# Site Assessment Summary & Proposed Remediation Plan

## 3R Operating, LLC Shell State Tank Battery

Eddy County, New Mexico
Unit Letter A, Section 18, Township 11 South, Range 33 East
Latitude 33.369742 North, Longitude 103.647038 West
NMOCD Reference No. nPRS0413152570

Prepared By:

Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave, Ste. D Lubbock, Texas 79413

July 2, 2025

Ben J. Arguijo

Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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#### 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of 3R Operating, LLC, has prepared this Site Assessment Summary & Proposed Remediation Plan for the release site known as the Shell State Tank Battery (henceforth, "Site"). Details of the release are summarized below:

		Locatio	on of Release S	ource		
Latitude <u>:</u>	33.369		Longitude			
		Provide	ed GPS are in WGS84 for	mat.		
Site Name:		Tank Battery	Site Type:	Tank Battery		
Date Release Discov	ered:	3/16/2004	API # (if appl	icable):		
Unit Letter S	Section	Township	Range	County		
A				Eddy		
Surface Owner: X	State F	ederal Tribal	Private (N	ame		
J						
		Nature ar	nd Volume of	Release		
Crude Oil	Volume	Released (bbls)		Volume Recovered (bbls)		
X Produced Wate	r Volume	Released (bbls)	8	Volume Recovered (bbls) 0		
		ncentration of dissouced water > 10,00		X Yes No N/A		
Condensate	Volume	Released (bbls)		Volume Recovered (bbls)		
Natural Gas	Volume	Released (Mcf)		Volume Recovered (Mcf)		
Other (describe	) Volume	Weight Released		Volume/Weight Recovered		
Cause of Release: The release was attr	ributed to co	rrosion, possibly of	the dump valve.			
		In	nitial Response			
X The source of the	e release has	been stopped.				
X The impacted ar	ea has been s	ecured to protect hu	man health and the	environment.		
X Release material	s have been	contained via the use	e of berms or dikes,	absorbent pad, or other containment devices		
		ole materials have be				

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

#### 2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)? Between 51 and 75 (ft.) What method was used to determine the depth to groundwater? NM OSE iWaters Database Search Did the release impact groundwater or surface water? Χ No What is the minimum distance between the closest lateral extents of the release and the following surface areas? A continuously flowing watercourse or any other significant watercourse? Between 1 and 5 (mi.) Between 1 and 5 (mi.) Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? 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 1,000 (ft.) and  $\frac{1}{2}$  (mi.) Between 1000 (ft.) and  $\frac{1}{2}$  (mi.) Any other fresh water well or spring? Incorporated municipal boundaries or a defined municipal fresh water well field? Greater than 5 (mi.) A wetland? Between 1 and 5 (mi.) A subsurface mine? Greater than 5 (mi.) A (non-karst) unstable area? Between 1 and 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 X Yes No

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the 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.

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

<b>Probable Depth</b>	Constituent	Laboratory Analytical Method	Closure	Reclamation
to Groundwater	Constituent	Laboratory Anarytical Method	Criteria*†	Standards*‡
	Chloride (Cl-)	EPA** 300.0 or SM4500 Cl B	10,000	600
Datawan 51 and	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
Between 51 and 75 (ft.)	Gas Range Organics + Diesel Range Organics (GRO+DRO)	EPA SW-846 Method 8015M	1,000	N/A
/3 (IL.)	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

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

<sup>\*\*</sup> Environmental Protection Agency

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

<sup>‡</sup> The NMOCD Reclamation Standards apply only to the top 4' of soil in non-production areas. Subsection 19.15.29.13 D.(1) NMAC.

#### 4.0 BACKGROUND INFORMATION

The Site can be described as an approximate 0.7-acre active tank battery facility with good access via state highways and traditional caliche oilfield access roads. Prior to being acquired by 3R, the tank battery and associated lease was operated by Read & Steven's, Inc. In response to the lease transfer, a historical aerial imagery review was conducted by the NMSLO's realty group, where they identified evidence of a historical release in the north-central portion of the tank battery facility that would require further investigation. Further review suggested impacts may be related to an open reportable release (nPRS0413152570) that had occurred under previous ownership. Review of environmental records indicates that on May 16, 2004, the failure of a dump valve resulted in the release of eight (8) barrels of produced water. Environmental records suggests that by July 26, 2004, limited remediation activities were conducted, including the excavation and disposition of chloride contaminated soil. Based on a review of available records and aerial imagery, it appears limited remediation activities have been conducted, although environmental records are not readily available and the incident remains open.

On April 30, 2025, 3R submitted a *Site Assessment and Proposed Interim Reclamation Plan* to the NMSLO detailing site characteristics and the results of the environmental review including the discovery of the open environmental incident. The *Site Assessment and Proposed Interim Reclamation Plan* proposed the collection of soil samples from select locations in an effort to investigate historical impacts discovered during the historical aerial review along with the open environmental incident. The *Site Assessment and Proposed Interim Reclamation Plan* was approved with the condition that an additional soil sample be collected proximate to the drip bucket on the load line and that sample locations be moved or added based on field observations. A copy of the *Site Assessment and Proposed Interim Reclamation Plan* is provided in Appendix E - Regulatory Correspondence.

#### 5.0 SITE ASSESSMENT

On May 30, 2025, upon conducting the necessary archeological survey, Etech conducted an initial assessment at the Site. During the initial site assessment, a hand-auger was utilized to advance eight (8) investigative soil borings (SP 1 through SP 8) within and proximate to the active tank battery facility. During the advancement of the hand-augered soil bores, soil samples were collected soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit. The hand-augered soil bores were advanced until field test results suggested BTEX, TPH and chloride concentrations were below the NMOCD Reclamation Standard, or the maximum extent practicable given the presence of a resilient rock layer. Photographs of the Site are provided in Appendix C. Cultural Properties Protection Rule Documentation is provided as Appendix F.

Based on field observations and field test data, sixteen (16) delineation soil samples (SP 1 @ SUR, SP 1 @ 1', SP 2 @ SUR, SP 2 @ 2', SP 3 @ SUR, SP 3 @ 2'- R, SP 4 @ SUR, SP 4 @ 2', SP 5 @ SUR, SP 5 @ 1', SP 6 @ SUR, SP 6 @ 1'- R, SP 7 @ SUR, SP 7 @ 2'- R, SP 8 @ SUR and SP 8 @ 2') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of SP 2 @ SUR (1,120 mg/kg GRO+DRO), SP 3 @ SUR (10,300 mg/kg chloride), SP 4 @ 2' 1,020 mg/kg GRO+DRO) and SP 7 @ SUR (11,900 mg/kg). Based on a review of laboratory analytical results it appears limited remediation activities were conducted but they did not meet the objectives of the NMOCD and NMSLO.

site visit, a hand-auger was utilized to collect six (6) soil samples (NH @ S, NH @ 1', EH @ S, EH @ 1', WH @ S and WH @ 1') from the inferred edges of the affected area. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Reclamation Standards in each of the submitted soil samples. A Site and Sample Location Map is provided as Figure 3. Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. Laboratory analytical reports are provided in Appendix D.

#### 6.0 PROPOSED REMEDIAL ACTIVITIES

Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment, 3R Operating, LLC, proposes the following remediation activities designed to advance the Site toward regulatory compliance:

- Excavate impacted material affected above the NMOCD Closure Criteria in the areas characterized by soil samples SP 2 @ SUR, SP 3 @ SUR, SP 4 @ 2' and SP 7 @ SUR. The floor and sidewalls of the excavated areas will be advanced until laboratory analytical results from excavation confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the applicable NMOCD Closure Criteria and/or Reclamation Standards.
- Excavated material will be temporarily stockpiled on-site, atop an impermeable liner pending final disposition at an NMOCD-permitted surface waste facility.
- Upon completion of excavation activities, collect the requisite excavation confirmation soil samples on approximate 200 sq. ft. increments for BTEX, TPH and chloride analysis.
  - It should be noted that in the event excavation activities encroach to within an unsafe distance from active tank battery equipment including but not limited to the above ground storage tanks and heater treaters, deferral characterization soil samples will be collected as necessary.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, backfill the excavated area with locally sourced, non-impacted "like" material. Excavated areas within the affected pasture will be compacted to achieve erosion control, stability and the preservation of surface water flow to the extent practicable. Excavated areas within the active tank battery facility will be backfilled, compacted and contoured to achieve erosion control, stability, prevent ponding and meet the needs of the facility.
- Upon completion of remediation activities, a *Remediation Summary and Soil Closure* (or *Deferral Request*) will be prepared detailing field activities and laboratory analytical results from confirmation soil samples.

Requesting a remediation plan approval with this submission?	X Yes No
Requesting a deferral of remediation closure due date with the approval of this submission?	Yes X No
Have the lateral and vertical extents of contamination been fully delineated?	X Yes No
Was this release entirely contained within a lined containment area?	Yes X No
On what estimated date will (or did) the remediation commence?	9/26/2025
On what date will (or did) the final sampling or liner inspection occur?	10/26/2025
On what date will (or was) the remediation complete(d)?	11/7/2025
What is the total surface area (sq. ft.) in need of or that will eventually be reclaimed?	16,200
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	2,225
What was the total surface area (sq. ft.) that has or will be remediated?	6,400
What was the total volume (cy) that has or will be remediated?	
This remediation utilized the following processes to remediate/reduce contaminants: (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	X Yes No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Yes X No
(In Situ) Soil Vapor Extraction	Yes X No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Yes X No
(In Situ) Biological processing (i.e. Microbes/Fertilizer, etc.)	Yes X No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Yes X No
Ground Water Abatement pursuant to 19.15.30 NMAC	Yes X No
Other (Non-listed remedial process)	Yes X 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.	N/A

#### 7.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

Upon completion of the proposed remedial activities and receipt of laboratory analytical results from confirmation soil samples, affected areas will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted, "like" material emplaced at or near original relative positions. The affected areas will be compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable.

Disturbed areas within the affected pasture will be revegetated with the NMSLO State Coarse seed mix during the first favorable growing season following closure of incident. The seed mix will be certified as weed-free and installed at the prescribed rate utilizing either a seed drill or a broadcaster and harrow. Final reclamation and revegetation of the affected facility will be conducted upon decommissioning and abandonment of the location in accordance with Sections 19.15.29.12 and 19.15.29.13 NMAC.

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.	Yes X No
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?	Yes X No
Requesting a remediation closure approval with this submission?	Yes X No
Requesting a reclamation approval with this submission?	Yes X No
Requesting a restoration complete approval with this submission?	Yes X No
What was the total surface area (sq. ft.) remediated?	0 (To be completed)
What was the total volume (cy) remediated?	0 (To be completed)
What was the total surface area (in square feet) reclaimed?	0 (To be completed)
What was the total volume (in cubic yards) reclaimed?	0 (To be completed)

#### 8.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Site Assessment Summary & Proposed Remediation Plan 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.

#### 9.0 DISTRIBUTION

3R Operating, LLC 20405 State Highway 249 Ste 820 Houston, TX 77070

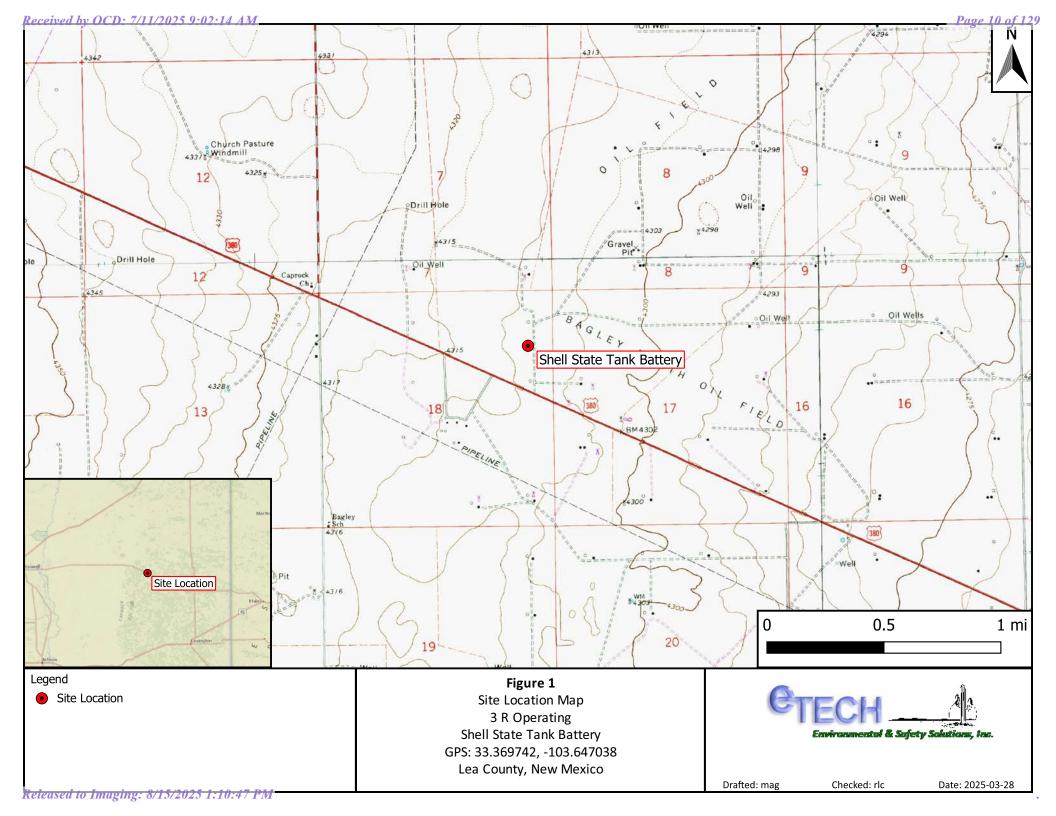
New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1220 South St. Francis Drive Santa Fe, NM 87505

#### Hobbs Field Office

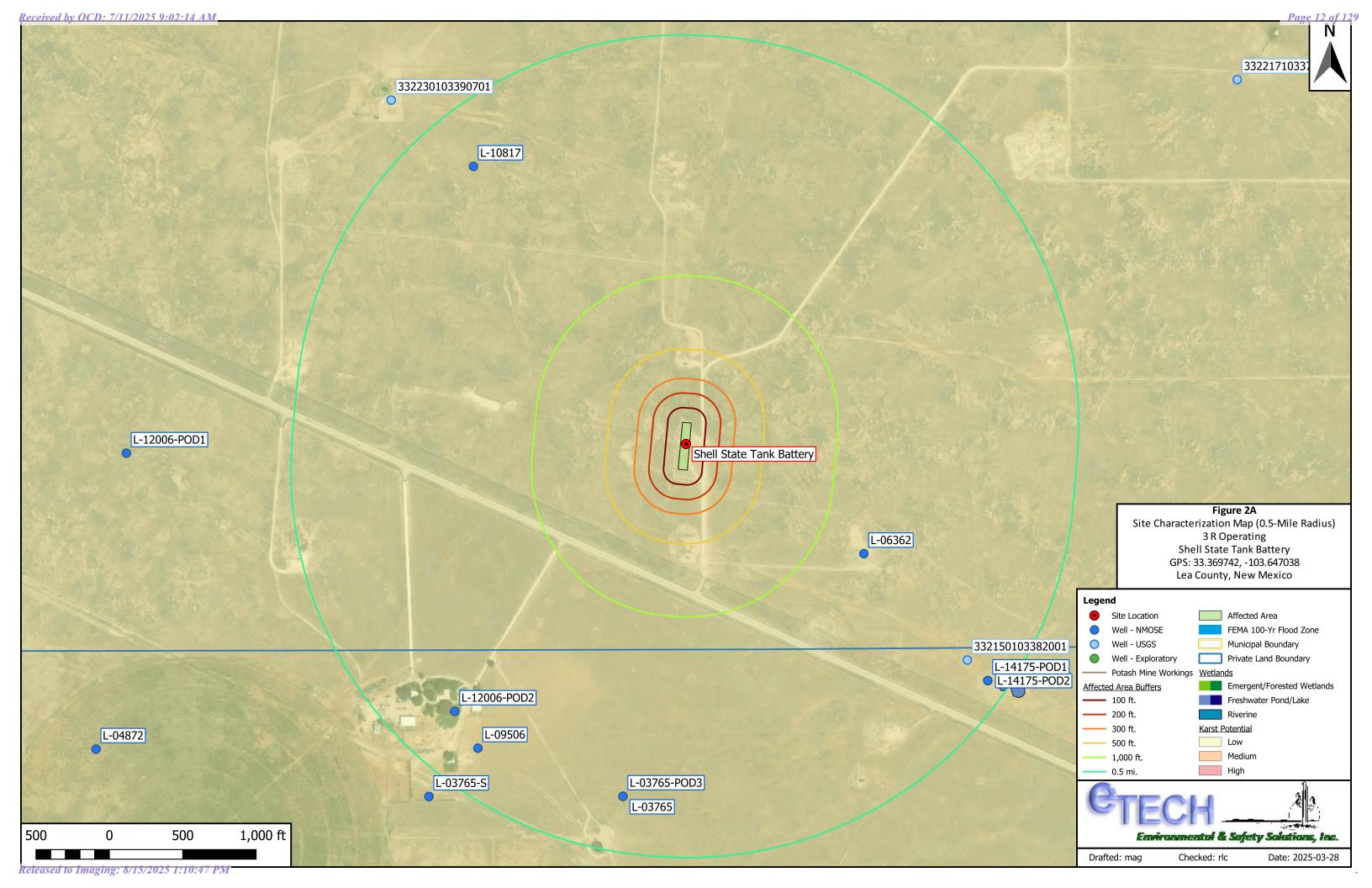
New Mexico State Land Office 2827 North Dal Paso Street Suite 117 Hobbs, NM 88240

