-04	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	6.63	Depth Well:	155	Depth Water:	60

Casing Perforations:

Top	Bottom
60	152

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.

9/3/08

OSE FILE NUMBER _____

For OSE Use Only

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD and DRILLING LOG

1. PERMIT HOLDER(S)

Name: PEARCE TRUST

Name: _____

Address: 1717 JACKSON

Address: _____

City: PECOS

City: _____

State: TX Zip: 79772

State: _____ Zip: _____

Phone: _____

Phone: _____

Contact: _____

Contact Phone: _____

2. STATE ENGINEER REFERENCE NUMBERS:

File # L-12006, Well # 1

3. LOCATION OF WELL (The Datum Is Assumed To Be WGS 84 Unless Otherwise Specified)

Latitude: N 33° Deg 21 Min 53.16 Sec

Longitude: W 103° Deg 39 Min 8.05 Sec

(Enter Lat/Long To At Least 1/10th Of A Second)

Datum If Not WGS 84: SE 1/4 NW 1/4 SEC. 18, T11-S, R33-EAST

4. DRILLING CONTRACTOR

License Number: WD 421

Name: GLENN'S WATER WELL SERVICE, Work Phone: 505-398-2424

Drill Rig Serial Number: 0582

List The Name Of Each Drill Rig Supervisor That Managed On-Site Operations During The Drilling Process:

CORKY GLENN

5. DRILLING RECORD

Drilling Began: 8/27/08; Completed: 8/27/08; Drilling Method: ROTARY MUD

Diameter Of Bore Hole: _____ (in);

Total Depth Of Well: 155 (ft);

Completed Well Is (Circle One) Shallow Artesian;

Depth To Water First Encountered: 60' (ft);

Depth To Water Upon Completion Of Well: 60' (ft).

Do Not Write Below This Line

TRN Number: 485546

File Number: L-12206

Form: wr-20 May 07

L-12006

page 1 of 4

CLW

12

STATE ENGINEER OFFICE
ROSWELL, NEW MEXICO

2008 SEP -4 P 12:01

OSE FILE NUMBER _____
For OSE Use Only

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD and DRILLING LOG

6. RECORD OF CASING

Diameter (inches)	Pounds (per ft.)	Threads (per inch)	Depth (feet)	Length Top to Bottom (feet)	Type of Shoe	Perforations (from to)
10 3/4	1/4 WELL	PE		21	NONE	NONE
6 5/8	.188	PE		152	NONE	60-152

RECORD OF MUDDING AND CEMENTING

Depth (feet)	Hole (diameter)	Mud Used (# of sacks)	Cement (cubic feet)	Method of Placement
0-21	14 3/4		14 SACKS	POUR

Do Not Write Below This Line

Trn Number: _____
Form: wr-20 May 07

File Number: _____

page 2 of 4

For OSE Use Only

8. LOG OF HOLE. For Each Water Bearing Strata, Estimate The Yield Of The Formation In Gallons Per Minute.

[illegible]

Do Not Write Below This Line

File Number:

OSE FILE NUMBER _____

For OSE Use Only

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

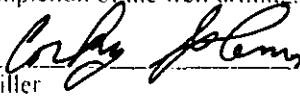
9. ADDITIONAL STATEMENTS OR EXPLANATIONS:

DRILLED 14 3/4" HOLE TO 21' AND SET 21' OF 10 3/4"
CASING AND CEMENTED TO TOP OF WELL

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
WELL RECORD

The undersigned hereby certifies that, to the best of his or her knowledge and belief, the foregoing is a true and correct record of the above described bore hole. The undersigned further certifies that he or she will file this well record with the Office Of The State Engineer and permit holder within 20 days after completion of the well drilling.

Driller

9/3/08
(mm/dd/year)

Do Not Write Below This Line

Trn Number: _____

Form wr-20 May 07

page 4 of 4

File Number: _____

Appendix B

Field Data



209
243

Sample Log

Date: _____

Project: _____
Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
N11-1	-	N/D	FL-2601' 228
F1-102'	-	N/D	FL-2701' 116
FL-201'	-	N/D	FL-2801' 192
N11-1	-	N/D	
FL-301'	-	228	TT-104' 5.9
F1-401'	-	N/D	TT-2 '' 5.8
F1-501'	-	N/D	TT-3 '' 4.6
FL-601'	-	N/D	TT-4 '' 4.6
F1-701'	-	196	TT-5 '' 5.4
FL-801'	-	1916	TT-6 '' 3.0
F1-901'	-	904	TT-7 '' 3.6
FL-1001'	-	296	TT-8 '' 4.8
FL-1101'	-	228	TT-9 '' 4.6
F1-1201'	-	N/D	TT-10 '' 10.0
F1-1301'	-	228	TT-11 '' 5.6
FL-1401'	-	296	TT-12 '' 4.4
FL-1501'	-	296	TT-13 '' 5.0
	-	1049	TT-14 '' 5.0
N11-2	-	368	TT-15 '' 6.4
G11-1	-	N/D	TT-16 '' 6.6
N11-3	-	116	TT-17 '' 5.2
S11-1	-	N/D	TT-18 '' 5.0
SW-2	-	116	TT-19 '' 6.2
SW-3	-	191	TT-20 '' 6.4
SW-4	-	260	TT-21 '' 6.0
FW-2	-	260	TT-22 '' 5.8
FL-1601'	-	296	TT-23 '' 3.6
FL-1701'	-	768	TT-24 '' 4.4
FL-1801'	-	412	TT-25 '' 4.8
F1-1901'	-	228	TT-26 '' 5.6
FL-2001'	-	412	TT-27 '' 4.6
FL-2102'	-	368	TT-28 '' 5.0
F1-2201'	-	296	TT-29 '' 4.8
FL-2301'	-	228	TT-30 '' 5.8
FL-2401'	-	332	TT-31 '' 5.4
FL-2501'	-	332	TT-32 '' 4.8