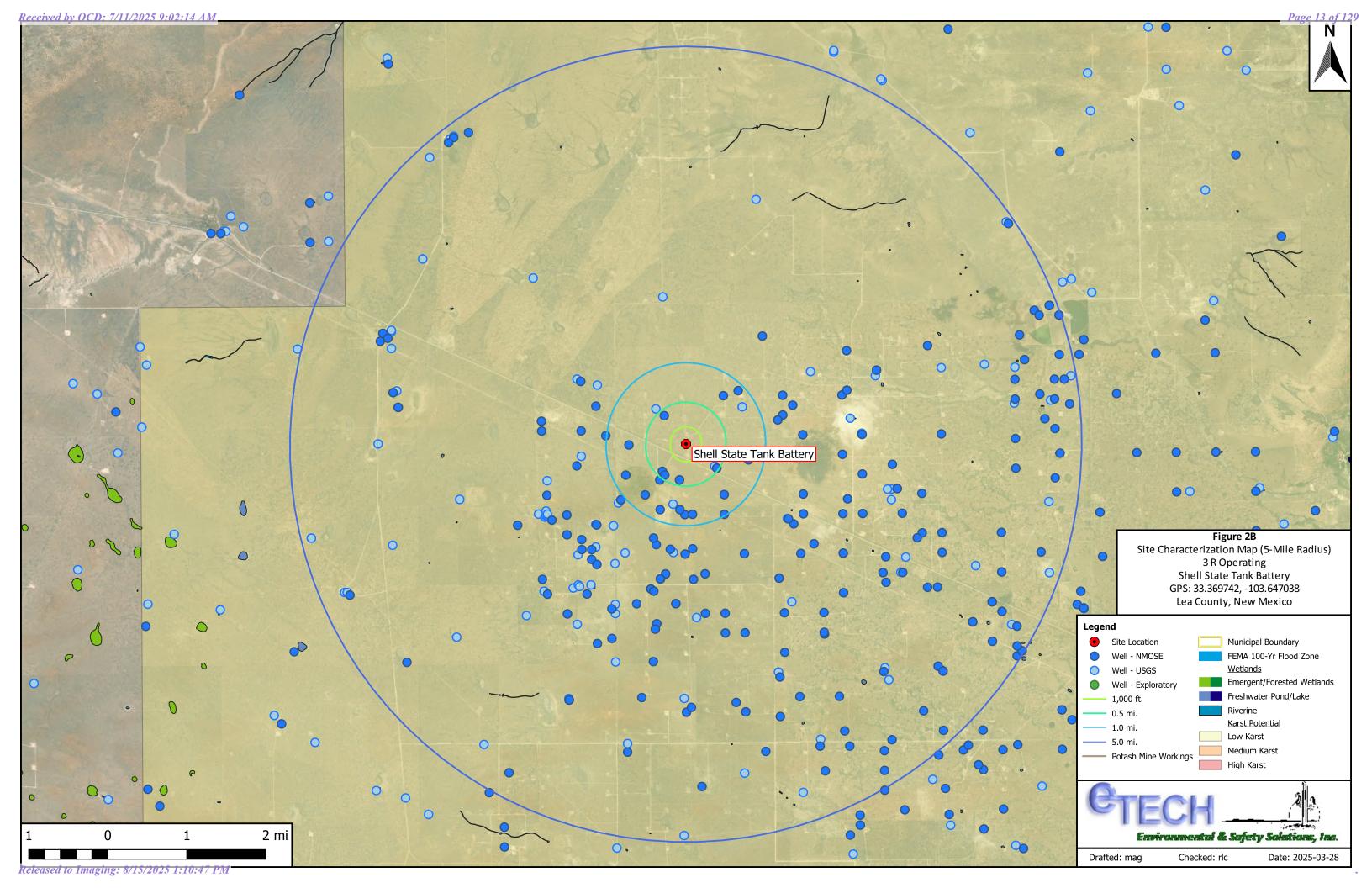
(Electronic Submission)

# Figure 1 Site Location Map



# Figures 2A & 2B Site Characterization Maps





# Figure 3 Site and Sample Location Map

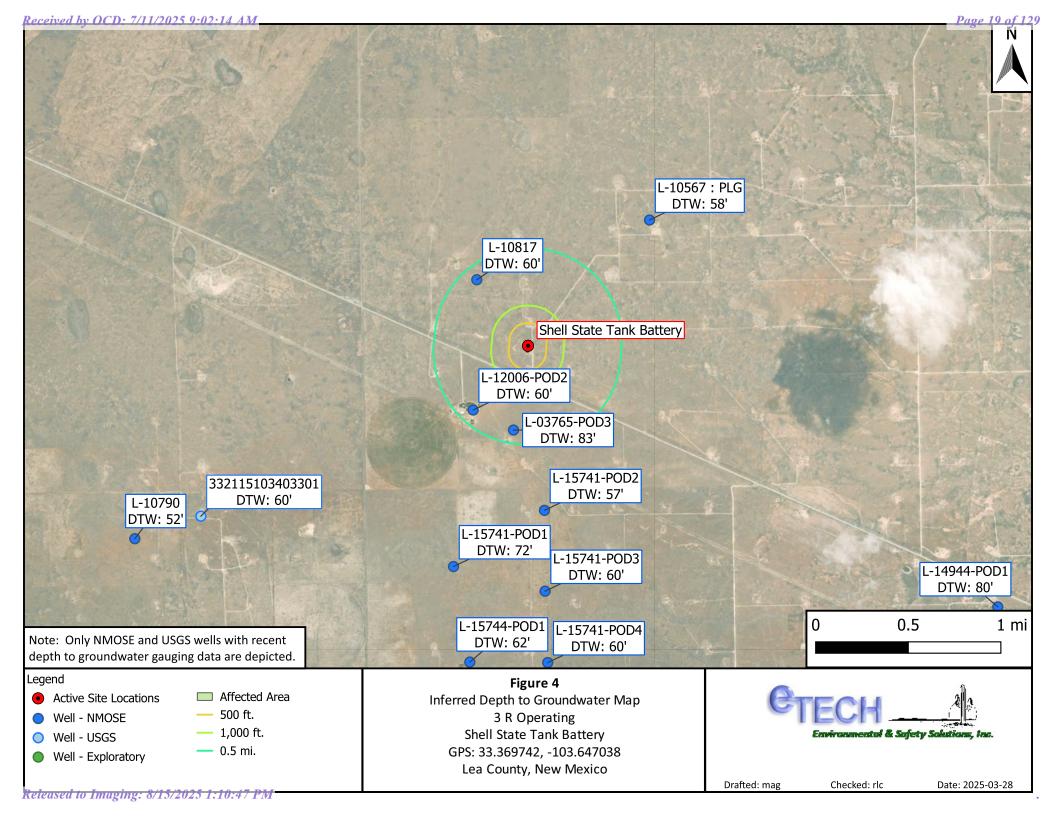


# Table 1 Concentrations of BTEX, TPH & Chloride in Soil

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil
3R Operating, LLC
Shell State Tank Battery
NMOCD Ref. #: nPRS0413152570

NMO	CD Closure C	riteria		10	50	-	-	1,000	-	2,500	10,000
NMOCE	Reclamation	Standard		10	50	-	-	-	-	100	600
				SW 846	6 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
EH @ 1'	6/27/2025	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
EH @ S	6/27/2025	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH @ 1'	6/27/2025	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	16.0
NH @ S	6/27/2025	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	48.0
WH @ 1'	6/27/2025	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
WH@S	6/27/2025	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	< 20.0	<10.0	<30.0	128
SP 1 @ SUR	5/30/2025	0	In-Situ	< 0.050	< 0.300	<10.0	300	300	104	404	144
SP 1 @ 1'	5/30/2025	1	In-Situ	< 0.050	< 0.300	<10.0	209	209	83.8	293	32.0
SP 2 @ SUR	5/30/2025	0	In-Situ	< 0.050	< 0.300	<10.0	1,120	1,120	267	1,390	64.0
SP 2 @ 2'	5/30/2025	2	In-Situ	< 0.050	< 0.300	<10.0	142	142	55.8	198	112
SP 3 @ SUR	5/30/2025	0	In-Situ	< 0.050	< 0.300	<10.0	15.0	15.0	<10.0	15.0	10,300
SP 3 @ 2'- R	5/30/2025	2	In-Situ	< 0.050	< 0.300	<10.0	271	271	59.9	331	3,440
SP 4 @ SUR	5/30/2025	0	In-Situ	< 0.050	< 0.300	<10.0	722	722	210	932	640
SP 4 @ 2'	5/30/2025	2	In-Situ	< 0.050	2.27	81.5	940	1,020	113	1,130	752
SP 5 @ SUR	5/30/2025	0	In-Situ	< 0.050	< 0.300	<10.0	21.8	21.8	29.1	50.9	672
SP 5 @ 1'	5/30/2025	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
SP 6 @ SUR	5/30/2025	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,640
SP 6 @ 1'- R	5/30/2025	1	In-Situ	< 0.050	< 0.300	<10.0	206	206	66.8	273	2,360
SP 7 @ SUR	5/30/2025	0	In-Situ	< 0.050	< 0.300	<10.0	9,820	9,820	2,040	11,900	2,140
SP 7 @ 2' - R	5/30/2025	1	In-Situ	< 0.050	< 0.300	<10.0	248	248	59.6	308	2,130
SP 8 @ SUR	5/30/2025	0	In-Situ	< 0.050	< 0.300	<10.0	186	186	121	307	80.0
SP 8 @ 2'	5/30/2025	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128

# Appendix A Depth to Groundwater Information



### **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 Tws Rng Х Мар Sec L 10817 SW SE 07 11S 33E 625418.0 3693669.0 \*

\* UTM location was derived from PLSS - see Help

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

#### **Water Bearing Stratifications:**

Тор	Bottom	Description
65	122	Other/Unknown

#### **Casing Perforations:**

Тор	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.

3/28/25 12:12 PM MST Point of Diversion Summary

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## STATE ENGINEER OFFICE WELL RECORD



Revised June 1972

				1. GENERAL I	NFORMATIO	1	448	470
(A) Owner o	of well Pea	arce Rand	ch			Owner's		
Street or	r Post Office A	ddress <u>West</u> Im. New N	t Star Mexico	Box 52 88267		<del></del>		
			_				<del></del>	
Well was drille	d under Permit	No. <u>#⊥−</u>	10,817	· · · · · · · · · · · · · · · · · · ·	_ and is located	in the:		
ā	¼ ;	4 <u>SW</u> 4_S	SE ¼ of S	ection 7	Township_	11-S. Range	33-E•	N.M.P.N
b. Tract	No	of Map No	) <b>.</b>	of the	e			
c. Lot N	ło	of Block No.		of the	e <u></u>			
						-		
						-		Gran
						License No	D-421	
							<del>.</del>	
Drilling Began	6/5/98	Com	pleted	6/5/98	_ Type tools $\frac{r}{}$	otary	_ Size of hole.	9 7/8 ir
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completed we							Well	I1
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te Received	06/17/98			OL STATE EN	GINEER ONLY	5	0708	38
	Section 2. PRINCIPAL WATER-BEARING STRATA							

File No. L-10,817
Released to Imaging: 8/15/2025 1:10:47 PM

Use Stock Location No. 11.33.7.4330

Section 7. REMARKS AND ADDITIONAL INFORMATION

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.

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 ion 5, shall be answered as completely an exactly as possible when any well is drilled, repaired or deepened. When this form mused as a plugging record, only Section 1(a) and section 5 need be completed.

# STATE ENGINEER OFFICE WELL RECORD

O.	

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| 15 | 98
| Revised June 1972

#### Section 1. GENERAL INFORMATION

Well was drilled	i under Permit	No. #1-10	817	and	is located	in the:		
•							ne 33-E.	ħ.
							_	
		•						
d. X=	·	_ feet, Y=	· · · · · · · · · · · · · · · · · · ·	feet, N.M. Co	ordinate S	System		
the		· .						
(B) Drilling (	Contractor	Henn's W	a6er Well	Service		_ License No	WD-421	
Address	P.O. Box	x 692 Tat	um, New M	exico 88	267			,- ···
Drilling Began	6/5/98	Comp	leted 6/5	/98 Typ	e tools ro	tary	Size of hole	9 7
Completed wel						•		
Completed wei	118 1 8/			•			of well	
Depth	in Feet	Sect: Thickness	· 1	<u> </u>			Ratimate	i Yiel
From	То	in Feet	Descr	ECORD OF MUDDING AND CEMENTING  Sacks Of Mud Of Cement Method of Placement  ection 5. PLUGGING RECORD  No. Depth in Feet Cubic Feet Of Cement Of C				
65	122	57		Sand			40 GI	M
		<u> </u>						
·								•
					<del></del>	· · · · · · · · · · · · · · · · · · ·		
<u> </u>		<u> </u>						
Diameter	Pounds	Threads		····	T		Perf	oratio
(inches)	per foot	per in.	Тор Е			Type of Sho	e <del> </del>	
5½"	• 250	T&C		12	25	none	65	1
							24 - 1 10	
		Sectio	n 4. RECORD O	F MUDDING A	ND CEME	NTING		·
Dep th From	in Feet To	Hole Diameter	Sacks	Cubic F	cet		d of Placement	· — ·
				Oi Come				
	- 1					<del></del>		
			· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·	<u> </u>
			· · · · · · · · · · · · · · · · · · ·				·	
			Section 5, I	LUGGING RE	CORD			
	ctor							
Plugging Contra					No.			
Address Plugging Method		<del> </del>	<u>-</u>	<u> </u>	1			
	ed	4					<u> </u>	
Address Plugging Method Date Well Plugg	ed	Stata Finai-	eer Danrasantati					
Address ———————————————————————————————————	ed	State Engin	eer Representati	ve				

Section 7. REMARKS AND ADDITIONAL INFORMATION

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.

INSTRUCTIONS: This form should executed in triplicate, preferably typewritten is 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.

### **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 Rng Мар Sec Tws L 12006 POD2 SE NW NW 18 11S 33E 625386.5 3692537.3 \* UTM location was derived from PLSS - see Help **Driller License: 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: Shallow Log File Date: 2008-09-04 **PCW Rcv Date:** Source: Pump Type: **Pipe Discharge Size: Estimated Yield:** 

#### **Casing Perforations:**

6.63

**Depth Well:** 

Тор	Bottom
60	152

Casing Size:

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.

155

**Depth Water:** 

60

3/28/25 12:10 PM MST Point of Diversion Summary

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OSE FILE NUMBER
For OSE Use Only

9/3/08

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

i. PERMIT HOLDER(S)			
Name: PEARCE TRUST	Name:		
Name: PEARCE TRUST Address: 1717 JACKSON City: PECOS	Address:		
City: PECOS State: TX Zip: 79772	City:State:Zip:		
Phone:	Phone:		
Contact:			
Contact Phone:			
2. STATE ENGINEER REFERENCE NUMBE File # <u>L-12006</u> , Well	CRS: #1		
3. LOCATION OF WELL (The Datum Is Assun	ned To Be WGS 84 Unless Otherwise Specified)		
atitude: N 33° Deg 21	Min 53.16 Sec		
Longitude: N 33° Deg 21  Longitude: W 103° Deg 39  (Enter Lat/Long To At	Min 8.05 Sec		
(Enter Lat/Long To At Datum If Not WGS 84: SE <u>夫 NW夫 NW大 SE</u>	Least 1/10 <sup>th</sup> Of A Second) .C.18,T11-S,R33-EAST		
4. DRILLING CONTRACTOR License Number: <u>WD 421</u> Name: GLENN'S WATER WELL SERV	ICE, Work Phone: 505-398-2424		
Orill Rig Serial Number: 0582		•	•
		7008	ROS
ist The Name Of Each Drill Rig Supervisor That Process: CORKY GLENN		, Жр	WELL CEN
		<i>-</i>	
		Ti	₹ 3.
		-53	૽ૠૅેલ
			. <b>≚</b> ±
			. SE
			- `
5. DRILLANG RECORD	·		
Drilling Began: $8/27/08$ ; Completed: $8$	3/27/08; Drilling Method ROTARY MU	D;	I
Diameter Of Bore Hole:(in);			
Fotal Depth Of Well: 155	(fi):		
Completed Well Is (Circle One) Shallow Artesia			
Depth To Water First Encountered: 60 '			
Depth To Water Upon Completion Of Well: <u>60</u>	<u>)                                    </u>		
FRN Number: 48546	Line	~ ~ ~	
FRN Number: <u>U                                   </u>	File Number: 1-12	<del>≠===</del>	10
corn. wi-20 May W	L-12	200	6
p	age 1 of 4		
	O(U)		

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For OSE Use Only		

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

		WELL REC	OKO ana 1	)KII,I)I	NG LOG			
6. RECORD				т		7		17-12
Diameter (inches)	Pounds (per ft.)	Threads (per inch)	Depth (feet)	Top	ength to Bottom (feet)	Type Sho		Perforations (from to)
10 3/4	支 WELL	PE		21	·	NONE		NONE
6 5/8	.188	PE	ļ	152	<u>.</u>	NONE		60-152
<u> </u>								
		·						
· · · · · · · · · · · · · · · · · · ·								
		·						
								·
L								
N TRECORD	OF MUDDING	AND CEME	NTING					
PROBLEM (Feet)  1	1	lole	Mud Use (# of sack		Cem (cubic		1	Method of Placement
m 0-21	14_3		(" 01 3000	3/	14 SA		PO	
D 0 21		/-4			14 01	TORD	10	OK
		·····	···		<del>.</del>			
<u> </u>			-			···		
<del> </del>								<del></del>
-								
<del></del>			·				\ <del></del>	
					. 1. 5	·	J., .,, <u>.</u> .	
Trn Number:			ot Write Bel	ow inis	F Line	ile Numbo	er:	
Form: wr-20 l	May 07		page 2 of	`4				

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## NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

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

Dep (fee From		Thickness (Feet)	For Water Bearing Strata Enter The Estimated Yield in GPM	Color and Type of Material Encountered	
0	2_	2		SOIL	
2	28	26		CALECHE	
28	_6.0	32		SAND	
_60_	132	72		WATER SAND	
132	138	6		GRAVEL AND CLAY	
138	150	12		SANDY CLAY	
150	153	3		WHITE CLAY	
_1.5.3	_1.5.5	2	d	RED CLAY	
		Page 4 111 - 11 - 11 - 11 - 11 - 11 - 11 -			_
+					
				7008	ROS
				SEP	
				l) -	NGINE
				ס	¥ R
				22	W MEXICO
Znan M	athad I	lend Ta Fetir	nate Yield:		

Do Not Write Below This Line

Trn Number:
File Number:

Form wr-20 May 07

page 3 of 4

OSE FILE NUMBER	
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## NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

). ADDITIONAL STATEMEN	TS OR EXPLAN	lations:		
DRILLED 14 3/4"	HOLE TO 2	1' AND S	ET 21'	OF 10 3/4"
CASING_AND_CEME	NTED TO TO	P OF WEL	.L	**************************************
				-
				The second secon
				*******
				***************************************
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· · · · · · · · · · · · · · · · · · ·	<del></del>	<del> </del>		
: = <u>-</u>				
<u>。</u>		·····		
nerundersigned hereby certifies decorrect-record of the above does this well record with the Officingletion of the well drilling.	escribed bore hole	. The undersign	ied further cer	tifies that he or she v
loke blem		9/3/0	8	
riller	<del></del>	(mm/dd/year)	<del></del>	
	Do Not Wr	ite Below This I	ine	
rn Number:			File N	lumber:
orm wr-20 May 07	pag	ge 4 of 4		

### **Point of Diversion Summary**

		•	1=NW 2=NE 3 are smallest to					NAD83 UTM	in meters	
Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Υ	Мар
	L 03765 POD3	SW	NE	SE	18	11S	33E	625737.0	3692363.0	•

\* UTM location was derived from PLSS - see Help

Driller License:	1058	Driller Company:	KEY'S DRILLING & PUMP SERVICE		
Driller Name:	KEY, CLINTON	N			
Drill Start Date:	2011-10-20	Drill Finish Date:	2011-10-28	Plug Date:	
Log File Date:	2011-11-16	PCW Rcv Date:		Source:	Shallow
Duman Trenas					
Pump Type:		Pipe Discharge Size:		Estimated Yield:	

#### **Water Bearing Stratifications:**

Тор	Bottom	Description
83	90	Sandstone/Gravel/Conglomerate
90	120	Sandstone/Gravel/Conglomerate
130	155	Sandstone/Gravel/Conglomerate

### **Casing Perforations:**

Тор	Bottom
45	125

#### **Meter Information**

Meter Number:	17331	Meter Make:	MCCROMETER
Meter Serial Number:	18-03392-06	Meter Multiplier:	100.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Gallons	Reading Frequency:	Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2012-01-01	2012	0.000	Α	RPT		0.000	
2012-04-01	2012	163274.000	А	RPT		50.107	
2012-07-01	2012	289711.000	А	RPT		38.802	
2012-12-03	2012	589764.000	Α	RPT		92.083	
2013-04-08	2013	892561.000	Α	RPT		92.925	
2013-11-08	2013	169906.000	R	RPT	Meter Rollover	85.114	
2014-04-01	2014	326143.000	Α	RPT		47.947	
2014-07-01	2014	360719.000	Α	RPT		10.611	
2014-10-01	2014	372652.000	Α	RPT		3.662	
2015-01-01	2015	373282.000	Α	RPT		0.193	
2015-04-01	2015	469793.000	Α	RPT		29.618	
2015-07-01	2015	586490.000	Α	RPT		35.813	
2015-10-01	2015	597347.000	Α	RPT		3.332	
2016-01-01	2016	605145.000	Α	RPT		2.393	
2016-07-01	2016	642600.000	Α	RPT		11.495	
2016-10-01	2016	742827.000	Α	RPT		30.759	
2017-01-02	2017	769841.000	А	RPT		8.290	
2017-04-01	2017	801270.000	Α	RPT		9.645	
2018-01-01	2018	801270.000	Α	ар		0.000	
2018-04-13	2018	0.000	Α	ар		0.000	
2018-07-01	2018	150468.000	Α	ар		46.177	
2019-01-01	2019	337273.000	Α	ар		57.328	
2019-04-01	2019	444952.000	Α	ар		33.045	
2019-07-01	2019	535886.000	Α	ар		27.907	
2020-04-01	2020	730920.000	Α	ар		59.854	
2020-07-01	2020	952059.000	Α	dd		67.865	
2020-10-01	2020	133020.000	R	dd	Meter Rollover	55.535	
2021-01-01	2020	203424.000	Α	dd		21.606	
2021-04-01	2021	229906.000	Α	dd		8.127	

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2021-07-01	2021	275780.000	А	dd		14.078	
2021-10-01	2021	426379.000	А	dd		46.217	
2022-01-01	2021	490297.000	А	dd		19.616	
2022-04-01	2022	509551.000	А	dd		5.909	
2022-07-01	2022	666601.000	А	dd		48.197	
2022-10-01	2022	764835.000	А	dd		30.147	
2023-01-01	2022	805862.000	А	dd		12.591	
2023-08-13	2023	36378.000	R	jb	Meter Rollover	70.743	

#### **YTD Meter Amounts:**

Year	Amount
2012	180.992
2013	178.039
2014	62.220
2015	68.956
2016	44.647
2017	17.935
2018	46.177
2019	118.280
2020	204.860
2021	88.038
2022	96.844
2023	70.743

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3/28/25 12:34 PM MST Point of Diversion Summary

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# Appendix B Field Data & Soil Profile Logs



### **Soil Profile**

Environmental of Sujety Solutions				Date:	7/2/2025	
Project: Whitten SV						
Project Number:	21343	Latitude:	32.574814	Longitude:	-103.536446	
Depth (ft. bgs)			Des	scription		
1				orted Fill		
2				vn Topsoil		
3				Rock/Calcrete		
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
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20 21						
22						
23						
24						
25						
26						
 27						
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						



# Sample Log

Date:				
		to the least		

Project: Shell State Tank Battery

Project Number: 22036 Latitude: 33.369742 Longitude: -103.647038

Sample ID	PID/Odor	Chloride Conc.	GPS
SP-16 Thr		172	
RP-101		NID	
5P-2054r	Yes	NID	
5P-2 @1'	Ye5	240	
512-2 021	Mone	172	
SP-3 @sur	1/05	2460	
5P-3 @1'	1/05	6,120	
517-3 02'	None	2,516 Refusal	
SP-4 Osur	Yes	1,672	
58-601	Yes	1372	
SP-602'	Move	1372 Refusal	
SP-70sur	Yc5	1908	
512-701	light	1,472	
517-102	light	1188 ReFusal	
513-905ur	705	828	
SP-961	None	704 Recusal	
SP-9@2'	7.5	704 ReFusal	
SPECIAL	1/0	7/0	
SP-50 Suc	1/eS	768 £592	
SP-501	More	11/1)	
50 201		NIN	
21-061		/4//	
		Tost Toolsh - TT 41 @ 44	Posamples - SP #1 @ 5h or SW #1h

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

### Appendix C Photographic Log

### Photographic Log

Photo Number:

Photo Direction: Northwest

**Photo Description:** 

View of the northern portion of the affected tank battery.



**Photo Number:** 

2

**Photo Direction:** 

Southwest

**Photo Description:** 

View of the central portion of the affected tank battery.



### Photographic Log

**Photo Number:** 

3

**Photo Direction:** South

**Photo Description:** 

View of the central portion of the affected tank battery.



**Photo Number:** 

4

Photo Direction:

North

**Photo Description:** 

View of the northern portion of the affected tank battery.



### Photographic Log

**Photo Number:** 

5

**Photo Direction:** South

**Photo Description:** 

View of the northern portion of the affected tank battery.



**Photo Number:** 

6

**Photo Direction:** 

North

**Photo Description:** 

View of the northern portion of the affected tank battery.



### Appendix D Laboratory Analytical Reports



June 06, 2025

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SHELL STATE TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/02/25 14:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Applyand By 14

06/02/2025

06/06/2025

Sampling Date: 05/30/2025

Reported:

Received:

DTEV 0021D

Sampling Type: Soil

Project Name: SHELL STATE TANK BATTERY Project Number:

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

22036

Project Location: 3R OP 32.369742, -103.647038

### Sample ID: SP 1 @ SUR (H253271-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2025	ND	2.06	103	2.00	3.61	
Toluene*	<0.050	0.050	06/02/2025	ND	2.09	105	2.00	4.26	
Ethylbenzene*	<0.050	0.050	06/02/2025	ND	2.05	102	2.00	4.01	
Total Xylenes*	<0.150	0.150	06/02/2025	ND	6.03	100	6.00	4.55	
Total BTEX	<0.300	0.300	06/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/03/2025	ND	480	120	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2025	ND	191	95.4	200	1.00	
DRO >C10-C28*	300	10.0	06/03/2025	ND	183	91.7	200	1.57	
EXT DRO >C28-C36	104	10.0	06/03/2025	ND					
Surrogate: 1-Chlorooctane	73.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	71.4	% 40.6-15.	3						

### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene



### Analytical Results For:

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

Applyzod By: 14

Received: 06/02/2025

Sampling Date:

05/30/2025 Soil

Reported: Project Name: 06/06/2025

Sampling Type:

Cool & Intact

RTFY 8021R

SHELL STATE TANK BATTERY

ma/ka

Sampling Condition: Sample Received By:

Alyssa Parras

Project Number: Project Location: 22036

3R OP 32.369742, -103.647038

Sample ID: SP 1 @ 1' (H253271-02)

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2025	ND	2.06	103	2.00	3.61	
Toluene*	<0.050	0.050	06/02/2025	ND	2.09	105	2.00	4.26	
Ethylbenzene*	<0.050	0.050	06/02/2025	ND	2.05	102	2.00	4.01	
Total Xylenes*	<0.150	0.150	06/02/2025	ND	6.03	100	6.00	4.55	
Total BTEX	<0.300	0.300	06/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/03/2025	ND	480	120	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2025	ND	191	95.4	200	1.00	
DRO >C10-C28*	209	10.0	06/03/2025	ND	183	91.7	200	1.57	
EXT DRO >C28-C36	83.8	10.0	06/03/2025	ND					
Surrogate: 1-Chlorooctane	77.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	72.6	% 40.6-15	3						

### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



### Analytical Results For:

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

Fax To:

Received: 06/02/2025 Sampling Date: 05/30/2025

Reported: 06/06/2025 Sampling Type: Soil

Project Name: SHELL STATE TANK BATTERY Sampling Condition: Cool & Intact Project Number: 22036 Sample Received By: Alyssa Parras

Project Location: 3R OP 32.369742, -103.647038

### Sample ID: SP 2 @ SUR (H253271-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2025	ND	2.06	103	2.00	3.61	
Toluene*	<0.050	0.050	06/02/2025	ND	2.09	105	2.00	4.26	
Ethylbenzene*	<0.050	0.050	06/02/2025	ND	2.05	102	2.00	4.01	
Total Xylenes*	<0.150	0.150	06/02/2025	ND	6.03	100	6.00	4.55	
Total BTEX	<0.300	0.300	06/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500CI-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	06/03/2025	ND	480	120	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2025	ND	191	95.4	200	1.00	
DRO >C10-C28*	1120	10.0	06/03/2025	ND	183	91.7	200	1.57	
EXT DRO >C28-C36	267	10.0	06/03/2025	ND					
Surrogate: 1-Chlorooctane	74.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	91.9	% 40.6-15	3						

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Celey D. Keene



### Analytical Results For:

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

Fax To:

Received: 06/02/2025 Sampling Date: 05/30/2025

Reported: 06/06/2025 Sampling Type: Soil

Project Name: SHELL STATE TANK BATTERY Sampling Condition: Cool & Intact Project Number: 22036 Sample Received By: Alyssa Parras

Project Location: 3R OP 32.369742, -103.647038

### Sample ID: SP 2 @ 2' (H253271-04)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2025	ND	2.06	103	2.00	3.61	
Toluene*	<0.050	0.050	06/02/2025	ND	2.09	105	2.00	4.26	
Ethylbenzene*	<0.050	0.050	06/02/2025	ND	2.05	102	2.00	4.01	
Total Xylenes*	<0.150	0.150	06/02/2025	ND	6.03	100	6.00	4.55	
Total BTEX	<0.300	0.300	06/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/03/2025	ND	480	120	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2025	ND	191	95.4	200	1.00	
DRO >C10-C28*	142	10.0	06/03/2025	ND	183	91.7	200	1.57	
EXT DRO >C28-C36	55.8	10.0	06/03/2025	ND					
Surrogate: 1-Chlorooctane	80.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	76.0	% 40.6-15	3						