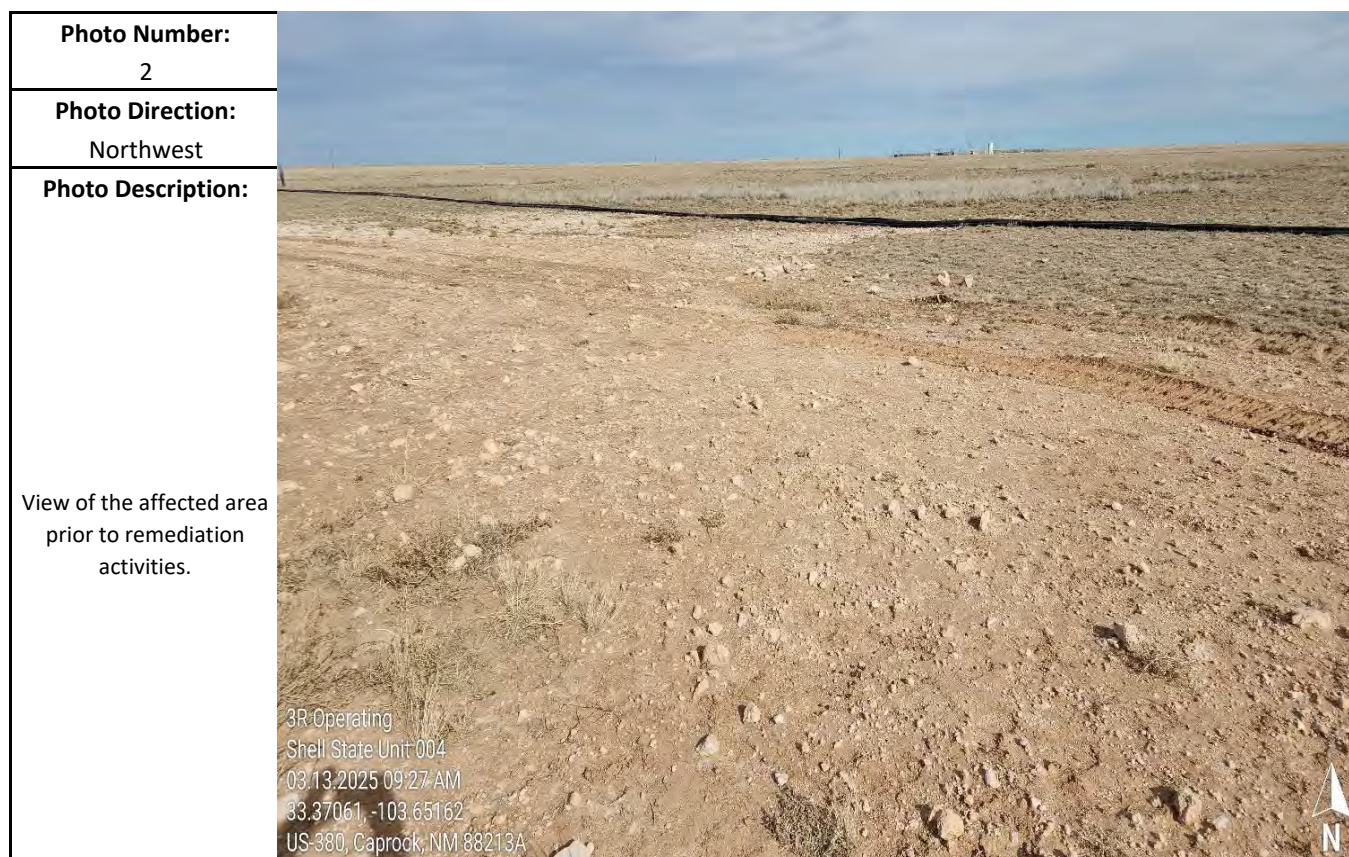
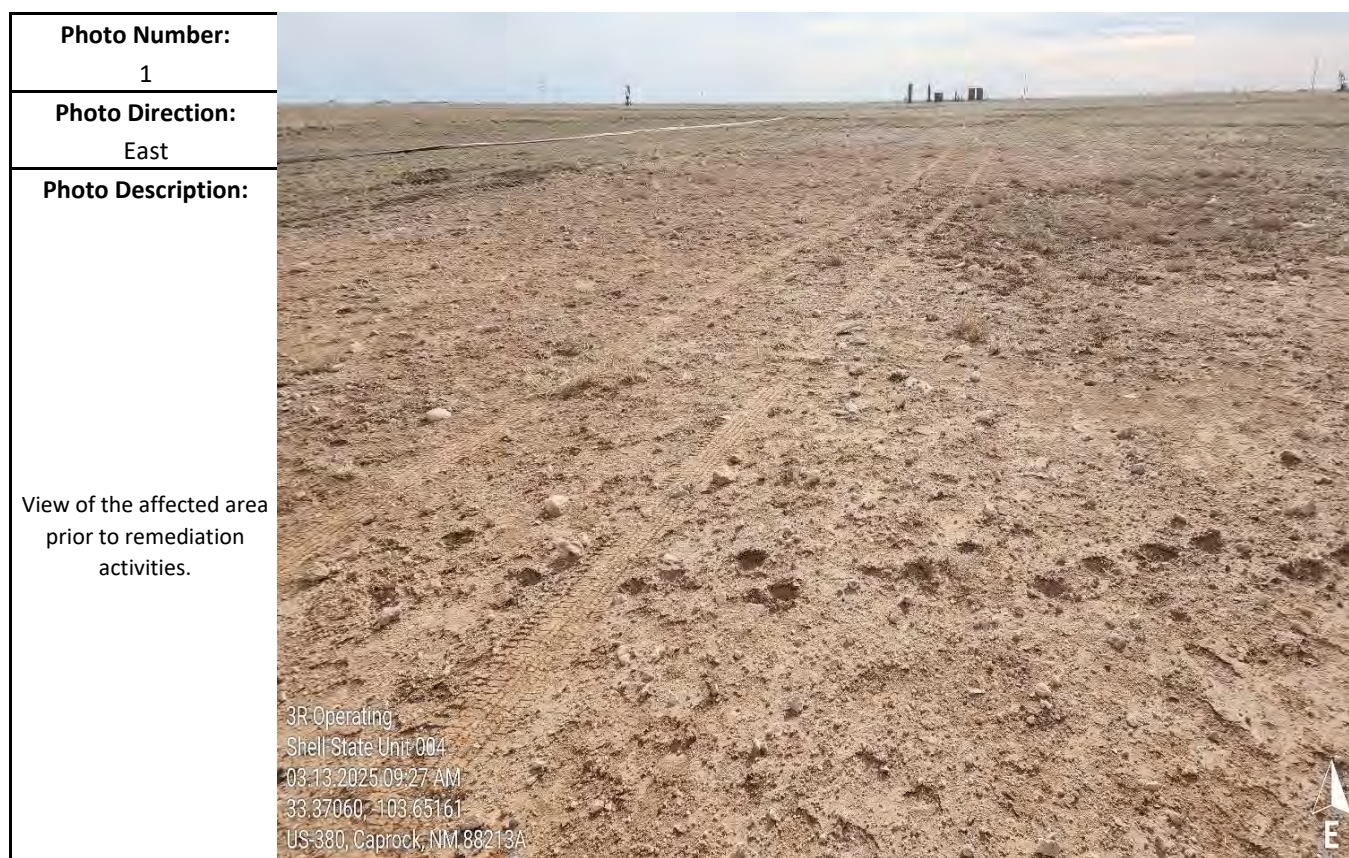
Sample Point = SP #1 @ ## etc Test Trench = TT #1 @ ## Resamples = SP #1 @ 5b or SW #1b
Floor = FL #1 etc Refusal = SP #1 @ 4'-R Stockpile = Stockpile #1
Sidewall = SW #1 etc Soil Intended to be Deferred = SP #1 @ 4' In-Situ GPS Sample Points, Center of Comp Areas

TT-33 @ 4' - 3.8
TT-34 @ 4' - 4.6
TT-35 @ 4' - 4.6

Appendix C

Photographic Log

Photographic Log



Photographic Log



Photo Number: 3	  <p>Mar 21, 2025 at 3:19:31 PM +33.370591,-103.651932 43° NE Altitude:1315.9meter Speed:0.0km/h</p>
Photo Direction: South	
Photo Description: View of portion of the excavated area.	

Photo Number: 4	  <p>Mar 21, 2025 at 3:19:37 PM +33.370667,-103.651995 100° E Altitude:1316.4meter Speed:0.0km/h</p>
Photo Direction: East	
Photo Description: View of portion of the excavated area.	

Photographic Log



Photo Number: 5	 <div>Mar 21, 2025 at 3:17:35 PM +33.370306,-103.651177 151° SE Altitude:1318.6meter Speed:1.9km/h</div> 
Photo Direction: Southeast	
Photo Description: View of portion of the excavated area.	

Photo Number: 6	<div>3/27/25, 2:04 PM +33.370485,-103.651812 NM,Tatum</div> 
Photo Direction: East	
Photo Description: View of affected area after remediation activities.	

Photographic Log



Photo Number: 7	<div>Network time is not synchronized Local: Apr 23, 2025 at 10:32:21 AM MDT N 33° 22' 14.424", W 103° 39' 8.266" Tatum NM 88267 United States</div> 
Photo Direction: Southeast	
Photo Description: View of portion of the excavated area.	

Photo Number: 8	<div>Network: Apr 23, 2025 at 10:34:04 AM MDT Local: Apr 23, 2025 at 10:34:04 AM MDT N 33° 22' 14.160", W 103° 39' 7.692" Tatum NM 88267 United States</div> 
Photo Direction: East	
Photo Description: View of affected area after remediation activities.	

Photographic Log

Photo Number:

9

Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347

(800) 262-9892

Permit # TX00905

**Shell State 4 Flowline; NMSLO Coarse Sites Seed
Mix broadcast rate**

Lot/Sales # 50-85414

Kind & Variety	Pure Seed	Germ	Dormant	Hard Seed	Origin
Bluestem, Little "Cimarron" (Schizachyrium scoparium)	8.37%	96.00%	2.00%	0.00%	TX
Bluestem, Sand "Chet" (Andropogon hallii)	11.04%	94.00%	5.00%	0.00%	TX
Bristlegrass Plains, (Setaria vulpiseta)	4.36%	38.00%	56.00%	0.00%	TX
Clover, Purple prairie, "Kaneb" (Dalea purpurea)	18.64%	88.00%	0.00%	0.00%	TX
Dropseed, Sand (Sporobolus cryptandrus)	5.63%	27.00%	70.00%	0.00%	TX
Gramma, Blue "Lovington" (Bouteloua gracilis)	8.45%	97.00%	0.00%	0.00%	TX
Gramma, Sideoats "Vaughn" (Bouteloua curtipendula)	11.62%	22.00%	72.00%	0.00%	TX

Appendix D

Laboratory Analytical Reports



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

March 25, 2025

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SHELL STATE 4 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 03/20/25 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1 (H251658-01)

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	03/22/2025	ND	1.92	96.1	2.00	10.8		
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44		
Total BTEx	<0.300	0.300	03/22/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/24/2025	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	03/21/2025	ND	198	98.8	200	0.389	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.6	200	0.593	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 2 (H251658-02)

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	03/22/2025	ND	1.92	96.1	2.00	10.8		
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44		
Total BTEX	<0.300	0.300	03/22/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/24/2025	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	03/21/2025	ND	198	98.8	200	0.389	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.6	200	0.593	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.9 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 3 (H251658-03)