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### Analytical Results For:

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

Analyzed By: JH

Received: 06/02/2025

Sampling Date: 05/30/2025

Reported: Project Name:

BTEX 8021B

06/06/2025

Sampling Type: Soil

SHELL STATE TANK BATTERY Project Number:

Sampling Condition:

Cool & Intact

Project Location:

22036 3R OP 32.369742, -103.647038

mg/kg

Sample Received By:

Alyssa Parras

### Sample ID: SP 3 @ SUR (H253271-05)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2025	ND	2.06	103	2.00	3.61	
Toluene*	<0.050	0.050	06/02/2025	ND	2.09	105	2.00	4.26	
Ethylbenzene*	<0.050	0.050	06/02/2025	ND	2.05	102	2.00	4.01	
Total Xylenes*	<0.150	0.150	06/02/2025	ND	6.03	100	6.00	4.55	
Total BTEX	<0.300	0.300	06/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10300	16.0	06/03/2025	ND	480	120	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2025	ND	191	95.4	200	1.00	
DRO >C10-C28*	15.0	10.0	06/03/2025	ND	183	91.7	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	06/03/2025	ND					
Surrogate: 1-Chlorooctane	82.9	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	76.3	% 40.6-15	3						

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Celey D. Keene



### Analytical Results For:

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

Fax To:

Received: 06/02/2025 Sampling Date: 05/30/2025

Reported: 06/06/2025 Sampling Type: Soil

Project Name: SHELL STATE TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 22036 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: 3R OP 32.369742, -103.647038

### Sample ID: SP 3 @ 2'- R (H253271-06)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2025	ND	2.06	103	2.00	3.61	
Toluene*	<0.050	0.050	06/02/2025	ND	2.09	105	2.00	4.26	
Ethylbenzene*	<0.050	0.050	06/02/2025	ND	2.05	102	2.00	4.01	
Total Xylenes*	<0.150	0.150	06/02/2025	ND	6.03	100	6.00	4.55	
Total BTEX	<0.300	0.300	06/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	06/03/2025	ND	480	120	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2025	ND	191	95.4	200	1.00	
DRO >C10-C28*	271	10.0	06/03/2025	ND	183	91.7	200	1.57	
EXT DRO >C28-C36	59.9	10.0	06/03/2025	ND					
Surrogate: 1-Chlorooctane	80.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	77.9	% 40.6-15	3						

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Celey & Keene



### Analytical Results For:

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

Fax To:

Received: 06/02/2025 Sampling Date: 05/30/2025

Reported: 06/06/2025 Sampling Type: Soil

Project Name: SHELL STATE TANK BATTERY Sampling Condition: Cool & Intact Project Number: 22036 Sample Received By: Alyssa Parras

Project Location: 3R OP 32.369742, -103.647038

### Sample ID: SP 4 @ SUR (H253271-07)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2025	ND	2.06	103	2.00	3.61	
Toluene*	<0.050	0.050	06/02/2025	ND	2.09	105	2.00	4.26	
Ethylbenzene*	<0.050	0.050	06/02/2025	ND	2.05	102	2.00	4.01	
Total Xylenes*	<0.150	0.150	06/02/2025	ND	6.03	100	6.00	4.55	
Total BTEX	<0.300	0.300	06/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	06/03/2025	ND	480	120	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2025	ND	191	95.4	200	1.00	
DRO >C10-C28*	722	10.0	06/03/2025	ND	183	91.7	200	1.57	
EXT DRO >C28-C36	210	10.0	06/03/2025	ND					
Surrogate: 1-Chlorooctane	61.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	66.7	% 40.6-15	3						

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Celey D. Keene



### Analytical Results For:

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

Received: 06/02/2025 Reported:

Sampling Date: 06/06/2025 Sampling Type:

Project Name: SHELL STATE TANK BATTERY 22036

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

05/30/2025

Soil

Project Number:

Project Location: 3R OP 32.369742, -103.647038

### Sample ID: SP 4 @ 2' (H253271-08)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2025	ND	2.06	103	2.00	3.61	
Toluene*	<0.050	0.050	06/02/2025	ND	2.09	105	2.00	4.26	GC-NC
Ethylbenzene*	<0.050	0.050	06/02/2025	ND	2.05	102	2.00	4.01	GC-NC
Total Xylenes*	2.27	0.150	06/02/2025	ND	6.03	100	6.00	4.55	GC-NC1
Total BTEX	2.27	0.300	06/02/2025	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	195	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	06/03/2025	ND	480	120	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	81.5	10.0	06/03/2025	ND	191	95.4	200	1.00	
DRO >C10-C28*	940	10.0	06/03/2025	ND	183	91.7	200	1.57	
EXT DRO >C28-C36	113	10.0	06/03/2025	ND					
Surrogate: 1-Chlorooctane	84.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	84.8	% 40.6-15	3						

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Celey D. Keine



### Analytical Results For:

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

Fax To:

Received: 06/02/2025 Sampling Date: 05/30/2025

Reported: 06/06/2025 Sampling Type: Soil

Project Name: SHELL STATE TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 22036 Sample Received By: Alyssa Parras

Project Location: 3R OP 32.369742, -103.647038

### Sample ID: SP 5 @ SUR (H253271-09)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2025	ND	2.06	103	2.00	3.61	
Toluene*	<0.050	0.050	06/02/2025	ND	2.09	105	2.00	4.26	
Ethylbenzene*	<0.050	0.050	06/02/2025	ND	2.05	102	2.00	4.01	
Total Xylenes*	<0.150	0.150	06/02/2025	ND	6.03	100	6.00	4.55	
Total BTEX	<0.300	0.300	06/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	06/03/2025	ND	480	120	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2025	ND	191	95.4	200	1.00	
DRO >C10-C28*	21.8	10.0	06/03/2025	ND	183	91.7	200	1.57	
EXT DRO >C28-C36	29.1	10.0	06/03/2025	ND					
Surrogate: 1-Chlorooctane	71.2	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	62.2	% 40.6-15	3						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

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

Fax To:

Received: 06/02/2025 Sampling Date: 05/30/2025

Reported: 06/06/2025 Sampling Type: Soil

Project Name: SHELL STATE TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 22036 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 3R OP 32.369742, -103.647038

mg/kg

### Sample ID: SP 5 @ 1' (H253271-10)

BTEX 8021B

	9/	9	7.1.4.7.2						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2025	ND	2.06	103	2.00	3.61	
Toluene*	<0.050	0.050	06/02/2025	ND	2.09	105	2.00	4.26	
Ethylbenzene*	<0.050	0.050	06/02/2025	ND	2.05	102	2.00	4.01	
Total Xylenes*	<0.150	0.150	06/02/2025	ND	6.03	100	6.00	4.55	
Total BTEX	<0.300	0.300	06/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	06/03/2025	ND	480	120	400	0.00	
TPH 8015M	mg,	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2025	ND	191	95.4	200	1.00	
DRO >C10-C28*	<10.0	10.0	06/03/2025	ND	183	91.7	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	06/03/2025	ND					
Surrogate: 1-Chlorooctane	77.6	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	68.2	% 40.6-15	3						

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Celey D. Keene



### Analytical Results For:

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

Analyzed By: JH

Received: 06/02/2025 Reported: 06/06/2025 Sampling Date: 05/30/2025 Sampling Type: Soil

Project Name:

BTEX 8021B

SHELL STATE TANK BATTERY

mg/kg

Sampling Condition: Cool & Intact

Project Number: 22036 Sample Received By: Alyssa Parras

Project Location: 3R OP 32.369742, -103.647038

Sample ID: SP 6 @ SUR (H253271-11)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2025	ND	2.06	103	2.00	3.61	
Toluene*	<0.050	0.050	06/02/2025	ND	2.09	105	2.00	4.26	
Ethylbenzene*	<0.050	0.050	06/02/2025	ND	2.05	102	2.00	4.01	
Total Xylenes*	<0.150	0.150	06/02/2025	ND	6.03	100	6.00	4.55	
Total BTEX	<0.300	0.300	06/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	16.0	06/03/2025	ND	480	120	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2025	ND	191	95.4	200	1.00	
DRO >C10-C28*	<10.0	10.0	06/03/2025	ND	183	91.7	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	06/03/2025	ND					
Surrogate: 1-Chlorooctane	65.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	54.8	% 40.6-15	•						

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Celey D. Keene



### Analytical Results For:

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

Fax To:

Received: 06/02/2025 Sampling Date: 05/30/2025

Reported: 06/06/2025 Sampling Type: Soil

Project Name: SHELL STATE TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 22036 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: 3R OP 32.369742, -103.647038

### Sample ID: SP 6 @ 1'- R (H253271-12)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2025	ND	2.06	103	2.00	3.61	
Toluene*	<0.050	0.050	06/02/2025	ND	2.09	105	2.00	4.26	
Ethylbenzene*	<0.050	0.050	06/02/2025	ND	2.05	102	2.00	4.01	
Total Xylenes*	<0.150	0.150	06/02/2025	ND	6.03	100	6.00	4.55	
Total BTEX	<0.300	0.300	06/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	06/03/2025	ND	480	120	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2025	ND	191	95.4	200	1.00	
DRO >C10-C28*	206	10.0	06/03/2025	ND	183	91.7	200	1.57	
EXT DRO >C28-C36	66.8	10.0	06/03/2025	ND					
Surrogate: 1-Chlorooctane	75.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	70.6	% 40.6-15	3						

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Celey D. Keene



### Analytical Results For:

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

Fax To:

Received: 06/02/2025 Sampling Date: 05/30/2025

Reported: 06/06/2025 Sampling Type: Soil

Project Name: SHELL STATE TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 22036 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: 3R OP 32.369742, -103.647038

### Sample ID: SP 7 @ SUR (H253271-13)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2025	ND	2.06	103	2.00	3.61	
Toluene*	<0.050	0.050	06/02/2025	ND	2.09	105	2.00	4.26	
Ethylbenzene*	<0.050	0.050	06/02/2025	ND	2.05	102	2.00	4.01	
Total Xylenes*	<0.150	0.150	06/02/2025	ND	6.03	100	6.00	4.55	
Total BTEX	<0.300	0.300	06/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2140	16.0	06/03/2025	ND	368	92.0	400	16.0	QM-07
TPH 8015M	mg,	/kg	Analyze	ed By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2025	ND	191	95.4	200	1.00	
DRO >C10-C28*	9820	10.0	06/03/2025	ND	183	91.7	200	1.57	
EXT DRO >C28-C36	2040	10.0	06/03/2025	ND					
Surrogate: 1-Chlorooctane	77.9	% 44.4-14	15						
Surrogate: 1-Chlorooctadecane	497	% 40.6-15	3						

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Celey D. Keene



### Analytical Results For:

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

Fax To:

Received: 06/02/2025 Sampling Date: 05/30/2025

Reported: 06/06/2025 Sampling Type: Soil

Project Name: SHELL STATE TANK BATTERY Sampling Condition: Cool & Intact Project Number: 22036 Sample Received By: Alyssa Parras

Project Location: 3R OP 32.369742, -103.647038

### Sample ID: SP 7 @ 2' - R (H253271-14)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2025	ND	2.06	103	2.00	3.61	
Toluene*	<0.050	0.050	06/02/2025	ND	2.09	105	2.00	4.26	
Ethylbenzene*	<0.050	0.050	06/02/2025	ND	2.05	102	2.00	4.01	
Total Xylenes*	<0.150	0.150	06/02/2025	ND	6.03	100	6.00	4.55	
Total BTEX	<0.300	0.300	06/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2130	16.0	06/03/2025	ND	368	92.0	400	16.0	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2025	ND	191	95.4	200	1.00	
DRO >C10-C28*	248	10.0	06/03/2025	ND	183	91.7	200	1.57	
EXT DRO >C28-C36	59.6	10.0	06/03/2025	ND					
Surrogate: 1-Chlorooctane	75.5	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	71.7	% 40.6-15	3						

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### Analytical Results For:

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

Fax To:

Received: 06/02/2025 Sampling Date: 05/30/2025

Reported: 06/06/2025 Sampling Type: Soil

Project Name: SHELL STATE TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 22036 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: 3R OP 32.369742, -103.647038

### Sample ID: SP 8 @ SUR (H253271-15)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2025	ND	2.06	103	2.00	3.61	
Toluene*	<0.050	0.050	06/02/2025	ND	2.09	105	2.00	4.26	
Ethylbenzene*	<0.050	0.050	06/02/2025	ND	2.05	102	2.00	4.01	
Total Xylenes*	<0.150	0.150	06/02/2025	ND	6.03	100	6.00	4.55	
Total BTEX	<0.300	0.300	06/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/03/2025	ND	368	92.0	400	16.0	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2025	ND	191	95.4	200	1.00	
DRO >C10-C28*	186	10.0	06/03/2025	ND	183	91.7	200	1.57	
EXT DRO >C28-C36	121	10.0	06/03/2025	ND					
Surrogate: 1-Chlorooctane	78.3	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	71.3	% 40.6-15	3						

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### Analytical Results For:

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

Analyzed By: JH

Received: 06/02/2025

Sampling Date:

05/30/2025

Reported:

06/06/2025

Sampling Type:

Soil

Project Name:

BTEX 8021B

SHELL STATE TANK BATTERY

mg/kg

Sampling Condition: Sample Received By: Cool & Intact Alyssa Parras

Project Number: Project Location: 22036

3R OP 32.369742, -103.647038

Sample ID: SP 8 @ 2' (H253271-16)

DILX OUZID	11197	Ng .	Allulyzo	u by. 511					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2025	ND	2.06	103	2.00	3.61	
Toluene*	<0.050	0.050	06/02/2025	ND	2.09	105	2.00	4.26	
Ethylbenzene*	<0.050	0.050	06/02/2025	ND	2.05	102	2.00	4.01	
Total Xylenes*	<0.150	0.150	06/02/2025	ND	6.03	100	6.00	4.55	
Total BTEX	<0.300	0.300	06/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/03/2025	ND	368	92.0	400	16.0	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2025	ND	191	95.4	200	1.00	
DRO >C10-C28*	<10.0	10.0	06/03/2025	ND	183	91.7	200	1.57	
EXT DRO >C28-C36	<10.0	10.0	06/03/2025	ND					
Surrogate: 1-Chlorooctane	72.3	% 44.4-14.	5						
Surrogate: 1-Chlorooctadecane	63.4	% 40.6-15.	3						

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### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with

interfering compounds.

GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.