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	03/22/2025	ND	1.92	96.1	2.00	10.8	
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44	
Total BTEx	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/24/2025	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	03/21/2025	ND	198	98.8	200	0.389	
DRO >C10-C28*	12.4	10.0	03/21/2025	ND	189	94.6	200	0.593	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.3 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 4 (H251658-04)

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	03/22/2025	ND	1.92	96.1	2.00	10.8	
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44	
Total BTEx	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/24/2025	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	03/21/2025	ND	198	98.8	200	0.389	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.6	200	0.593	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 5 (H251658-05)

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	03/22/2025	ND	1.92	96.1	2.00	10.8	
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44	
Total BTEx	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	03/24/2025	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	03/21/2025	ND	198	98.8	200	0.389	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.6	200	0.593	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW - 1 (H251658-06)

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	03/22/2025	ND	1.92	96.1	2.00	10.8	
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44	
Total BTEx	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/24/2025	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	03/21/2025	ND	198	98.8	200	0.389	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.6	200	0.593	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 93.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.2 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW - 2 (H251658-07)

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	03/22/2025	ND	1.92	96.1	2.00	10.8		
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44		
Total BTEx	<0.300	0.300	03/22/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/24/2025	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	03/21/2025	ND	198	98.8	200	0.389	
DRO >C10-C28*	26.1	10.0	03/21/2025	ND	189	94.6	200	0.593	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 97.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW - 3 (H251658-08)

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	03/22/2025	ND	1.92	96.1	2.00	10.8	
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44	
Total BTEx	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/24/2025	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	03/21/2025	ND	198	98.8	200	0.389	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.6	200	0.593	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW - 1 (H251658-09)

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	03/22/2025	ND	1.92	96.1	2.00	10.8		
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44		
Total BTEx	<0.300	0.300	03/22/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/24/2025	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	03/21/2025	ND	198	98.8	200	0.389	
DRO >C10-C28*	11.9	10.0	03/21/2025	ND	189	94.6	200	0.593	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW - 2 (H251658-10)

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	03/22/2025	ND	1.92	96.1	2.00	10.8		
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44		
Total BTEx	<0.300	0.300	03/22/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/24/2025	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	03/21/2025	ND	198	98.8	200	0.389	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.6	200	0.593	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW - 1 (H251658-11)

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	03/22/2025	ND	1.92	96.1	2.00	10.8		
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44		
Total BTEx	<0.300	0.300	03/22/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/24/2025	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	03/21/2025	ND	198	98.8	200	0.389	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.6	200	0.593	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW - 2 (H251658-12)

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	03/22/2025	ND	1.92	96.1	2.00	10.8		
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44		
Total BTEx	<0.300	0.300	03/22/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	198	98.8	200	0.389	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.6	200	0.593	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW - 3 (H251658-13)

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	03/22/2025	ND	1.92	96.1	2.00	10.8	
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44	
Total BTEX	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	198	98.8	200	0.389	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.6	200	0.593	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 100 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW - 4 (H251658-14)

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	03/22/2025	ND	1.92	96.1	2.00	10.8	
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44	
Total BTEx	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	03/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF - 1 (H251658-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2025	ND	1.92	96.1	2.00	10.8		
Toluene*	<0.050	0.050	03/22/2025	ND	2.02	101	2.00	11.1		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	11.7		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.21	103	6.00	9.44		
Total BTEX	<0.300	0.300	03/22/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 98.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF - 2 (H251658-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5	
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8	
Total BTEx	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF - 3 (H251658-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5	
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8	
Total BTEx	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 96.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF - 4 (H251658-18)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5	
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8	
Total BTX	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF - 5 (H251658-19)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5	
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8	
Total BTX	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 1 @ 2' (H251658-20)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5	
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8	
Total BTEX	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 2 @ 1' (H251658-21)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5	
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8	
Total BTX	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	30.8	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	11.8	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 3 @ 1' (H251658-22)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5	
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8	
Total BTEx	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	27.2	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 4 @ 1' (H251658-23)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5	
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8	
Total BTEX	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 5 @ 1' (H251658-24)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5	
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8	
Total BTEx	<0.300	0.300	03/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 6 @ 1' (H251658-25)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5	
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8	
Total BTEX	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	61.7	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	28.2	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 7 @ 1' (H251658-26)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5	
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8	
Total BTEX	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 98.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 8 @ 4' (H251658-27)

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	03/22/2025	ND	2.07	103	2.00	11.5	
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8	
Total BTX	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 99.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 100 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 9 @ 4' (H251658-28)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5	
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8	
Total BTEx	<0.300	0.300	03/22/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 94.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 10 @ 1' (H251658-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5		
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8		
Total BTEx	<0.300	0.300	03/22/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	13.6	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 11 @ 1' (H251658-30)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5		
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8		
Total BTX	<0.300	0.300	03/22/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 12 @ 1' (H251658-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5		
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8		
Total BTEX	<0.300	0.300	03/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 13 @ 1' (H251658-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5		
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8		
Total BTEX	<0.300	0.300	03/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	03/24/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	24.9	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 14 @ 1' (H251658-33)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5		
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8		
Total BTEx	<0.300	0.300	03/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/24/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	194	96.8	200	2.07	
DRO >C10-C28*	61.2	10.0	03/21/2025	ND	189	94.3	200	1.20	
EXT DRO >C28-C36	30.8	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 118 % 40.6-153

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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 15 @ 1' (H251658-34)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5		
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8		
Total BTEX	<0.300	0.300	03/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/24/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	188	94.2	200	2.72	
DRO >C10-C28*	16.1	10.0	03/21/2025	ND	181	90.7	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 80.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 16 @ 1' (H251658-35)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2025	ND	2.07	103	2.00	11.5		
Toluene*	<0.050	0.050	03/22/2025	ND	2.09	104	2.00	11.0		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.19	109	2.00	11.7		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	6.39	107	6.00	11.8		
Total BTX	<0.300	0.300	03/22/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	03/24/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	188	94.2	200	2.72	
DRO >C10-C28*	11.5	10.0	03/21/2025	ND	181	90.7	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 79.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 17 @ 1' (H251658-36)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2025	ND	2.01	101	2.00	20.1	QM-07	
Toluene*	<0.050	0.050	03/22/2025	ND	2.21	110	2.00	17.7		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.36	118	2.00	16.5		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	7.16	119	6.00	16.8		
Total BTEX	<0.300	0.300	03/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/24/2025	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	188	94.2	200	2.72	
DRO >C10-C28*	10.5	10.0	03/21/2025	ND	181	90.7	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 79.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.7 % 40.6-153

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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 18 @ 1' (H251658-37)

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	03/22/2025	ND	2.01	101	2.00	20.1		
Toluene*	<0.050	0.050	03/22/2025	ND	2.21	110	2.00	17.7		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.36	118	2.00	16.5		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	7.16	119	6.00	16.8		
Total BTX	<0.300	0.300	03/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/24/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	188	94.2	200	2.72	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	181	90.7	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 82.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.2 % 40.6-153

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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 19 @ 1' (H251658-38)

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	03/22/2025	ND	2.01	101	2.00	20.1	
Toluene*	<0.050	0.050	03/22/2025	ND	2.21	110	2.00	17.7	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.36	118	2.00	16.5	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	7.16	119	6.00	16.8	
Total BTX	<0.300	0.300	03/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/24/2025	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	188	94.2	200	2.72	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	181	90.7	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 81.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.6 % 40.6-153

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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 20 @ 1' (H251658-39)

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	03/22/2025	ND	2.01	101	2.00	20.1	
Toluene*	<0.050	0.050	03/22/2025	ND	2.21	110	2.00	17.7	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.36	118	2.00	16.5	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	7.16	119	6.00	16.8	
Total BTX	<0.300	0.300	03/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/24/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	188	94.2	200	2.72	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	181	90.7	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 89.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.4 % 40.6-153

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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 21 @ 1' (H251658-40)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2025	ND	2.01	101	2.00	20.1		
Toluene*	<0.050	0.050	03/22/2025	ND	2.21	110	2.00	17.7		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.36	118	2.00	16.5		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	7.16	119	6.00	16.8		
Total BTEx	<0.300	0.300	03/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/24/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	188	94.2	200	2.72	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	181	90.7	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 22 @ 1' (H251658-41)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2025	ND	2.01	101	2.00	20.1		
Toluene*	<0.050	0.050	03/22/2025	ND	2.21	110	2.00	17.7		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.36	118	2.00	16.5		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	7.16	119	6.00	16.8		
Total BTEX	<0.300	0.300	03/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/24/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	188	94.2	200	2.72	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	181	90.7	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 23 @ 1' (H251658-42)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2025	ND	2.01	101	2.00	20.1		
Toluene*	<0.050	0.050	03/22/2025	ND	2.21	110	2.00	17.7		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.36	118	2.00	16.5		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	7.16	119	6.00	16.8		
Total BTEx	<0.300	0.300	03/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/24/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	188	94.2	200	2.72	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	181	90.7	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 24 @ 1' (H251658-43)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2025	ND	2.01	101	2.00	20.1	
Toluene*	<0.050	0.050	03/22/2025	ND	2.21	110	2.00	17.7	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.36	118	2.00	16.5	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	7.16	119	6.00	16.8	
Total BTEx	<0.300	0.300	03/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/24/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	188	94.2	200	2.72	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	181	90.7	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 84.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 25 @ 1' (H251658-44)

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	03/22/2025	ND	2.01	101	2.00	20.1		
Toluene*	<0.050	0.050	03/22/2025	ND	2.21	110	2.00	17.7		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.36	118	2.00	16.5		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	7.16	119	6.00	16.8		
Total BTX	<0.300	0.300	03/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/24/2025	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	188	94.2	200	2.72	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	181	90.7	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 79.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 26 @ 1' (H251658-45)

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	03/22/2025	ND	2.01	101	2.00	20.1	
Toluene*	<0.050	0.050	03/22/2025	ND	2.21	110	2.00	17.7	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.36	118	2.00	16.5	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	7.16	119	6.00	16.8	
Total BTX	<0.300	0.300	03/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/24/2025	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	188	94.2	200	2.72	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	181	90.7	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 83.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 27 @ 1' (H251658-46)

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	03/22/2025	ND	2.01	101	2.00	20.1	
Toluene*	<0.050	0.050	03/22/2025	ND	2.21	110	2.00	17.7	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.36	118	2.00	16.5	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	7.16	119	6.00	16.8	
Total BTX	<0.300	0.300	03/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/24/2025	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	188	94.2	200	2.72	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	181	90.7	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 76.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 28 @ 1' (H251658-47)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/22/2025	ND	2.01	101	2.00	20.1		
Toluene*	<0.050	0.050	03/22/2025	ND	2.21	110	2.00	17.7		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.36	118	2.00	16.5		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	7.16	119	6.00	16.8		
Total BTEx	<0.300	0.300	03/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	03/24/2025	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2025	ND	188	94.2	200	2.72	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	181	90.7	200	6.23	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 82.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etch Environmental										BILL TO										ANALYSIS REQUEST									
Project Manager: Joel Lowry										P.O. #:																			
Address: 2617 W Marland Blvd										Company: Etch Environmental																			
City: Hobbs										Attn:																			
Phone #: (575) 264-9884										Address:																			
Project #: 21644										City:																			
Project Name: Shell State 4 Flowline										State:																			
Project Location: GPS: (33.370642, -103.651417)										Phone #:																			
Sampler Name: Martin Sepulveda										Fax #:																			
FOR LAB USE ONLY										DATE										TIME									
Lab I.D. Sample I.D.										DATE										TIME									
14511058										3/19/25										14511058									
SW-1										X										X									
SW-2										X										X									
SW-3										X										X									
SW-4										X										X									
SW-5										X										X									
EW-1										X										X									
EW-2										X										X									
EW-3										X										X									
WW-1										X										X									
WW-2										X										X									
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85										3/19/25										85									
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101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etch Environmental		P.O. #:		BILL TO																																											
Project Manager: Joel Lowy		Company: Etch Environmental																																													
Address: 2617 W Marland Blvd		Attn:																																													
City: Hobbs		Address:																																													
Phone #: (575) 264-9884		City:																																													
Fax #: (575) 393-2326		State: NM																																													
Zip: 88240		Project Owner: 3 R Operating																																													
Project #: 21644		State:																																													
Project Name: Shell State 4 Flowline		Zip:																																													
Project Location: GPS: (33.370642, -103.651417)		Phone #:																																													
Fax #:																																															
Sampler Name: Martin Sepulveda																																															
FOR LAB USE ONLY																																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)COMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME		Chloride		TPH		BTEX 8021		ANALYSIS REQUEST											
11		NW-1		C		1		X		X		X		X		X		X		X		X		X		3/19/25		X		X		X															
12		NW-2		C		1		X		X		X		X		X		X		X		X		X		3/19/25		X		X		X															
13		NW-3		C		1		X		X		X		X		X		X		X		X		X		3/19/25		X		X		X															
14		NW-4		C		1		X		X		X		X		X		X		X		X		X		3/19/25		X		X		X															
15		NW-1 *		C		1		X		X		X		X		X		X		X		X		X		3/19/25		X		X		X															
16		NW-2		C		1		X		X		X		X		X		X		X		X		X		3/19/25		X		X		X															
17		NW-3		C		1		X		X		X		X		X		X		X		X		X		3/19/25		X		X		X															
18		NW-4		C		1		X		X		X		X		X		X		X		X		X		3/19/25		X		X		X															
19		NW-5		C		1		X		X		X		X		X		X		X		X		X		3/19/25		X		X		X															
20		FL1 @ 2'		C		1		X		X		X		X		X		X		X		X		X		3/19/25		X		X		X															
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Relinquished By:		Date: 3/20/25		Time: 1453		Received By: Stocking		Date: 3/20/25		Time: 1453		Sample Condition: Cool Intact		Checked By: (Initials) 82		REMARKS: Email copy of COC and results to: PM@etchenv.com * Customer requested ID change to 3/21/25 Push added 21 day 3/21/25																															
Relinquished By:		Date:		Time:		Received By:		Date:		Time:		Sample Condition: Cool Intact		Checked By: (Initials)																																	
Delivered By: (Circle One)		- UPS		- Bus		- Other		- UPS		- Bus		- Other		- UPS		- Bus		- Other		- UPS		- Bus		- Other		- UPS		- Bus		- Other		- UPS		- Bus		- Other											
Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476																																															



101 East Marland, Hobbs, NM 88240
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Elech Environmental		P.O. #:		BILL TO												ANALYSIS REQUEST																													
Project Manager: Joel Lowry		Company: Elech Environmental																																											
Address: 2617 W Marland Blvd		Attn:																																											
City: Hobbs		State: NM		Zip: 88240																																									
Phone #: (575) 264-9884		Fax #:		Address:																																									
Project #: 21644		Project Owner: 3 R Operating		City:																																									
Project Name: Shell State 4 Flowline		State:		Zip:																																									
Project Location: GPS: (33.370642, -103.651417)		Phone #:																																											
Sample Name: Martin Sepulveda		Fax #:																																											
FOR LAB USE ONLY																																													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		Chloride		TPH		BTEX 8021											
21		FL2 @ 1'		C		1		X				X				X				X				X		3/19/25				X		X		X											
22		FL3 @ 1'		C		1		X				X				X				X				X		3/19/25				X		X		X											
23		FL4 @ 1'		C		1		X				X				X				X				X		3/19/25				X		X		X											
24		FL5 @ 1'		C		1		X				X				X				X				X		3/19/25				X		X		X											
25		FL6 @ 1'		C		1		X				X				X				X				X		3/19/25				X		X		X											
26		FL7 @ 1'		C		1		X				X				X				X				X		3/19/25				X		X		X											
27		FL8 @ 24'		C		1		X				X				X				X				X		3/19/25				X		X		X											
28		FL9 @ 24'		C		1		X				X				X				X				X		3/19/25				X		X		X											
29		FL10 @ 1'		C		1		X				X				X				X				X		3/19/25				X		X		X											
30		FL11 @ 1'		C		1		X				X				X				X				X		3/19/25				X		X		X											
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Relinquished By: <i>PM</i>		Date: 3/20/25		Time: 1453		Received By: <i>Stockingery</i>																																							
Relinquished By:		Date:		Time:		Received By:																																							
Delivered By: (Circle One) <i>6.2/10/0.3</i>		Sample Condition		CHECKED BY: <i>SLC</i>																																									
Sampler - UPS - Bus - Other: <i>5.9: #140</i>		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																									
† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476																																													



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etch Environmental		P.O. #:		BILL TO											
Project Manager: Joel Lowry		Company: Etch Environmental													
Address: 2617 W Marland Blvd		Attn:													
City: Hobbs		Address:													
Phone #: (575) 264-9884		City:													
Fax #: (575) 264-9884		State: NM													
Project #: 21644		Zip: 88240													
Project Name: Shell State 4 Flowline		3 R Operating													
Project Location: GPS: (33.370642, -103.651417)		State: NM													
Fax #: (575) 393-2476		Phone #: (575) 393-2476													
Sampler Name: Martin Sepulveda		Fax #:													
FOR LAB USE ONLY		PRESERV.		SAMPLING											
Lab I.D. HBS11058		Sample I.D.													
FL12 @ 1'		C 1		DATE 3/19/25											
FL13 @ 1'		C 1		TIME											
FL14 @ 1'		C 1		Chloride											
FL15 @ 1'		C 1		TPH											
FL16 @ 1'		C 1		BTEX 8021											
FL17 @ 1'		C 1													
FL18 @ 1'		C 1													
FL19 @ 1'		C 1													
FL20 @ 1'		C 1													
FL21 @ 1'		C 1													
31		C 1													
32		C 1													
33		C 1													
34		C 1													
35		C 1													
36		C 1													
37		C 1													
38		C 1													
39		C 1													
40		C 1													
Relinquished By: [Signature]		Received By: [Signature]		REMARKS: Email copy of COC and results to: PM@etchenv.com											
Date: 3/20/25		Time: 1453		Pushed added 21 Day 3/21/25											
Relinquished By: [Signature]		Received By: [Signature]													
Date: [Blank]		Time: [Blank]													
Delivered By: (Circle One) - UPS - Bus - Other: -5.9: #140		Sample Condition		CHECKED BY: [Signature]											
Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>													
No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>													