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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## 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

19 of 20

	(575) 393-2326 FAX (575) 393-2476	476										Page 1 of 2	age
Company Name:	Etech Environmental & Safety Solutions, Inc	ions, Inc.		BILL	70				ANALYSIS		REQUEST		
Project Manager:	Joel Lowry		P.O.	). #:				-		$\dashv$			ᆛ
Address: 2617	2617 West Marland		Col	Company: Pe	Permian Resources								
City: Hobbs	State: NM	Zip: 88240	O Attn:		Montgomery Floyd			_	_	_			_
Phone #: (575)	(575) 264-9884 Fax #:		Ad	Address:									
Project #: 22036		Project Owner: 3R Operating, LLC	, LLC City:	y:			<b>/</b> 1)	B)					
Project Name:	Shell State Tank Battery		State:	te: Zip:		de	151	21					
Project Location:	33.369742, -103.647038		Ph	Phone #:		ori	80	(80		2.7			
Sampler Name:	Martin Sepulveda		Fax #:	(#:		Chl	Н (	ΞX					
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING		TP	ВТІ					
Lab I.D. ₩ <i>8≲33</i> 11	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE TIME								
-	SP 1 @ Sur	G 1	×	×	5/30/25	×	×	×					
a) -	SP 1 @ 1'	G 1	×	X 5/3	5/30/25	×	×	×					
	SP 2 @ Sur	G 1	×	X 5/3	5/30/25	×	×	×					
	SP 2 @ 2'	G 1	×	× 5/3	5/30/25	×	×	×					
	SP 3 @ Sur	G 1	×	X 5/3	5/30/25	×	×	×					
	SP 3 @ 2' - R	G 1	×	X 5/3	5/30/25	×	×	×					
	SP 4 @ Sur	G 1	×	X 5/3	5/30/25	×	×	×					
00	SP 4 @ 2'	G 1	×	X 5/3	5/30/25	×	×	×					- 1
	SP 5 @ Sur	G 1	×	X 5/3	5/30/25	×	×	×					
10	SP 5 @ 1'	G 1	×	×	5/30/25	×	×	×		-			
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Call affiliates or successors arising	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive emeety for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the unalyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the appli service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.	's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for see whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of this ental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiar services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwises	ased in contract or tort, shate in writing and received the in writing and received the interruptions, loss of use the such claim is based up	all be limited to the amou  y Cardinal within 30 days  , or loss of profits incurred  on any of the above state	amount paid by the client for the days after completion of the ap curred by client, its subsidiaries, stated reasons or otherwise.	e pplicable							
Relinquished By	Date:	Received By:	V:		Verbal Res		☐ Yes	ult: ☐ Yes ☐ No Add'I Phone #:	Add'l Phone #:	one #:			
16/1/	h Mru		une					Toda Prove	pm@etechenv.com	env.com			
Relinquished By:		Received By:	Υ.		REMARKS	ŝ							
Delivered By: (Circle One) Sampler - UPS - Bus - Ot	Sircle One) Observed Temp. °C O-0-3-3-5 Corrected Temp. °C - 8-0-7	1	그다 핥 얼	CHECKED BY: (Initials)		Factor #	#140	Standard Rush	∏× ¬¬Ω ¤	Bacteria (only)	y) Sal	mple Condition Observed Temp. °C	
		10.00	No No	子	Correction Factor -0.6°C+0 3	Factor	4.0°6.C+	1,00		No		Corrected Temp. °C	

FORM-006 R 3.5 08/05/24

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished B Relinquished By: HOSSON! Sampler Name: Project Location: Project Name: Shell State Tank Batter Project #: Phone #: Sampler - UPS nalyses. All claims including those for negligence and any other cause LEASE NOTE: Liability and Dam Address: Delivered By: (Circle One) Lab I.D. T 0 W 22036 2617 West Marland (575) 264-9884 Bus - Other: SP 6 @ Sur SP 8 @ 2' SP 8 @ Sur SP 7 @ 2' - R SP 7 @ Sur SP 6 @ 1' - R 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 33.369742, -103.647038 Etech Environmental & Safety Solutions, Inc. Martin Sepulveda . Cardinal's liability and client's exclusive remedy for any claim Sample I.D Observed Temp. °C Corrected Temp. °C-8.0 State: Date: Project Owner: 3R Operating, LLC Fax #: Time: whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable 1.2.05 N N Zip: 100 9 9 9 G G 9 (G)RAB OR (C)OMP Received By: Received By: # CONTAINERS \_ \_ \_ \_ GROUNDWATER 88240 Cool Intact
Yes Yes Sample Condition WASTEWATER MATRIX SOIL  $\times$ ×  $\times$  $\times$ × × OIL SLUDGE Fax #: State: City: OTHER Phone #: Attn: P.O. #: Company: Address ACID/BASE PRESERV CHECKED BY: ICE / COOL C × × × × × × BILL TO OTHER Montgomery Floyd Zip 5/30/25 5/30/25 5/30/25 5/30/25 5/30/25 5/30/25 DATE Permian Resources paid by the client for the SAMPLING All Results are emailed. Please provide Email address: Correction Factor -0.6°CT 3 hermometer ID #140 Turnaround Time: REMARKS IME Chloride × × × × × × TPH (8015M) × × × Standard Rush BTEX (8021B) × × × × × × ON O pm@etechenv.com ANALYSIS REQUEST Add'l Phone #: Cool Intact

Yes Yes

No No Bacteria (only) Sample Condition Observed Temp. Page 2 of 2 റ് Page 20 of 20

FORM-006 R 3.5 08/05/24

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

Corrected Temp. °C



July 08, 2025

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: SHELL STATE TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/01/25 14:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Fax To:

Received: 07/01/2025 Sampling Date: 06/27/2025

Reported: 07/08/2025 Sampling Type: Soil

Project Name: SHELL STATE TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 22036 Sample Received By: Alyssa Parras

A ..... I ..... . J D. ... 711

Project Location: 3R OP 32.369742, -103.647038

### Sample ID: NH @ S (H253975-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2025	ND	2.00	99.9	2.00	13.9	
Toluene*	<0.050	0.050	07/02/2025	ND	2.00	99.9	2.00	11.5	
Ethylbenzene*	<0.050	0.050	07/02/2025	ND	2.01	100	2.00	9.56	
Total Xylenes*	<0.150	0.150	07/02/2025	ND	6.00	100	6.00	9.56	
Total BTEX	<0.300	0.300	07/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/02/2025	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2025	ND	209	105	200	2.94	
DRO >C10-C28*	<10.0	10.0	07/02/2025	ND	205	102	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	07/02/2025	ND					
Surrogate: 1-Chlorooctane	78.8	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	79.3	% 40.6-15	3						

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### Analytical Results For:

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

Fax To:

Received: 07/01/2025 Sampling Date: 06/27/2025

Reported: 07/08/2025 Sampling Type: Soil

Project Name: SHELL STATE TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 22036 Sample Received By: Alyssa Parras

Analyzed By: 14

Project Location: 3R OP 32.369742, -103.647038

ma/ka

### Sample ID: NH @ 1' (H253975-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2025	ND	2.00	99.9	2.00	13.9	
Toluene*	<0.050	0.050	07/02/2025	ND	2.00	99.9	2.00	11.5	
Ethylbenzene*	<0.050	0.050	07/02/2025	ND	2.01	100	2.00	9.56	
Total Xylenes*	<0.150	0.150	07/02/2025	ND	6.00	100	6.00	9.56	
Total BTEX	<0.300	0.300	07/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/02/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2025	ND	209	105	200	2.94	
DRO >C10-C28*	<10.0	10.0	07/02/2025	ND	205	102	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	07/02/2025	ND					
Surrogate: 1-Chlorooctane	80.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	82.0	% 40.6-15	3						

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### Analytical Results For:

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

Fax To:

Received: 07/01/2025 Sampling Date: 06/27/2025

Reported: 07/08/2025 Sampling Type: Soil

Project Name: SHELL STATE TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 22036 Sample Received By: Alyssa Parras

Project Location: 3R OP 32.369742, -103.647038

### Sample ID: EH @ S (H253975-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2025	ND	2.00	99.9	2.00	13.9	
Toluene*	<0.050	0.050	07/02/2025	ND	2.00	99.9	2.00	11.5	
Ethylbenzene*	<0.050	0.050	07/02/2025	ND	2.01	100	2.00	9.56	
Total Xylenes*	<0.150	0.150	07/02/2025	ND	6.00	100	6.00	9.56	
Total BTEX	<0.300	0.300	07/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/02/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2025	ND	209	105	200	2.94	
DRO >C10-C28*	<10.0	10.0	07/02/2025	ND	205	102	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	07/02/2025	ND					
Surrogate: 1-Chlorooctane	80.6	% 44.4-14	25						
Surrogate: 1-Chlorooctadecane	78.9	% 40.6-15	3						

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### Analytical Results For:

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

Fax To:

Received: 07/01/2025 Sampling Date: 06/27/2025

Reported: 07/08/2025 Sampling Type: Soil

Project Name: SHELL STATE TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 22036 Sample Received By: Alyssa Parras

Analyzed By: 14

Project Location: 3R OP 32.369742, -103.647038

ma/ka

### Sample ID: EH @ 1' (H253975-04)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2025	ND	2.00	99.9	2.00	13.9	
Toluene*	<0.050	0.050	07/02/2025	ND	2.00	99.9	2.00	11.5	
Ethylbenzene*	<0.050	0.050	07/02/2025	ND	2.01	100	2.00	9.56	
Total Xylenes*	<0.150	0.150	07/02/2025	ND	6.00	100	6.00	9.56	
Total BTEX	<0.300	0.300	07/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/02/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2025	ND	209	105	200	2.94	
DRO >C10-C28*	<10.0	10.0	07/02/2025	ND	205	102	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	07/02/2025	ND					
Surrogate: 1-Chlorooctane	77.0	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	76.7	% 40.6-15	3						

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### Analytical Results For:

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

Fax To:

Received: 07/01/2025 Sampling Date: 06/27/2025

Reported: 07/08/2025 Sampling Type: Soil

Project Name: SHELL STATE TANK BATTERY Sampling Condition: Cool & Intact
Project Number: 22036 Sample Received By: Alyssa Parras

Analyzed By: 14

Project Location: 3R OP 32.369742, -103.647038

ma/ka

### Sample ID: WH @ S (H253975-05)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2025	ND	2.00	99.9	2.00	13.9	
Toluene*	<0.050	0.050	07/02/2025	ND	2.00	99.9	2.00	11.5	
Ethylbenzene*	<0.050	0.050	07/02/2025	ND	2.01	100	2.00	9.56	
Total Xylenes*	<0.150	0.150	07/02/2025	ND	6.00	100	6.00	9.56	
Total BTEX	<0.300	0.300	07/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/02/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2025	ND	209	105	200	2.94	
DRO >C10-C28*	<10.0	10.0	07/02/2025	ND	205	102	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	07/02/2025	ND					
Surrogate: 1-Chlorooctane	80.7	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	79.7	% 40.6-15	3						

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### Analytical Results For:

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

Fax To:

Received: 07/01/2025 Sampling Date: 06/27/2025

Reported: 07/08/2025 Sampling Type: Soil

Project Name: SHELL STATE TANK BATTERY Sampling Condition: Cool & Intact Project Number: 22036 Sample Received By: Alyssa Parras

Project Location: 3R OP 32.369742, -103.647038

### Sample ID: WH @ 1' (H253975-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/02/2025	ND	2.00	99.9	2.00	13.9	
Toluene*	<0.050	0.050	07/02/2025	ND	2.00	99.9	2.00	11.5	
Ethylbenzene*	<0.050	0.050	07/02/2025	ND	2.01	100	2.00	9.56	
Total Xylenes*	<0.150	0.150	07/02/2025	ND	6.00	100	6.00	9.56	
Total BTEX	<0.300	0.300	07/02/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/02/2025	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2025	ND	209	105	200	2.94	
DRO >C10-C28*	<10.0	10.0	07/02/2025	ND	205	102	200	2.67	
EXT DRO >C28-C36	<10.0	10.0	07/02/2025	ND					
Surrogate: 1-Chlorooctane	82.2	% 44.4-14	5						
Surrogate: 1-Chlorooctadecane	80.9	% 40.6-15	3						

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wite South



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

						11000	
Project Manager: Joel Lowry		P.O. #:		1	-	ANALYSIS REQUEST	L
Address: 2617 W Marland Blvd		Company: 3R Operating					
City: Hobbs State: NM	<b>Zip:</b> 88240	_					
Phone #: (575) 264-9884 Fax #:							
Project #: 22036 Project Owner:	3R Operating, LLC	City:					
Project Name: Shell State Tank Battery		State: Zip:					
Project Location: GPS:(33.369742, -103.647038)		Phone #:					
Sampler Name: Zach Conder		Fax #:					
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	LING				
Lab I.D. Sample I.D.	RAB OR (C)OMP ONTAINERS DUNDWATER STEWATER L	HER: D/BASE: / COOL HER:	loride		EX 8021		
H25307	# CO GRO WAS SOIL	OTH ACII ICE	TIME	TPI	вт		
NH @ S	G 1	X 6/27/25	8:00 X	×	×		
1	G 1	X 6/27/25	8:05 X	×	×		
	G 1 ×	X 6/27/25	8:10 X	×	×		
EH @ 1'	G 1 ×	X 6/27/25	8:15 X	×	×		
	G 1 ×	X 6/27/25	8:20 X	×	×		
WH @ 1'	G 1	X 6/27/25	8:25 X	×	×		
those for negligence and any other dinal be liable for incidental or consecutor out of or related to the performance	It is exclusive ternerly for any claim arising whether based in contract or tort, shall be limited to the amount parause whatscovers shall be deemed waived unless made in writing and received by Cardinal within 30 days at quental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by of services hereuraler by Cardinal, regardless of whether such claims is based upon any of the above stated to	or tort, shall be limited to the amount paid received by Cardinal within 30 days after ass of use, or loss of profits incurred by clossed upon any of the above stated reach based upon any of the above stated reach.	by the client for the completion of the application, its subsidiaries, sons or otherwise.	able			ŀ
Relinduisned by:	Received By:		Phone Result: Fax Result:	□ Yes	O No	Add'l Phone #: Add'l Fax #:	
Relinquished By:	Received By:		REMARKS:		copy of C	Email copy of COC and results to: PM@etechenv.com	
Time:							
_	Sample Condition	CH					
1	Yes A Yes						

Page 9 of 9

### Appendix E Regulatory Correspondence

### **Joel Lowry**

From: Knight, Tami C. <tknight@nmslo.gov>

**Sent:** Monday, May 5, 2025 3:42 PM **To:** Austin Tramell; Joel Lowry

**Cc:** Biernoff, Ari; Heltman, Elaine G.; Bisbey-Kuehn, Elizabeth A.

**Subject:** SA & REM WP- 3R/Read & Stevens - Shell State Tank Battery- Approved w/ conditions

### Austin

ECO has review the site assessment and remediation workplan for the subject tank battery located on K038360002 at 33.369742, -103.647038. We have approved the workplan with the following conditions.

- 1. Site assessment sample locations must be moved or added based on actual site conditions. For example, the loading area in front of the battery at the drip buckets are typically release areas. The aerials are inconclusive but highly suspect.
- 2. The flow line scar coming into the tank battery is likely contiguous. If PS-4 is over regulatory standard for any contaminant of concern, compliance with the CPP Rule will be require so the investigation can advance further west.



Please respond to this email that you understand and agree to the conditions of approval. 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.



# Environmental Compliance Office New Mexico State Land Office eco@nmslo.gov nmstatelands.org







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From: Austin Tramell <atramell@3ROperating.com>

Sent: Wednesday, April 30, 2025 3:54 PM

To: SLO Spills <spills@nmslo.gov>

Subject: [EXTERNAL] FW: Shell State Lease - Site Assessment and Proposed Interim Reclamation Plans

From: Austin Tramell

Sent: Wednesday, April 30, 2025 3:47 PM

**To:** Knight, Tami C. **Cc:** Joel Lowry

Subject: FW: Shell State Lease - Site Assessment and Proposed Interim Reclamation Plans

Tami,

Please see attached site assessment and reclamation plans for the Shell State 3, 4, and Shell State Tank Battery.

Please let me know if you have any questions.

**Thanks** 

Austin Tramell Director Environmental & Regulatory 832-810-1037 (Office) 575-499-4919 (Cell)





2617 W. Marland Hobbs, NM 88240 Office: (575) 964-2880

**April 11, 2025** 

#### Attn. Tami Knight

New Mexico State Land Office Environmental Compliance Office 1300 W. Broadway Avenue, Suite A Bloomfield, NM 87413

> RE: Site Assessment and Interim Reclamation Plan 3R Operating, LLC Shell State Tank Battery U/L A, Sec. 18, T11S, R33E API No. 30-025-21842

**SLO Lease No. KO-38360002** 

Ms. Knight,

Etech Environmental & Safety Solutions (Etech), on behalf of 3R Operating, LLC (3R), has prepared this *Site Assessment and Interim Reclamation Plan* for the site known as the Shell State Tank Battery (henceforth, "Site"). The Site is located approximately 18.5 miles northwest of Tatum in U/L "A," Section 18, Township 11 South, Range 33 East, in Lea County, on land owned by the State of New Mexico and administered by the New Mexico State Land Office. The GPS coordinates of the site are 33.36974, -103.64703. A "Site Location Map" is provided as Attachment #1.

#### **BACKGROUND AND SITE CONDITIONS**

The Site can be described as an approximate 0.7-acre active tank battery facility with good access via state highways and traditional caliche oilfield access roads. Prior to being acquired by 3R, the tank battery and associated lease was operated by Read & Steven's, Inc. In response to the lease transfer, a historical aerial imagery review was conducted, where members of the NMSLO's realty group identified evidence of a historical release in the north-central portion of the tank battery facility. Based on a review of available records and aerial imagery, it appears limited remediation activities have been conducted, although environmental records are not readily available. A "Historical Aerial" depicting the area of concern is provided as Attachment #2. A "Proposed

Sample Location Map" depicting the active facility and proposed sampling locations is provided as Attachment #3.