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

March 25, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SHELL STATE 4 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 03/21/25 17:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW - 5 (H251694-01)

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	03/24/2025	ND	1.94	97.2	2.00	0.971		
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972		
Total BTEx	<0.300	0.300	03/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	03/25/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	196	97.9	200	0.359	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	184	91.8	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 69.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 65.8 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW - 6 (H251694-02)

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	03/24/2025	ND	1.94	97.2	2.00	0.971	
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767	
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475	
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972	
Total BTEx	<0.300	0.300	03/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/25/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	196	97.9	200	0.359	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	184	91.8	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 73.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.2 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 6 (H251694-03)

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	03/24/2025	ND	1.94	97.2	2.00	0.971		
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972		
Total BTEX	<0.300	0.300	03/24/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/25/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	196	97.9	200	0.359	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	184	91.8	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 78.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.4 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 35 @ 4' (H251694-04)

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	03/24/2025	ND	1.94	97.2	2.00	0.971		
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972		
Total BTEX	<0.300	0.300	03/24/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	196	97.9	200	0.359	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	184	91.8	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 75.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 34 @ 4' (H251694-05)

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	03/24/2025	ND	1.94	97.2	2.00	0.971		
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972		
Total BTEX	<0.300	0.300	03/24/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	196	97.9	200	0.359	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	184	91.8	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 78.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.3 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 33 @ 4' (H251694-06)

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	03/24/2025	ND	1.94	97.2	2.00	0.971		
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972		
Total BTEX	<0.300	0.300	03/24/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	196	97.9	200	0.359	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	184	91.8	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 69.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.2 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 32 @ 4' (H251694-07)

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	03/24/2025	ND	1.94	97.2	2.00	0.971		
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972		
Total BTX	<0.300	0.300	03/24/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	196	97.9	200	0.359	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	184	91.8	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 79.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.5 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 31 @ 4' (H251694-08)

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	03/24/2025	ND	1.94	97.2	2.00	0.971		
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972		
Total BTEX	<0.300	0.300	03/24/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	196	97.9	200	0.359	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	184	91.8	200	1.97	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 75.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.9 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 30 @ 4' (H251694-09)

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	03/24/2025	ND	1.94	97.2	2.00	0.971	
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767	
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475	
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972	
Total BTEX	<0.300	0.300	03/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 74.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.2 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 29 @ 4' (H251694-10)

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	03/24/2025	ND	1.94	97.2	2.00	0.971		
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972		
Total BTEx	<0.300	0.300	03/24/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.0 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 28 @ 4' (H251694-11)

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	03/24/2025	ND	1.94	97.2	2.00	0.971		
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972		
Total BTEx	<0.300	0.300	03/24/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.2 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 27 @ 4' (H251694-12)

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	03/24/2025	ND	1.94	97.2	2.00	0.971	
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767	
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475	
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972	
Total BTEx	<0.300	0.300	03/24/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 94.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.6 % 40.6-153

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

Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 26 @ 4' (H251694-13)

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	03/24/2025	ND	1.94	97.2	2.00	0.971		
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972		
Total BTEx	<0.300	0.300	03/24/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.6 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 25 @ 4' (H251694-14)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2025	ND	1.94	97.2	2.00	0.971		
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972		
Total BTX	<0.300	0.300	03/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.2 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 24 @ 4' (H251694-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2025	ND	1.94	97.2	2.00	0.971	
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767	
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475	
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972	
Total BTEX	<0.300	0.300	03/24/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	03/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 94.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.6 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 23 @ 4' (H251694-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2025	ND	1.94	97.2	2.00	0.971	
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767	
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475	
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972	
Total BTEX	<0.300	0.300	03/24/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.1 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 22 @ 4' (H251694-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2025	ND	1.94	97.2	2.00	0.971		
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972		
Total BTEx	<0.300	0.300	03/24/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 78.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.8 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 21 @ 4' (H251694-18)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2025	ND	1.94	97.2	2.00	0.971	
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767	
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475	
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972	
Total BTX	<0.300	0.300	03/24/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 96.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.4 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 20 @ 4' (H251694-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2025	ND	1.94	97.2	2.00	0.971	
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767	
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475	
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972	
Total BTEX	<0.300	0.300	03/24/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 78.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.9 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 19 @ 4' (H251694-20)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2025	ND	1.94	97.2	2.00	0.971	
Toluene*	<0.050	0.050	03/24/2025	ND	2.01	100	2.00	0.767	
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.03	102	2.00	0.475	
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.16	103	6.00	0.972	
Total BTX	<0.300	0.300	03/24/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	ND	213	107	200	0.310	
DRO >C10-C28*	17.6	10.0	03/25/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.2 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 18 @ 4' (H251694-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2025	ND	1.96	98.1	2.00	4.18		
Toluene*	<0.050	0.050	03/24/2025	ND	2.13	106	2.00	4.31		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.30	115	2.00	4.60		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.94	116	6.00	4.70		
Total BTEX	<0.300	0.300	03/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 90.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.6 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 17 @ 4' (H251694-22)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2025	ND	1.96	98.1	2.00	4.18	
Toluene*	<0.050	0.050	03/24/2025	ND	2.13	106	2.00	4.31	
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.30	115	2.00	4.60	
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.94	116	6.00	4.70	
Total BTEX	<0.300	0.300	03/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	03/25/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 95.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.9 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 16 @ 4' (H251694-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2025	ND	1.96	98.1	2.00	4.18		
Toluene*	<0.050	0.050	03/24/2025	ND	2.13	106	2.00	4.31		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.30	115	2.00	4.60		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.94	116	6.00	4.70		
Total BTEx	<0.300	0.300	03/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/25/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 88.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.4 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 15 @ 4' (H251694-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2025	ND	1.96	98.1	2.00	4.18		
Toluene*	<0.050	0.050	03/24/2025	ND	2.13	106	2.00	4.31		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.30	115	2.00	4.60		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.94	116	6.00	4.70		
Total BTEX	<0.300	0.300	03/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	03/25/2025	ND	448	112	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 89.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.0 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 14 @ 4' (H251694-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2025	ND	1.96	98.1	2.00	4.18		
Toluene*	<0.050	0.050	03/24/2025	ND	2.13	106	2.00	4.31		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.30	115	2.00	4.60		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.94	116	6.00	4.70		
Total BTEX	<0.300	0.300	03/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	03/25/2025	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	03/25/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.1 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 13 @ 4' (H251694-26)

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	03/24/2025	ND	1.96	98.1	2.00	4.18		
Toluene*	<0.050	0.050	03/24/2025	ND	2.13	106	2.00	4.31		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.30	115	2.00	4.60		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.94	116	6.00	4.70		
Total BTX	<0.300	0.300	03/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1120	16.0	03/25/2025	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	03/25/2025	ND	213	107	200	0.310	
DRO >C10-C28*	20.9	10.0	03/25/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.4 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 12 @ 4' (H251694-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2025	ND	1.96	98.1	2.00	4.18		
Toluene*	<0.050	0.050	03/24/2025	ND	2.13	106	2.00	4.31		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.30	115	2.00	4.60		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.94	116	6.00	4.70		
Total BTEx	<0.300	0.300	03/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	03/25/2025	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	03/25/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 97.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 11 @ 4' (H251694-28)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2025	ND	1.96	98.1	2.00	4.18	
Toluene*	<0.050	0.050	03/24/2025	ND	2.13	106	2.00	4.31	
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.30	115	2.00	4.60	
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.94	116	6.00	4.70	
Total BTEX	<0.300	0.300	03/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	03/25/2025	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	03/25/2025	ND	213	107	200	0.310	
DRO >C10-C28*	<10.0	10.0	03/25/2025	ND	204	102	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	03/25/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 100 % 40.6-153

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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 10 @ 4' (H251694-29)

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	03/24/2025	ND	1.96	98.1	2.00	4.18	
Toluene*	<0.050	0.050	03/24/2025	ND	2.13	106	2.00	4.31	
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.30	115	2.00	4.60	
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.94	116	6.00	4.70	
Total BTX	<0.300	0.300	03/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	03/25/2025	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	03/24/2025	ND	190	95.2	200	0.331	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	195	97.5	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 73.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 9 @ 4' (H251694-30)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2025	ND	1.96	98.1	2.00	4.18	
Toluene*	<0.050	0.050	03/24/2025	ND	2.13	106	2.00	4.31	
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.30	115	2.00	4.60	
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.94	116	6.00	4.70	
Total BTEx	<0.300	0.300	03/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/25/2025	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	03/24/2025	ND	190	95.2	200	0.331	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	195	97.5	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 88.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 8 @ 4' (H251694-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2025	ND	1.96	98.1	2.00	4.18		
Toluene*	<0.050	0.050	03/24/2025	ND	2.13	106	2.00	4.31		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.30	115	2.00	4.60		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.94	116	6.00	4.70		
Total BTEx	<0.300	0.300	03/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	03/25/2025	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	03/24/2025	ND	190	95.2	200	0.331	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	195	97.5	200	1.17	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 7 @ 4' (H251694-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2025	ND	1.96	98.1	2.00	4.18		
Toluene*	<0.050	0.050	03/24/2025	ND	2.13	106	2.00	4.31		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.30	115	2.00	4.60		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.94	116	6.00	4.70		
Total BTEX	<0.300	0.300	03/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	03/25/2025	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	03/24/2025	ND	190	95.2	200	0.331	
DRO >C10-C28*	48.2	10.0	03/24/2025	ND	195	97.5	200	1.17	
EXT DRO >C28-C36	22.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/25/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: NOT GIVEN
 Project Location: 3R OPERATING 33.370642-103.651417

Sampling Date: 03/21/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: RF 6 @ 4' (H251694-33)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2025	ND	1.96	98.1	2.00	4.18	
Toluene*	<0.050	0.050	03/24/2025	ND	2.13	106	2.00	4.31	
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	2.30	115	2.00	4.60	
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.94	116	6.00	4.70	
Total BTEX	<0.300	0.300	03/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	03/25/2025	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	03/24/2025	ND	190	95.2	200	0.331	
DRO >C10-C28*	50.5	10.0	03/24/2025	ND	195	97.5	200	1.17	
EXT DRO >C28-C36	25.4	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 87.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



Etch

Lab I.D.	Sample I.D.
HAS1094	
NW-5	(G)RAB OR (C)OMP
NW-6	# CONTAINERS
SW-6	GROUNDWATER
RF-35 @ 4'	WASTEWATER
RF-34 @ 4'	SOIL
RF-33 @ 4'	OIL
RF-32 @ 4'	SLUDGE
RF-31 @ 4'	OTHER :
RF-30 @ 4'	ACID/BASE:
RF-29 @ 4'	ICE / COOL
	OTHER :
	DATE
	TIME
	Chloride
	TPH
	BTEX

Relinquished By:	Received By:	Verbal Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
13	13			

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



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>C Tech</i>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <i>Loree Manshew</i>		Company:					
Address:		Attn:					
City:		State:		Zip:			
Phone #:		Fax #:		Address:			
Project #:		City:		State:		Zip:	
Project Name:		Phone #:		Fax #:			
Project Location:		Sampler Name: <i>Justin Sepulveda</i>					
FOR LAB USE ONLY		DATE		TIME			
Lab I.D.		Sample I.D.					
<i>HS11094</i> <i>11</i> RF-28 @4' <i>12</i> RF-27 @4' <i>13</i> RF-26 @4' <i>14</i> RF-25 @4' <i>15</i> RF-24 @4' <i>16</i> RF-23 @4' <i>17</i> RF-22 @4' <i>18</i> RF-21 @4' <i>19</i> RF-20 @4' <i>20</i> RF-19 @4'		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		DATE <i>3-21-25</i>		TIME <i>11:00</i>	
Relinquished By: <i>[Signature]</i>		Received By: <i>Stoddiequay</i>					
Date: <i>3-21-25</i>		Time: <i>11:01</i>					
Delivered By: (Circle One)		Observed Temp. °C: <i>4.2</i>		Sample Condition		CHECKED BY: <i>[Signature]</i>	
Sample - UPS - Bus - Other:		Corrected Temp. °C: <i>4.5</i>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>			
Turnaround Time: <i>Standard</i>		Thermometer ID #140		Bacteria (only) Sample Condition			
		Correction Factor: <i>10.3</i>		Cool / Intact <input checked="" type="checkbox"/>			
				Observed Temp. °C			
				Corrected Temp. °C			

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



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Etech</i>		P.O. #:		BILL TO		ANALYSIS REQUEST									
Project Manager: <i>Lane Lensenha</i>		Company:													
Address:		Attn:													
City:		State:		Zip:											
Phone #:		Fax #:		Address:											
Project #:		Project Owner:		City:											
Project Name:		State:		Zip:											
Project Location:		Phone #:		Fax #:											
Sample Name: <i>Water Sample</i>		PRESERV:		SAMPLING											
FOR LAB USE ONLY		MATRIX													
		GROUNDWATER													
		WASTEWATER													
		SOIL													
		OIL													
		SLUDGE													
		OTHER:													
		ACID/BASE:													
		ICE / COOL													
		OTHER:													
Lab I.D.		DATE		TIME											
Sample I.D.		DATE		TIME											
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RF-9 @ 4'															
RF-8 @ 4'															
RF-7 @ 4'															
RF-6 @ 4'															
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RF-4 @ 4'															
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RF-1 @ 4'															
RF-0 @ 4'															
RF-18 @ 4'															
RF-17 @ 4'															
RF-16 @ 4'															
RF-15 @ 4'															
RF-14 @ 4'															
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RF-0 @ 4'															
RF-18 @ 4'															
RF-17 @ 4'															
RF-16 @ 4'															



**101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476**

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

April 04, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SHELL STATE 4 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 03/31/25 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/31/2025
 Reported: 04/04/2025
 Project Name: SHELL STATE 4 FLOWLINE
 Project Number: 21644
 Project Location: 3R OPERATING 33.369742-103.647038

Sampling Date: 03/28/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: PEARCE TRUST STOCKPILE (H251888-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2025	ND	2.11	106	2.00	0.0570	
Toluene*	<0.050	0.050	04/01/2025	ND	2.21	110	2.00	2.71	
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.50	125	2.00	4.42	
Total Xylenes*	<0.150	0.150	04/01/2025	ND	7.65	127	6.00	4.85	
Total BTEX	<0.300	0.300	04/01/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/01/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2025	ND	205	102	200	2.59	
DRO >C10-C28*	<10.0	10.0	04/01/2025	ND	203	101	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 55.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 53.4 % 40.6-153

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

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

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.

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

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

Appendix E

Regulatory Correspondence

Robbie Runnels

From: Joel Lowry
Sent: Tuesday, April 8, 2025 8:11 AM
To: Robbie Runnels
Subject: FW: [EXTERNAL] 3R Operating's Shell State #004 Flowline - Additional Open Incidents - Sample Notification Variance - nPAC0715030512 and nPAC0600429640

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Wednesday, March 19, 2025 3:03 PM
To: Joel Lowry <joel@etechenv.com>
Cc: Randy Ferrell <rferrell@3ROperating.com>; Lauren Franco <lfranco@3ROperating.com>
Subject: RE: [EXTERNAL] 3R Operating's Shell State #004 Flowline - Additional Open Incidents - Sample Notification Variance - nPAC0715030512 and nPAC0600429640

Joel,

The variance request from the 2-day sampling notification requirement for incidents nPAC0715030512 and nPAC0600429640 is approved.

Please submit a C-141N under incident numbers nPAC0715030512 and nPAC0600429640 as sampling notifications submitted under nAPP2301367245 can only be used for that incident number. If C-141N's are not submitted under incident numbers nPAC0715030512 and nPAC0600429640, remediation closure report cannot be submitted by the operator, as the C-141 will lock out the submission as our system will see that the requirements of 19.15.29 NMAC were not met.

Please include a copy of this email chain in the next submittal for nPAC0715030512 and nPAC0600429640.

Thank you,
Brittany Hall ● Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd/>

Effective 12/1/2024: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> under "2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS".