Review of available New Mexico Oil Conservation Division (NMOCD) Permitting data suggests that there have been no environmental field inspection violations at the facility. Review of incident records suggests that there has been one (1) reportable incident (nPRS0413152570) associated with the tank battery. Review of environmental records indicates that on May 16, 2004, the failure of a dump valve resulted in the release of eight (8) barrels of produced water. Environmental records suggests that by July 26, 2004, limited remediation activities were conducted, including the excavation and disposition of chloride contaminated soil; there is no "Release Notification and Correction Action" (NMOCD Form C-141) of closure documentation currently available. Given this, interim remediation/reclamation activities will be conducted in accordance with the NMOCD and NMSLO, as necessary. NMOCD Permitting details are provided as Attachment #4.

The soil in the vicinity of the Site can be described as Kimbrough-Lea complex with 0 to 3 percent slopes. Additional information regarding soil types is provided as Attachment #5.

Based on a review of historical aerial imagery, reclamation activities are not expected to affect natural habitat or previously undisturbed areas where the Cultural Properties Protection Rule is applicable. In the event interim reclamation/remediation activities lead to previously undisturbed areas, the Cultural Properties Protection Rule will be complied with, as necessary.

Based on a review of groundwater databases maintained by the New Mexico Office of the State Engineer and United States Geological Survey, as well as local drilling, the probable depth to groundwater was determined to be approximately (60) feet (ft) below ground surface (bgs) at the Site.

Additionally, the Site is not proximate to other sensitive receptors identified in Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC), such as continuously flowing watercourses, lakebeds, sinkholes, playas, occupied permanent residences, schools, hospitals, institutions, churches, springs, freshwater wells, municipal freshwater well fields, wetlands, subsurface mines, unstable areas, and/or 100-year floodplains. NMOCD Siting information is provided as Attachment #6.

The Site is not located in any critical habitat. In the event wildlife or other sensitive species such as migratory birds or the Lesser Prairie-Chicken are encountered during the course of reclamation activities, the project scope will be reevaluated to ensure compliance with applicable rules, as necessary. Details regarding protected species and/or habitats are provided as Attachment #7.

#### **RECLAMATION ACTIVITIES**

Etech proposes the following interim reclamation activities designed to allow for the transfer of the lease at the Site:

- Upon notifying the NMSLO, conduct an initial soil investigation at the Site. The initial soil investigation will include the collection of soil samples from the surface and at 1 ft. bgs from the areas of concern in the active tank battery facility identified by the NMLSO's realty group during the historical aerial review. The collected soil samples will be analyzed for concentrations of benzene, toluene, ethylbenzene, and total xylenes (BTEX) utilizing EPA SW-846 Method 8021, total petroleum hydrocarbons (TPH) utilizing Environmental Protection Agency (EPA) SW-846 Method 8015M Ext., and chloride utilizing EPA 300.0 and/or SM 4500 Cl B, if applicable. The NMSLO will be notified at least two (2) business days prior to the commencement of any reclamation and/or confirmation sampling activities.
- Upon receiving laboratory analytical results from the initial soil investigation samples, excavate visibly and non-visibly impacted portions of the tank battery facility affected above the NMOCD Remediation Standards and/or NMOCD Reclamation Standards, as described in the "Procedures for Implementation of the Spill Rule (19.15.29 NMAC)", dated September 6, 2019 (10 ppm benzene, 50 ppm BTEX, 100 ppm TPH, and 600 ppm chloride). The floors and sidewalls of the excavated area(s) will be advanced until laboratory analytical results from 5-point composite excavation confirmation soil samples (representing no more than 200 sq. ft.) indicate concentrations of benzene, BTEX, TPH, and chloride are below the NMOCD Reclamation Standards and/or the NMOCD Remediation Standards, whichever is applicable.
  - o It should be noted that if the excavation encroaches on the active tank battery equipment, deferral characterization soil samples will be collected, as necessary, and material affected above the NMOCD Reclamation Standards/Remediation Standards remaining in-situ will be treated with a Microblaze ® or similar solution. Final remediation/reclamation will be conducted in accordance with the NMOCD and NMSLO once the facility is decommissioned.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, the excavated areas will be backfilled with locally-sourced, non-impacted "like" material. Affected areas within the active facility will be backfilled, compacted and graded to meet the needs of the facility.
- Interim reclamation/remediation activities are not expected to affect the adjacent pasture area. In the event interim reclamation/remediation activities lead into the adjacent pasture, disturbed areas will be reseeded with State Coarse Sites Seed Mixture, as necessary.

 Upon completion of interim reclamation/remediation activities, a Remediation Summary and Closure (or Deferral Request, if applicable) detailing field activities and laboratory analytical results from confirmation soil samples will be prepared and submitted to the NMSLO and NMOCD.

#### PROPOSED SCHEDULE AND TIMELINE

Reclamation activities are expected to commence within 30 days of receiving NMSLO approval and are estimated to take three (3) weeks to complete.

If you have any questions or need any additional information, please feel free to contact me or Austin Tramell by phone or email.

Sincerely,

Joel Lowry

Etech Environmental & Safety Solutions

#### Attachments:

Attachment #1 - Site Location Map

Attachment #2 - Historical Aerial

Attachment #3 - Proposed Sample Location Map

Attachment #4 - NMOCD Permitting Details

Attachment #5 - Soil Type Information

Attachment #6 - NMOCD Siting Information

Attachment #7 - Protected Species and/or Habitat Details







Quic • Gene Mater Event Order Action Asso • Incide • Well F New New F New I New ( New I • <u>New </u>§ • New 1 • <u>New \</u>

SIGN-IN HELP

Searches

**Operator Data** 

**Hearing Fee Application** 

### **OCD Permitting**

Home Searches

Incidents

Incident Details

#### NPRS0413152570 SHELL STATE #001 @ 30-025-22409

General Incident In	formation							
Site Name: Well: Facility: Operator: Status: Type: District: Incident Location: Lat/Long: Directions:	SHELL STATE # [30-025-22409] \$ [331569] 3R Ope Closure Not App Produced Water  Hobbs  A-18-11S-33E 33.3713417,-103	SHELL STAT erating, LLC roved, Pendi Release 660 FNL	ing submission	of C-141 fro	om the operator	Severity: Surface Owner: County:	Minor State Lea (25)	
Notes								
Source of Referral:	Industry Rep					Action / Escalation:	Other - Specify in Notes	
Resulted In Fire:						Resulted In Injury:		
Endangered Public He	ealth:					Will or Has Reached V	/atercourse:	
Fresh Water Contamin	nation:					Property Or Environm	ental Damage:	
Contact Details Contact Name:						Contact Title:		
Event Dates								
Date of Discovery:		03/1	6/2004			Initial C-141 Report Du	ie:	3/31/2004
						Remediation Closure	Report Due:	11/13/2018
Incident Dates								
Туре		Action	Received	Denied	Approved			
Remediation Closure R	eport Extension		08/15/2018		08/15/2018			
Sampling Notice		[403610]	11/15/2024		11/15/2024			
Compositional Ana		d and/or Fl	ared Natural	Gas				

SIGN-IN HELP

								Searches	Operator Data	Hearing Fee A	pplication
Corrosion	Dump Valve	Produced Water		8	0	8	BBL				
The concent	ration of dissolved	d chloride in the produ	ced water	>10,000 mg/l:	Yes	<b>✓</b>	No				
Incident E	vents										
Date			Detail								
11/15/2024	The (11/15/202	24, C-141N) applicatio	n [ <u>403610</u> ]	was assigned	to this incident.						
07/26/2004	W. Palmer sent	t chloride contaminate	d soil to la	ndfarm. No sa	mple data submi	tted.					
Incident S	ovority										
	-	15.29.7(A) NMAC?									
Yes V		10.25.7 (A) NINAO:									
la abband O											
	orrective Actio										
		nd for this incident. s found for this incide	nt.								
		ound for this incident.									
No active reme	ediation deferral re	equest was found for t	his inciden	t.							
No remediation	n closure report da	ata was found for this	incident.								
No reclamation	n report data was t	found for this incident.									
No re-vegetation	on report data was	s found for this incider	ıt.								
Orders											
No Orders Fou	ınd										

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012 1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

EMNRD Home OCD Main Page OCD Rules Help

Shell State #003

xico

#### Lea County, New Mexico

#### KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

#### **Map Unit Setting**

National map unit symbol: 2tw46 Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

#### **Map Unit Composition**

Kimbrough and similar soils: 45 percent Lea and similar soils: 25 percent Minor components: 30 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

#### **Description of Kimbrough**

#### Setting

Landform: Playa rims, plains
Down-slope shape: Convex, linear
Across-slope shape: Concave, linear

Parent material: Loamy eolian deposits derived from sedimentary

rock

#### Typical profile

A - 0 to 3 inches: gravelly loam Bw - 3 to 10 inches: loam

Bkkm1 - 10 to 16 inches: cemented material Bkkm2 - 16 to 80 inches: cemented material

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: 4 to 18 inches to petrocalcic

Drainage class: Well drained Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 95 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

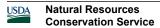
mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified



Shell State #003

Mexico

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Hydric soil rating: No

#### **Description of Lea**

#### Setting

Landform: Plains

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated

caliche of pliocene age

#### Typical profile

A - 0 to 10 inches: loam Bk - 10 to 18 inches: loam

Bkk - 18 to 26 inches: gravelly fine sandy loam Bkkm - 26 to 80 inches: cemented material

#### **Properties and qualities**

Slope: 0 to 3 percent

Depth to restrictive feature: 22 to 30 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 90 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0

mmhos/cm)

Sodium adsorption ratio, maximum: 3.0

Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R077DY047TX - Sandy Loam 12-17" PZ

Hydric soil rating: No

#### **Minor Components**

#### Douro

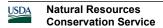
Percent of map unit: 12 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077DY047TX - Sandy Loam 12-17" PZ Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No



Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

Shell State #003

#### Kenhill

Percent of map unit: 12 percent

Landform: Plains

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R077DY038TX - Clay Loam 12-17" PZ

Hydric soil rating: No

#### **Spraberry**

Percent of map unit: 6 percent Landform: Playa rims, plains Down-slope shape: Convex, linear

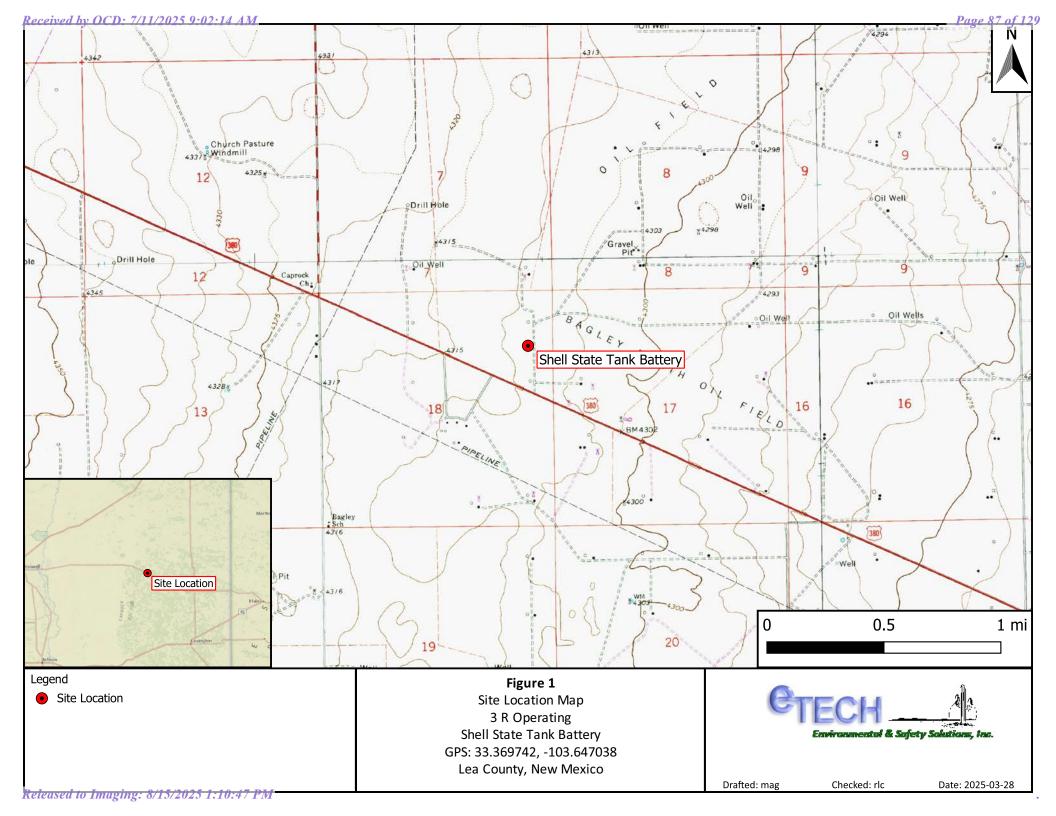
Across-slope shape: Linear

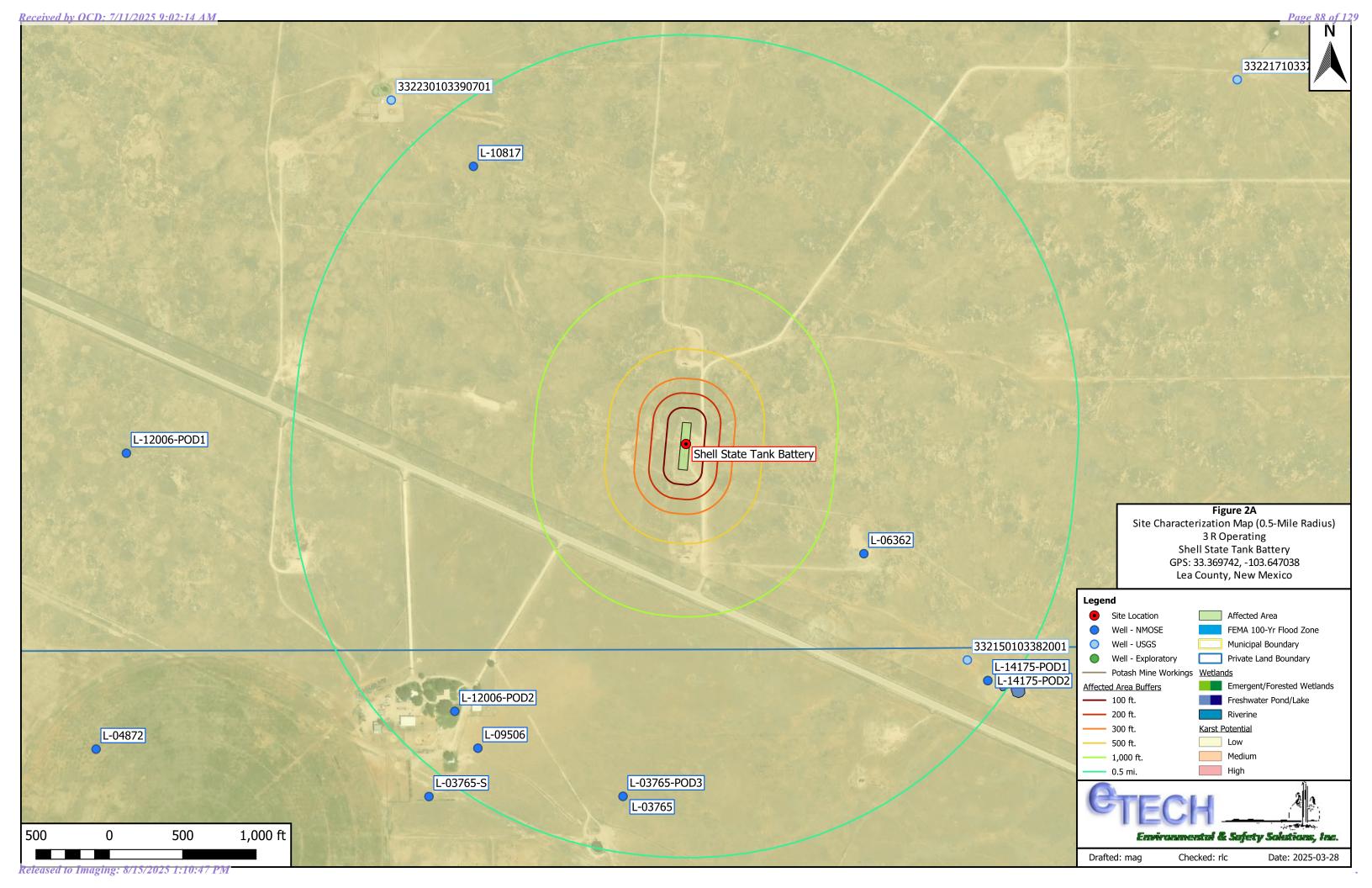
Ecological site: R077DY049TX - Very Shallow 12-17" PZ Other vegetative classification: Unnamed (G077DH000TX)

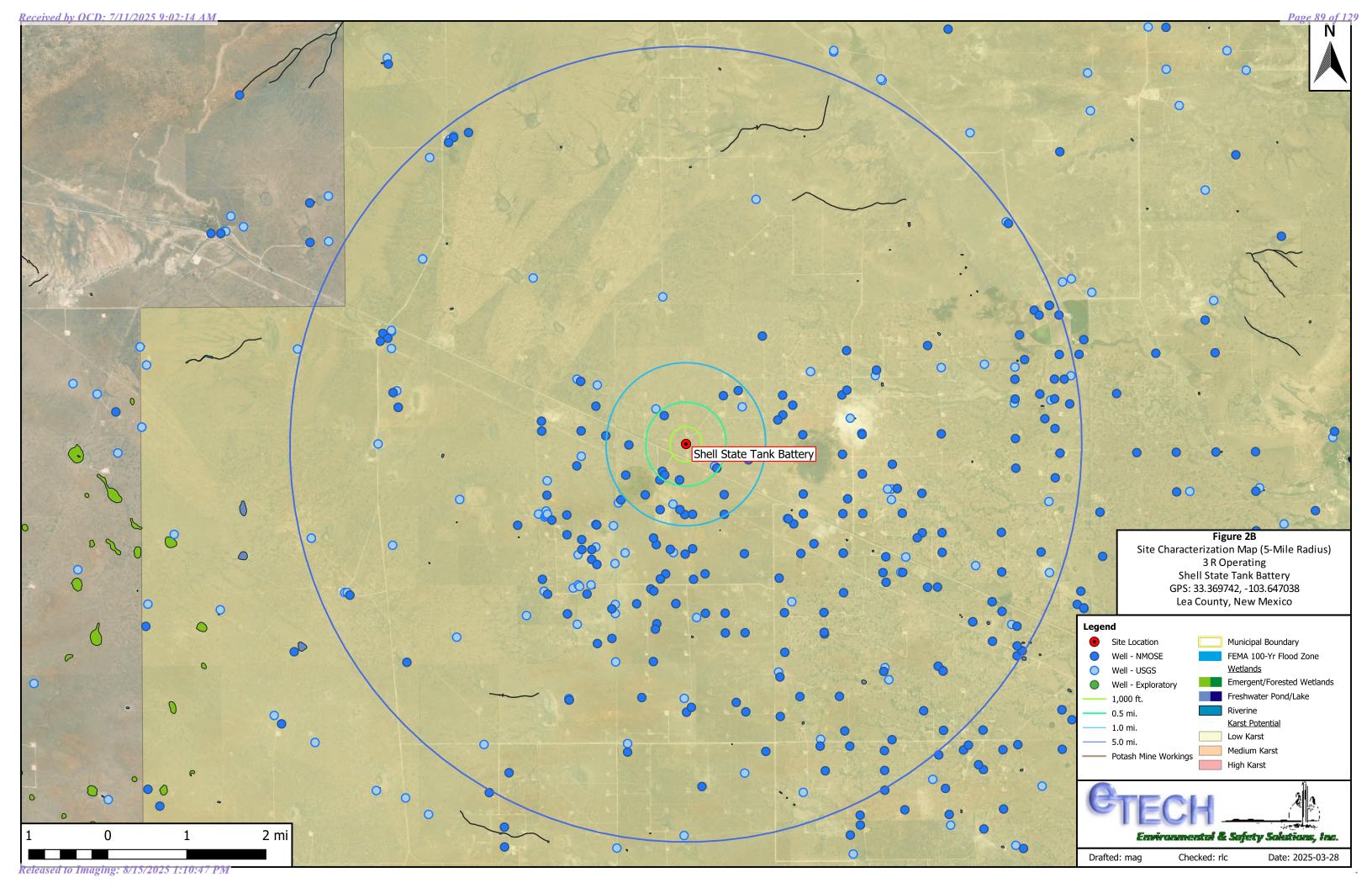
Hydric soil rating: No

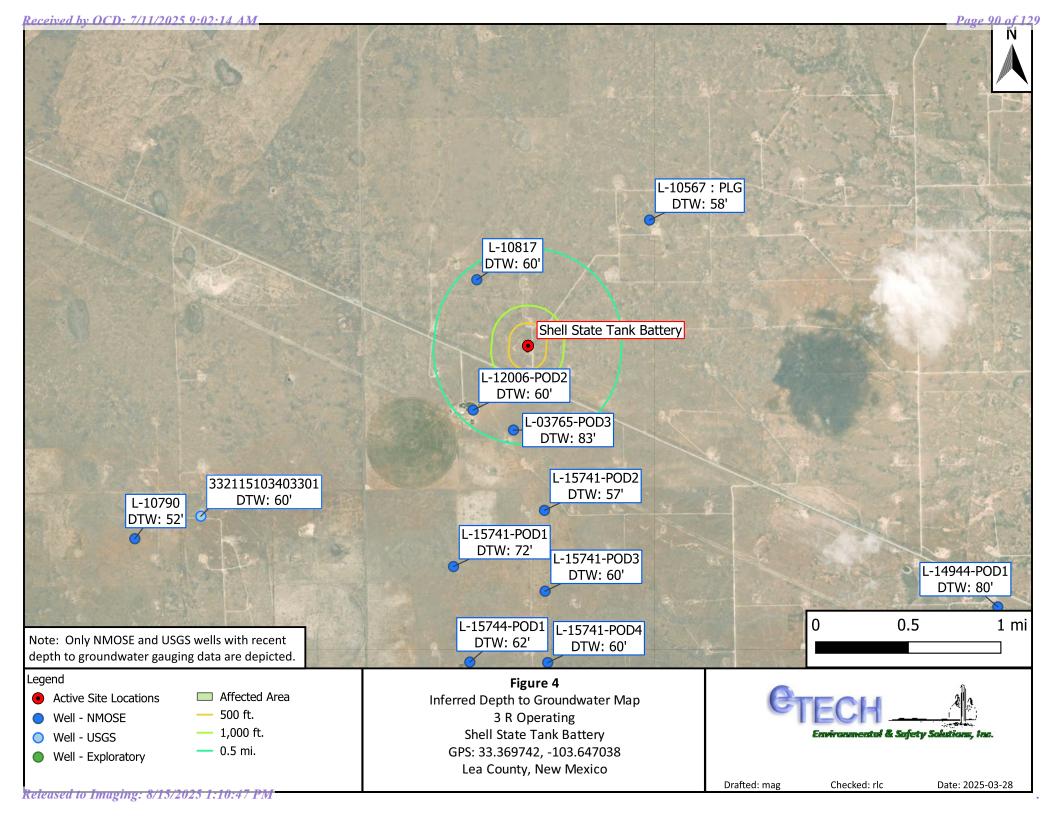
#### **Data Source Information**

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 21, Sep 3, 2024









### **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 Tws Rng Х Мар Sec L 10817 SW SE 07 11S 33E 625418.0 3693669.0 \*

\* UTM location was derived from PLSS - see Help

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

#### **Water Bearing Stratifications:**

Тор	Bottom	Description
65	122	Other/Unknown

#### **Casing Perforations:**

Тор	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.

3/28/25 12:12 PM MST Point of Diversion Summary

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# STATE ENGINEER OFFICE



Revised June 1972

Construction   Pear of Ranch   Control   Con	-	-	-		WELL REC	ORD			vised June 19
Consert of well   Pear Ce Ranch   Street or Port Office Address   Well No.				Section	I. GENERAL I	NFORMATIO	4	44	8+30
Street a Pool Offige Address   WEEL STATE   100 x 72	.) Owner o	f well Pea	arce Ranc	ch		<del></del>	Owne		
Section 3. RECORD OF CASING   Section 1.25   Name of Section 2. Private of Section 3. RECORD OF CASING   Name of Section 1.25   Name of Section 3. RECORD OF CASING   Name of Section 4. RECORD OF MUDDING AND CEMENTING   Name of Section 5. PLUGGING RECORD   Name of Section 5. PLUGGING RECORD   Name of Section 5. PLUGGING RECORD   Name of Cement   N	Street or	Post Office A	Adress West	l Star	88267				
No.									
S. Tract No.								33 <del></del> E-	NAD
c. Lot No. of Block No. of the Subdivision, recorded in County.  d. X									
Subdivision, recorded in			-						
Drilling Contractor   Glenn's Wa6er Well Service   License No.   WD-421						-			
Drilling Contractor   Glenn's Wa6er Well Service   License No.   WD-421	d. X= _		feet, Y=		feet, N	.M. Coordinate	System		Zone
Section 3. RECORD OF CASING   Performing	the								Gran
stiling Began 6/5/98   Completed 6/5/98   Type tools rotary   Size of hole 9 7/8   Type tools rotary   Total depth of well   125   1							License No	WD-421	
Section 4. RECORD OF MUDDING AND CEMENTING   Section 4. RECORD OF Mudding   Section 5. PLUGGING RECORD   Section 5. PLUGGING RECORD   Section 6. Sect									
Depth   Feet   From   To   Feet   Cubic Feet   From   To   Feet   From   Feet   From   To   Feet   From	rilling Began	6/5/98	Com	pleted	6/5/98	_ Type tools $\frac{r}{}$	otary	Size of hole	9 7/8
Depth   Feet   From   To   Feet   Cubic Feet   From   To   Feet   From   Feet   From   To   Feet   From	evation of la	nd surface or _			at we	ll is	ft. Total depth	of well	125
Depth in Feet   Thickness in Feet   Thickness in Feet   Description of Water-Bearing Formation   Restlimated Yield (gallons per minute)	mpleted wel	ll is 📛 s	hallow 🗀 a	artesian.		Depth to water	r upon completion	of well	50
From   To   in Feet   Description of Water-Bearing Formation   Gallons per minute)			Sec	tion 2. PRIN	CIPAL WATE	R-BEARING S	<b>TRATA</b>		
122   57   Sand   40 GPM		T			Description of	Water-Bearing l	Formation		
Section 3. RECORD OF CASING     Perforations   Pe	65	122	57		Sand				
Diameter (inches)   Pounds (inches)   Pounds (inches)   Per foot   Per inches   P						<u> </u>	<del> </del>		
Diameter (inches)   Pounds (inches)   Pounds (inches)   Per foot   Per inches   P					<u> </u>				
Diameter (inches)   Pounds (inches)   Pounds (inches)   Per foot   Per inches   P					, <u>,</u>	·	- <u></u>		<del></del>
Diameter (inches)   Pounds (inches)   Pounds (inches)   Per foot   Per inches   P			1						
Contractor   Section 5. PLUGGING RECORD   Section 5. PLUGGING RECORD   Section 5. PLUGGING RECORD   Section 5. PLUGGING RECORD   State Engineer Representative   State Engineer Representative   Section 5. PLUGGING RECORD   State Engineer Representative   Section 5. PLUGGING RECORD   Section 5. PLUGGING RECORD   State Engineer Representative   Section 5. PLUGGING RECORD   Sectio	Diameter		Threads			T		Perf	orations
Section 4. RECORD OF MUDDING AND CEMENTING  Depth in Feet Hole Diameter of Mud of Cement Method of Placement  Section 5. PLUGGING RECORD  ging Contractor ress ging Method No. Depth in Feet Cubic Feet of Well Plugged. ging approved by:  State Engineer Representative 1 2 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		per foot	per in.	Тор	Bottom	(feet)	Type of Sho	• —	7
Section 5. PLUGGING RECORD    Section 5. PLUGGING RECORD	52"	• 250	T&C			125	none	65	125
Section 5. PLUGGING RECORD    Section 5. PLUGGING RECORD					-		,		
Section 5. PLUGGING RECORD    Section 5. PLUGGING RECORD									
Section 5. PLUGGING RECORD  ging Contractor ress ging Method Well Plugged ging approved by:  State Engineer Representative  Method of Placement  Top  Bottom  1 2 3 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	David	- F		<del></del>		ING AND CEM	ENTING		
ging Contractor ress ging Method rest							Metho	d of Placement	
ging Contractor ress ging Method rest									
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ging Contractor ress ging Method rest				<u> </u>	<u></u> . <u> </u>	<b>__</b>	· · · · · · · · · · · · · · · · · · ·		HT.
ging Method	Reine Contra	ctor		Section	n 5. PLUGGIN	G RECORD			
Well Plugged	11622	<del></del>		······································			Depth in F	cet C	ubic Feet
State Engineer Representative 3 4	e Well Plugge	ed					Тор		
State Engineer Representative 4	ging approve	ed by:							· · · · · · · · · · · · · · · · · · ·
FOR USE OF STATE ENGINEER ONLY			State Engir	neer Represe	ntative				
F 1//1 1// 1		06112100		FOR USE	OF STATE EN	GINEER ONLY		TATA	20
Quad FWL FSI					- ·		· " ·	FSL	<del></del>

File No. L-10, 817
Released to Imaging: 8/15/2025 1:10:47 PM

Use Stock Location No. 11.33.7.4330

Section 7. REMARKS AND ADDITIONAL INFORMATION

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.

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

# STATE ENGINEER OFFICE WELL RECORD

O

Page 94 of 129

| 15'98
| Revised June 1972

#### Section 1. GENERAL INFORMATION

Well was drille	d under Permit	No. <u>#1-1</u>	0,817	<del></del>	and is located	in the:		
<b>å.</b>	_ ¼ ¼	SW & S	E % of Section	7	_ Township _	11-S. Range	33-E•	,
b. Tract	No	of Map No.		of the .				
c Lot N	lo	of Block No		of the				
						System		
			lo Con Wall					
						License NoW		
						·····		
Drilling Began	6/5/98	Comp	leted6/5/	/98	Type tools re	otary	_ Size of hole _	7
Elevation of la	nd surface or _			at well	is	ft. Total depth of	well 1	.25
						r upon completion of		
Completed we			ion 2. PRINCIPA	,		•	Well	
Depth	in Feet	Thickness					Estimated ?	Y iel
From	То	in Feet	Desci	iption of w	ater-Bearing I	ormation	(gallons per n	ninu
65	122	57		Sand			40 GPM	
							•	
				· · · · · ·				•
			· · · · · · · · · · · · · · · · · · ·		····			
	L	<u> </u>	<b>.</b>			<u> </u>		
Diameter	Pounds	Threads	Section 3. Depth in Fe		F CASING Length		Perfor	eti-
(inches)	per foot	per in.		ottom	(feet)	Type of Shoe	From	
5711	•250	T&C			125	none	65	1
<del></del>								
	<del></del>	Section	on 4. RECORD O	E MUDDIA	IC AND CEM	ENTING	<u></u>	
		Hole	Sacks	Cut	ic Feet		of Placement	
	in Feet				Cement	method (	of Fiscement	
Depth From	in Feet To	Diameter	of Mud	01 (		<del></del>		
		Diameter	Of Mug	OI (		77-Ti		
		Diameter	or mug	OI (				
		Diameter	or mug	OI (				
		Diameter			PECON	1		
From	То		Section 5. I	PLUGGING	RECORD	7		
From Plugging Contra	To		Section 5. I	PLUGGING		Depth in Fee		
Plugging Contra Address ———————————————————————————————————	actor		Section 5. I	PLUGGING	RECORD No.			
Plugging Contra	actor		Section 5. I	PLUGGING	No. 1 2			
Plugging Contra Address ———————————————————————————————————	actor		Section 5. I	PLUGGING	No.			pic I Cem

Section 7. REMARKS AND ADDITIONAL INFORMATION

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.