The Digital C-141 guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

From: Joel Lowry <joel@etechenv.com>
Sent: Wednesday, March 19, 2025 2:53 PM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Cc: Randy Ferrell <rferrell@3ROperating.com>; Lauren Franco <lfranco@3ROperating.com>

Subject: [EXTERNAL] 3R Operating's Shell State #004 Flowline - Additional Open Incidents - Sample Notification Variance - nPAC0715030512 and nPAC0600429640

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Ms. Hall,

Per our discussion, a recent regulatory file review revealed two (2) additional open regulatory files (nPAC0715030512 and nPAC0600429640) on the flowlines between the Shell State #003 and the Shell State Tank Battery proximate to Shell State #004 Flowline release (nAPP2301367245) we are currently remediating. With this, Etech on behalf of 3R Operating, requests permission to utilize the soil samples currently being collected under appropriate C-141N (442876, 442887, 44290) for all three (3) open incidents as the releases appear to commingle and were unknowingly being remediated simultaneously. In order to utilize the samples currently being collected on the other two (2) reported incidents, Etech, on behalf of 3R Operating, requests a variance from the 2-day sampling notification requirement for incidents nPAC0715030512 and nPAC0600429640. On receiving NMOCD approval, electronic sampling notifications will be submitted for nPAC0715030512 and nPAC0600429640 citing the variance and the fact that three (3) reported releases are being remediated concurrently. Upon completion of remediation activities, a *Remediation Summary and Closure Report* will be prepared detailing remediation activities and laboratory analytical results from confirmation soil samples.

If you have any questions or need any additional information, please feel free to contact me by phone or email. Thanks.

Respectfully,

Joel Lowry

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	444158	Districts:	Hobbs
Operator:	[331569] 3R Operating, LLC	Counties:	Lea
Description:	3R Operating, LLC [331569] , SHELL STATE #003 , nPAC0600429640		
Status:	APPROVED		
Status Date:	03/20/2025		
References (2):	30-025-23014, nPAC0600429640		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nPAC0600429640
Incident Name	NPAC0600429640 SHELL STATE #003 @ 30-025-23014
Incident Type	Oil Release
Incident Status	Closure Not Approved
Incident Well	[30-025-23014] SHELL STATE #003

Location of Release Source

Site Name	SHELL STATE #003
Date Release Discovered	12/24/2005
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	17,000
What is the estimated number of samples that will be gathered	60
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/20/2025
Time sampling will commence	09:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers

Martin Sepulveda, 432-305-7322 Three reported releases are being remediated simultaneously. The original e notification only referenced incident number nAPP2301367245. Per the NMOCD, a Variance request was subri

Acknowledgments

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary: *Ifranco (3/20/2025),* Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

Go Back

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	444146	Districts:	Hobbs
Operator:	[331569] 3R Operating, LLC	Counties:	Lea
Description:	3R Operating, LLC [331569] , SHELL STATE #003 , nPAC0715030512		
Status:	APPROVED		
Status Date:	03/20/2025		
References (2):	30-025-23014, nPAC0715030512		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	nPAC0715030512
Incident Name	NPAC0715030512 SHELL STATE #003 @ 30-025-23014
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-23014] SHELL STATE #003

Location of Release Source

Site Name	SHELL STATE #003
Date Release Discovered	10/21/2006
Surface Owner	State

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	17,000
What is the estimated number of samples that will be gathered	60
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/20/2025
Time sampling will commence	09:00 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers
Martin Sepulveda - 432-305-7322 Three reported releases are being remediated simultaneously. The original notification only referenced incident number nAPP2301367245. Per the NMOCD, a Variance request was sub

Acknowledgments

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary: *lfranco (3/20/2025)*, Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

Go Back

OCD Permitting

Home Searches Incidents Incident Details

NAPP2301367245 STATE 4 FLOW LINE @ 30-025-23190

General Incident Information

Site Name:

STATE 4 FLOW LINE

Well:

[\[30-025-23190\]](#) SHELL STATE #004

Facility:

Operator:

[\[331569\]](#) 3R Operating, LLC

Status:

Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator

Type:

Oil Release

Severity:

Major

Surface Owner:

State

County:

Lea (25)

District:

Hobbs

Incident Location:

F-18-11S-33E 1980 FNL 2095 FWL

Lat/Long:

33.370642,-103.651417 NAD83

Directions:

- Quic
- [Gene](#)
 - [Mater](#)
 - [Event](#)
 - [Order](#)
 - [Actior](#)

- Asso
- [Incide](#)
 - [Well F](#)

- New
- [New f](#)
 - [New I](#)
 - [New C](#)
 - [New f](#)
 - [New 5](#)
 - [New 1](#)
 - [New \](#)

Notes

Source of Referral:

Industry Rep

Action / Escalation:

Referred to Environmental Inspector

Resulted In Fire:

☐

Resulted In Injury:

☐

Endangered Public Health:

☐

Will or Has Reached Watercourse:

☐

Fresh Water Contamination:

☐

Property Or Environmental Damage:

☐

Contact Details

Contact Name:

Wayne Price

Contact Title:

Consultant for Read and Stevens

Event Dates

Date of Discovery:

01/12/2023

Initial C-141 Report Due:

1/27/2023

Remediation Closure Report Due:

06/03/2025

Incident Dates

Type	Action	Received	Denied	Approved
Remediation Closure Report Extension		06/23/2023		06/23/2023
Sampling Notice	[442914]	03/17/2025		03/17/2025
Sampling Notice	[442910]	03/17/2025		03/17/2025
Sampling Notice	[442909]	03/17/2025		03/17/2025
Sampling Notice	[442902]	03/17/2025		03/17/2025
Sampling Notice	[442887]	03/17/2025		03/17/2025

Sampling Notice	[403593]	11/15/2024		11/15/2024
Remediation Plan	[436180]	02/27/2025		03/05/2025
Site Characterization	[436180]	02/27/2025		03/05/2025
Initial C-141 Report	[436180]	02/27/2025		03/05/2025
Notification		01/13/2023		01/13/2023

Compositional Analysis of Vented and/or Flared Natural Gas

No Compositional Analysis Found

Incident Materials

Cause	Source	Material	Volume				Units
			Unk.	Released	Recovered	Lost	
Equipment Failure	Flow Line - Production	Crude Oil	<input type="checkbox"/>	20	0	20	BBL
Equipment Failure	Flow Line - Production	Produced Water	<input type="checkbox"/>	25	0	25	BBL
The concentration of dissolved chloride in the produced water >10,000 mg/l: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							

Incident Events

Date	Detail
03/17/2025	The (03/17/2025, C-141N) application [442914] was assigned to this incident.
03/17/2025	The (03/17/2025, C-141N) application [442910] was assigned to this incident.
03/17/2025	The (03/17/2025, C-141N) application [442909] was assigned to this incident.
03/17/2025	The (03/17/2025, C-141N) application [442902] was assigned to this incident.
03/17/2025	The (03/17/2025, C-141N) application [442887] was assigned to this incident.
03/17/2025	The (03/17/2025, C-141N) application [442876] was assigned to this incident.
03/12/2025	The (03/12/2025, C-141N) application [441796] was assigned to this incident.
03/05/2025	Remediation plan conditionally approved. OCD approves proposed the "dig and haul" remediation technique. The upper four feet of the excavation must meet the most stringent closure criteria as this release is located in an area not reasonably needed for production or subsequent drilling operations and must be reclaimed at the time of remediation. OCD will not accept the use of any of the past soil laboratory analytical results as remediation confirmation/closure results. OCD will accept the laboratory analytical results in Table 1, Concentrations of BTEX, TPH, and Chloride in Soil and the attached laboratory analytical results as delineation results only. OCD also does not approve the sampling locations illustrated on Figure 4, Anticipated Excavation & Proposed Sample Location Map as conditions of the excavation may be subject to change when remediation commences. The alternative confirmation sampling plan collecting confirmation samples of no more than 400 square feet is approved. The acceptance of this alternative sampling plan 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; or if the location fails

Searches

Operator Data

Hearing Fee Application

	needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable. The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan. Due 6/6/25.	
03/05/2025	The (03/05/2025, C-141) application [436180] was accepted by OCD. The operator was emailed with details of this event.	
03/05/2025	An application [436180] was submitted to OCD for review. It was submitted, indicating that it was an: [C-141] Application for administrative approval of a release notification and corrective action The operator was emailed confirmation of this event.	
02/27/2025	The (03/05/2025, C-141) application [436180] was assigned to this incident.	
12/19/2024	Extension requested due to "3R Operating is bringing in new 3rd party consultants to address this issue. Please allow this email to serve as a formal request for a 90 day extension to allow our new contractor to get familiar with the incident, it's documentation, and it's overall history." Extension request approved. This will be the final extension for this incident number. New due date is 3/28/2025.	
12/10/2024	This application has been rejected because the C-141 is incomplete. The submitted application indicates a conflict between the questions answered and the attachments that have been submitted. For example the answer "No" was selected when requesting a remediation plan approval; however, your attachments indicate that your intent is to request a remediation closure report approval. Please review the December 1, 2023 Public Notice titled "Implementation of Digital C-141 and New Incident Statuses" found on the EMNRD website. Review your C-141 submission and submit a new C-141 answering the appropriate questions for your circumstance. OCD approved an extension request on 3/21/2023 and the due date was June 23, 2023. This incident is out of compliance. Submit a complete and accurate report and C-141 through the OCD permitting website by 12/20/2024.	
12/10/2024	The (12/10/2024, C-141) application [409710] was rejected by OCD. The operator was emailed with details of this event.	
12/10/2024	An application [409710] was submitted to OCD for review. It was submitted, indicating that it was an: [C-141] Application for administrative approval of a release notification and corrective action The operator was emailed confirmation of this event.	
12/09/2024	The (12/10/2024, C-141) application [409710] was assigned to this incident.	
11/15/2024	The (11/15/2024, C-141N) application [403593] was assigned to this incident.	
03/21/2023	OCD approves a 90-day extension request to June 23, 2023 to submit a remediation plan or closure report.	
02/15/2023	The (02/15/2023, C-141) application [179962] was rejected by OCD. The operator was emailed with details of this event.	
02/15/2023	Remediation Plan Denied. Please follow guidelines in 19.15.29 NMAC for reporting guidelines. Report should include scaled site plan, sample locations and depths, data table, lab data, groundwater criteria determination, etc. Please contact OCD for guidance if needed.	
02/15/2023	An application [179962] was submitted to OCD for review. It was submitted, indicating that it was an: [C-141] Application for administrative approval of a release notification and corrective action The operator was emailed confirmation of this event.	
01/26/2023	The (02/15/2023, C-141) application [179962] was assigned to this incident.	
01/13/2023	The (01/13/2023, NOR) application [176026] was assigned to this incident.	
01/13/2023	Initial Response question & answers at the time of notification were as follows. <ul style="list-style-type: none"> The source of the release has been stopped: True. The impacted area has been secured to protect human health and the environment: True. Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices: True. All free liquids and recoverable materials have been removed and managed appropriately: True. 	
01/13/2023	New incident created by the operator, upon the submission of notification of release.	
01/12/2023	C-141 received on 1/30/2023 for release on 01/12/2023 . The cause of the release was reported as "Break in poly-flowline see attached photos".	

Incident Severity

Major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------

Incident Corrective Actions

Initial Response

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

If all the actions described above have not been undertaken, explain why:

Site Characterization

What is the shallowest depth to groundwater beneath the area affected by the release?	Between 51 and 75 (ft.) bgs
What method was used to determine the depth to ground water?	NM OSE iWaters Database Search
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?	Greater than 5 (mi.)
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Greater than 5 (mi.)
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Between 1 and 5 (mi.)
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?	Between 1 and 5 (mi.)
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Between 1 and 5 (mi.)
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Greater than 5 (mi.)
Are the lateral extents of the release within 300 feet of a wetland?	Greater than 5 (mi.)
Are the lateral extents of the release overlying a subsurface mine?	Greater than 5 (mi.)
Are the lateral extents of the release overlying an (non-karst) unstable area?	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology?	Low
Are the lateral extents of the release within a 100-year floodplain?	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Remediation Plan

Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Chloride ***	(EPA 300.0 or SM4500 Cl B)	13700 (mg/kg)
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	4030 (mg/kg)
GRO+DRO	(EPA SW-846 Method 8015M)	2940 (mg/kg)

On what date will (or was) the remediation complete(d)	05/25/2025
What is the estimated surface area (in square feet) that will be reclaimed?	22340 (sq ft)
What is the estimated volume (in cubic yards) that will be reclaimed?	3300 (cu yds)
What is the estimated surface area (in square feet) that will be remediated?	22340 (sq ft)
What is the estimated volume (in cubic yards) that will be remediated?	3320 (cu yds)

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

☒ (Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)
Which OCD approved facility will be used for **off-site** disposal? [\[FEEM0112338393\]](#) GANDY MARLEY LANDFARM/LANDFILL

☐ OTHER (Non-listed remedial process)?

No active remediation deferral request was found for this incident.

No remediation closure report data was found for this incident.

No reclamation report data was found for this incident.

No re-vegetation report data was found for this incident.

Orders

No Orders Found

Joel Lowry

From: Knight, Tami C. <tknight@nmslo.gov>
Sent: Tuesday, March 25, 2025 2:56 PM
To: Brad Grandstaff; Randy Ferrell; Joel Lowry
Cc: Bisbey-Kuehn, Elizabeth A.; Heltman, Elaine G.; Biernoff, Ari
Subject: Remediation Workplan - 3R -Shell State #004 Flowline nAPP2301367245 - Approved

Documentation of proposed remediation actions for the subject release incident was received from your office on March 19, 2025. The NMSLO Environmental Compliance Office (ECO) has reviewed the plan, and based on the information provided in the document received from your office, ECO has approved the remediation plan. Please submit the remediation closure report to eco@nmslo.gov.

Lessee and/or their contractor are responsible for ensuring the project manager and field personnel performing the work follow the approved work plan.



ECO noted low production/no production reported for Shell State #4 30-025-23190 for 2024 and to date for 2025. Are there plans to P&A and reclaim this well? I believe this was a Read and Stevens well that NMSLO Office of General Counsel had flagged for P&A.

Thank you,

Environmental Compliance Office
 Surface Resources Division
eco@nmslo.gov
nmstatelands.org



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From: Joel Lowry <joel@etechenv.com>
Sent: Wednesday, March 19, 2025 2:14 PM
To: SLO Spills <spills@nmslo.gov>; Knight, Tami C. <tknight@nmslo.gov>
Subject: [EXTERNAL] 3R Workplans - Bandit SWD nAPP2319437518 and Shell State #004 Flowline nAPP2301367245

Please see below links to the workplans recently prepared and submitted on behalf of 3R Operating.

Bandit:

[OCD Permitting](#)

Shell State #004 Flowline:

OCD Permitting

The workplans memorialize that which was discussed during our joint meeting with the NMOCD and NMSLO although the NMOCD did have some conditions on their approval. If you have any questions or need any additional information, please feel free to contact me by phone or email.

Respectfully,

Joel Lowry

Sante Fe Main Office
Phone: (505) 476-3441

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Phone: (505) 629-6116

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

QUESTIONS

Action 464216

QUESTIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 464216
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nPAC0600429640
Incident Name	NPAC0600429640 SHELL STATE #003 @ 30-025-23014
Incident Type	Oil Release
Incident Status	Reclamation Report Received
Incident Well	[30-025-23014] SHELL STATE #003

Location of Release Source

Please answer all the questions in this group.

Site Name	SHELL STATE #003
Date Release Discovered	12/24/2005
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Crude Oil Released: 4 BBL Recovered: 0 BBL Lost: 4 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 4 BBL Recovered: 0 BBL Lost: 4 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 464216

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 464216
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	<i>Not answered.</i>

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Austin Trammell Title: Director of environmental and regulatory Email: atrammell@3roperating.com Date: 05/16/2025
----------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------

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Phone: (505) 476-3441

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QUESTIONS, Page 3

Action 464216

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 464216
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	2640
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	92
GRO+DRO (EPA SW-846 Method 8015M)	61.7
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	03/13/2025
On what date will (or did) the final sampling or liner inspection occur	03/21/2025
On what date will (or was) the remediation complete(d)	03/27/2025
What is the estimated surface area (in square feet) that will be reclaimed	25200
What is the estimated volume (in cubic yards) that will be reclaimed	2560
What is the estimated surface area (in square feet) that will be remediated	25200
What is the estimated volume (in cubic yards) that will be remediated	2560
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 464216

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 464216
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	GANDY MARLEY LANDFARM/LANDFILL [FEEM0112338393]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Austin Tramell Title: Director of environmental and regulatory Email: atramell@3roperating.com Date: 05/16/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 464216

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 464216
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 464216

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 464216
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	444158
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/20/2025
What was the (estimated) number of samples that were to be gathered	60
What was the sampling surface area in square feet	17000

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	25200
What was the total volume (cubic yards) remediated	2560
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	25200
What was the total volume (in cubic yards) reclaimed	2560
Summarize any additional remediation activities not included by answers (above)	The site was remediated concurrently with with nAPP2301367245 which had an approved work plan. Brittany Hall with NMOC approved the plan.
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Austin Trammell Title: Director of environmental and regulatory Email: atrammell@3roperating.com Date: 05/16/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
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QUESTIONS, Page 7

Action 464216

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 464216
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	25200
What was the total volume of replacement material (in cubic yards) for this site	2560
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseedling commence(d)	04/23/2025
Summarize any additional reclamation activities not included by answers (above)	The site was remediated concurrently with with nAPP2301367245 which had an approved work plan. Brittany Hall with NMOCD approved the plan.
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseedling plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Austin Tramel Title: Director of environmental and regulatory Email: atramel@3roperating.com Date: 05/16/2025

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Phone: (505) 476-3441

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QUESTIONS, Page 8

Action 464216

QUESTIONS (continued)

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 464216
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 464216

CONDITIONS

Operator: 3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID: 331569
	Action Number: 464216
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	The remediation and reclamation closure report is approved.	5/23/2025
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	5/23/2025
michael.buchanan	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	5/23/2025