INSTRUCTIONS: This form should executed in triplicate, preferably typewritten is 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.

### **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 Rng Мар Sec Tws L 12006 POD2 SE NW NW 18 11S 33E 625386.5 3692537.3 \* UTM location was derived from PLSS - see Help **Driller License: 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: Shallow Log File Date: 2008-09-04 **PCW Rcv Date:** Source: Pump Type: **Pipe Discharge Size: Estimated Yield:** 

#### **Casing Perforations:**

6.63

**Depth Well:** 

Тор	Bottom
60	152

Casing Size:

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.

155

**Depth Water:** 

60

3/28/25 12:10 PM MST Point of Diversion Summary

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OSE FILE NUMBER For OSE Use Only

9/3/08

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

L PERMIT HOLDER(S)			
Name: PEARCE TRUST	Name:		
Name: PEARCE TRUST Address: 1717 JACKSON	Address:		
City: PECOS State: TX Zip: 79772	City:		
State: 1X Zip: 79772 Phone:	State: Zip:		
Contact:	mone.		•
Contact Phone:	·		
2. STATE ENGINEER REFERENCE NUMB File# <u>L-12006</u> , Wel			
3. LOCATION OF WELL (The Datum Is Assu	med To Be WGS 84 Unless Otherwise Specified	)	
Latitude: N 33° Deg 21 Longitude: W 103° Deg 39 (Enter Lat/Long To A	Min 53.16 Sec		
Longitude: W 103° Deg 39	Min 8.05 Sec		
Enter Lat/Long To A Datum If Not WGS 84: SE <u>是 NW是 NW是 SI</u>	1 Least 1/10 <sup>th</sup> Of A Second) EC.18,T11-S,R33-EAST		
4. DRILLING CONTRACTOR			
License Number: <u>WD 421</u> Name: <u>GLENN'S WATER WELL SER</u> '	VICE. Work Phone: 505-398-2424		
Drill Rig Serial Number: 0582		***************************************	٠.
Drift Rig Seriai Number: 0302		23	ROS
List The Name Of Each Drill Rig Supervisor The Process:		S	≘ר
CURKY GLENN			
		<b>-</b>	
			<b>₹</b> ₩
		₩	<u> </u>
	<del></del>		6
			ُص بَبَرْ
5. DRILLING RECORD			
Drilling Began: 8/27/08; Completed:	8/27/08; Drilling Method ROTARY M	UD ;	
Diameter Of Bore Hole: (in);			
Total Depth Of Well: 155	(fi):		
Completed Well Is (Circle One) (Shallow) Artes			
Depth To Water First Encountered: 60 '			
Depth To Water Upon Completion Of Well: _6	<u>0                                    </u>		
D. No. Water D. L. The			
TRN Number: 48 5546	is Line	1220	4
Form: wr-20 May 07	File Number: $L = 1$	1000	J J
·		2000	6
i	page 1 of 4		
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For OSE Use Only		

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

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	For OSE Hen	Oak	

# NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

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

Minute.					
Dep (fee From		Thickness (Feet)	For Water Bearing Strata Enter The Estimated Yield in GPM	Color and Type of Material Encountered	
0	2_	2		SOIL	
2	2.8	26		CALECHE	
28	_6.0	3.2		SAND	
60	<u> 132</u>	72		WATER SAND	
132	138	6		GRAVEL AND CLAY	
138	150	12		SANDY CLAY	
150	<u>153</u>	_3		WHITE CLAY	
_153	_1.5.5_	2		RED CLAY	
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	For OSE Use Only

# NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

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he undersigned hereby certifies	that, to the best of his	or her knowledg	e and belief	the foregoing is	s a t
decorrect-record of the above d le this well record with the Offi					: Wil
ompletion of the well drilling.	ar ar an ama ang m	, ,			
lake Stem	9	13/08			
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orm wr-20 May 07	page 4	of 4			

# **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	Υ	Мар
	L 03765 POD3	SW	NE	SE	18	11S	33E	625737.0	3692363.0	•

\* UTM location was derived from PLSS - see Help

Driller License:	1058	Driller Company:	KEY'S DRILLING & PUMP SERVICE		
Driller Name:	KEY, CLINTO	N			
Drill Start Date:	2011-10-20	Drill Finish Date:	2011-10-28	Plug Date:	
Log File Date:	2011-11-16	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	13.25	Depth Well:	160	Depth Water:	83

#### **Water Bearing Stratifications:**

Тор	Bottom	Description
83	90	Sandstone/Gravel/Conglomerate
90	120	Sandstone/Gravel/Conglomerate
130	155	Sandstone/Gravel/Conglomerate

### **Casing Perforations:**

Тор	Bottom
45	125

#### **Meter Information**

Meter Number:	17331	Meter Make:	MCCROMETER
Meter Serial Number:	18-03392-06	Meter Multiplier:	100.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Gallons	Reading Frequency:	Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2012-01-01	2012	0.000	А	RPT		0.000	
2012-04-01	2012	163274.000	А	RPT		50.107	
2012-07-01	2012	289711.000	А	RPT		38.802	
2012-12-03	2012	589764.000	Α	RPT		92.083	
2013-04-08	2013	892561.000	Α	RPT		92.925	
2013-11-08	2013	169906.000	R	RPT	Meter Rollover	85.114	
2014-04-01	2014	326143.000	Α	RPT		47.947	
2014-07-01	2014	360719.000	Α	RPT		10.611	
2014-10-01	2014	372652.000	Α	RPT		3.662	
2015-01-01	2015	373282.000	Α	RPT		0.193	
2015-04-01	2015	469793.000	Α	RPT		29.618	
2015-07-01	2015	586490.000	Α	RPT		35.813	
2015-10-01	2015	597347.000	Α	RPT		3.332	
2016-01-01	2016	605145.000	Α	RPT		2.393	
2016-07-01	2016	642600.000	Α	RPT		11.495	
2016-10-01	2016	742827.000	А	RPT		30.759	
2017-01-02	2017	769841.000	Α	RPT		8.290	
2017-04-01	2017	801270.000	Α	RPT		9.645	
2018-01-01	2018	801270.000	Α	ар		0.000	
2018-04-13	2018	0.000	Α	ар		0.000	
2018-07-01	2018	150468.000	Α	ар		46.177	
2019-01-01	2019	337273.000	Α	ар		57.328	
2019-04-01	2019	444952.000	Α	ар		33.045	
2019-07-01	2019	535886.000	Α	ар		27.907	
2020-04-01	2020	730920.000	Α	ар		59.854	
2020-07-01	2020	952059.000	Α	dd		67.865	
2020-10-01	2020	133020.000	R	dd	Meter Rollover	55.535	
2021-01-01	2020	203424.000	Α	dd		21.606	
2021-04-01	2021	229906.000	Α	dd		8.127	

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2021-07-01	2021	275780.000	А	dd		14.078	
2021-10-01	2021	426379.000	Α	dd		46.217	
2022-01-01	2021	490297.000	А	dd		19.616	
2022-04-01	2022	509551.000	А	dd		5.909	
2022-07-01	2022	666601.000	Α	dd		48.197	
2022-10-01	2022	764835.000	Α	dd		30.147	
2023-01-01	2022	805862.000	Α	dd		12.591	
2023-08-13	2023	36378.000	R	jb	Meter Rollover	70.743	

#### **YTD Meter Amounts:**

Year	Amount
2012	180.992
2013	178.039
2014	62.220
2015	68.956
2016	44.647
2017	17.935
2018	46.177
2019	118.280
2020	204.860
2021	88.038
2022	96.844
2023	70.743

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.

3/28/25 12:34 PM MST Point of Diversion Summary

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**IPaC** 

U.S. Fish & Wildlife Service

# IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

### Location

Lea County, New Mexico



## Local office

New Mexico Ecological Services Field Office

**(**505) 346-2525

**(505)** 346-2542

2105 Osuna Road Ne

Albuquerque, NM 87113-1001

OT FOR CONSULTATION

# Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries<sup>2</sup>).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact <u>NOAA Fisheries</u> for <u>species under their jurisdiction</u>.

- 1. Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
- 2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

### **Birds**

NAME

Lesser Prairie-chicken Tympanuchus pallidicinctus

No critical habitat has been designated for this species.

<a href="https://ecos.fws.gov/ecp/species/1924">https://ecos.fws.gov/ecp/species/1924</a>

Northern Aplomado Falcon Falco femoralis septentrionalis

No critical habitat has been designated for this species.

### Insects

Monarch Butterfly Danaus plexippus
Wherever found
There is proposed critical habitat for this species. Your location does not overlap the critical habitat.
https://ecos.fws.gov/ecp/species/9743

# Critical habitats

https://ecos.fws.gov/ecp/species/1923

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

# Bald & Golden Eagles

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act <sup>2</sup> and the Migratory Bird Treaty Act (MBTA) <sup>1</sup>. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate avoidance and minimization measures, as described in the various links on this page.

Additional information can be found using the following links:

- Eagle Management <a href="https://www.fws.gov/program/eagle-management">https://www.fws.gov/program/eagle-management</a>
- Measures for avoiding and minimizing impacts to birds
   <a href="https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds">https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds</a>
- Nationwide avoidance and minimization measures for birds
   <a href="https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf">https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf</a>
- Supplemental Information for Migratory Birds and Eagles in IPaC
   <a href="https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action">https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action</a>

There are Bald Eagles and/or Golden Eagles in your project area.

#### **Measures for Proactively Minimizing Eagle Impacts**

For information on how to best avoid and minimize disturbance to nesting bald eagles, please review the <u>National Bald Eagle Management Guidelines</u>. You may employ the timing and activity-specific distance recommendations in this document when designing your project/activity to avoid and minimize eagle impacts. For bald eagle information specific to Alaska, please refer to <u>Bald Eagle Nesting and Sensitivity to Human Activity</u>.

The FWS does not currently have guidelines for avoiding and minimizing disturbance to nesting Golden Eagles. For site-specific recommendations regarding nesting Golden Eagles, please consult with the appropriate Regional <u>Migratory Bird Office</u> or <u>Ecological Services Field Office</u>.

If disturbance or take of eagles cannot be avoided, an <u>incidental take permit</u> may be available to authorize any take that results from, but is not the purpose of, an otherwise lawful activity. For assistance making this determination for Bald Eagles, visit the <u>Do I Need A Permit Tool</u>. For assistance making this determination for golden eagles, please consult with the appropriate Regional <u>Migratory Bird Office</u> or <u>Ecological Services Field Office</u>.

#### **Ensure Your Eagle List is Accurate and Complete**

If your project area is in a poorly surveyed area in IPaC, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the <a href="Supplemental Information on Migratory Birds">Supplemental Information on Migratory Birds</a> and <a href="Eagles">Eagles</a>, to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to bald or golden eagles on your list, see the "Probability of Presence Summary" below to see when these bald or golden eagles are most likely to be present and breeding in your project area.

#### Review the FAQs

The FAQs below provide important additional information and resources.

NAME BREEDING SEASON

#### Golden Eagle Aquila chrysaetos

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

https://ecos.fws.gov/ecp/species/1680

Breeds Dec 1 to Aug 31

### Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

#### Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

#### **Breeding Season** (

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

#### Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

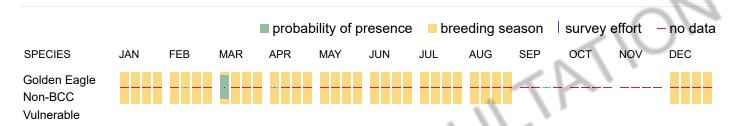
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

#### No Data (-)

A week is marked as having no data if there were no survey events for that week.

#### **Survey Timeframe**

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



### Bald & Golden Eagles FAQs

## What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey, banding, and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are an eagle (<u>Bald and Golden Eagle Protection Act</u> requirements may apply).

#### Proper interpretation and use of your eagle report

On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort line or no data line (red horizontal) means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide you in knowing when to implement avoidance and minimization measures to eliminate or reduce potential impacts from your project activities or get the appropriate permits should presence be confirmed.

#### How do I know if eagles are breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the <u>RAIL Tool</u> and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If an eagle on your IPaC migratory bird

species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

#### Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

#### How is the probability of presence score calculated? The calculation is done in three steps:

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

#### **Breeding Season ()**

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

#### Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

#### No Data ()

A week is marked as having no data if there were no survey events for that week.

#### **Survey Timeframe**

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

## Migratory birds

The Migratory Bird Treaty Act (MBTA) <sup>1</sup> prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service). The incidental take of migratory birds is the injury or death of birds that results from, but is not the purpose, of an activity. The Service interprets the MBTA to prohibit incidental take.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.

Additional information can be found using the following links:

- Eagle Management <a href="https://www.fws.gov/program/eagle-management">https://www.fws.gov/program/eagle-management</a>
- Measures for avoiding and minimizing impacts to birds
   https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC
   <a href="https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action">https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action</a>

#### **Measures for Proactively Minimizing Migratory Bird Impacts**

Your IPaC Migratory Bird list showcases <u>birds of concern</u>, including <u>Birds of Conservation</u> <u>Concern (BCC)</u>, in your project location. This is not a comprehensive list of all birds found in your project area. However, you can help proactively minimize significant impacts to all birds at your project location by implementing the measures in the <u>Nationwide avoidance and minimization</u> <u>measures for birds</u> document, and any other project-specific avoidance and minimization measures suggested at the link <u>Measures for avoiding and minimizing impacts to birds</u> for the birds of concern on your list below.

#### **Ensure Your Migratory Bird List is Accurate and Complete**

If your project area is in a poorly surveyed area, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the <a href="Supplemental Information on Migratory Birds and Eagles document">Supplemental Information on Migratory Birds and Eagles document</a>, to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

#### **Review the FAQs**

The FAQs below provide important additional information and resources.

NAME BREEDING SEASON

Ferruginous Hawk Buteo regalis

Breeds Mar 15 to Aug 15

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <a href="https://ecos.fws.gov/ecp/species/6038">https://ecos.fws.gov/ecp/species/6038</a>

#### Golden Eagle Aquila chrysaetos

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

https://ecos.fws.gov/ecp/species/1680

Breeds Dec 1 to Aug 31

#### Long-billed Curlew Numenius americanus

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <a href="https://ecos.fws.gov/ecp/species/5511">https://ecos.fws.gov/ecp/species/5511</a>

Breeds Apr 1 to Jul 31

#### Northern Harrier Circus hudsonius

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <a href="https://ecos.fws.gov/ecp/species/8350">https://ecos.fws.gov/ecp/species/8350</a>

Breeds Apr 1 to Sep 15

## **Probability of Presence Summary**

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

#### Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the

maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

#### Breeding Season (=)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

#### Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

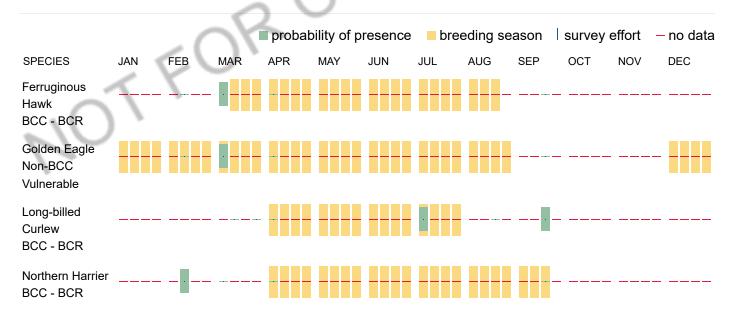
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

#### No Data (-)

A week is marked as having no data if there were no survey events for that week.

#### **Survey Timeframe**

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



#### Migratory Bird FAQs

Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Avoidance & Minimization Measures for Birds describes measures that can help avoid and minimize impacts to all birds at any location year-round. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is one of the most effective ways to minimize impacts. To see when birds are most likely to occur and breed in your project area, view the Probability of Presence Summary.

Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

### What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location, such as those listed under the Endangered Species Act or the <u>Bald and Golden Eagle Protection Act</u> and those species marked as "Vulnerable". See the FAQ "What are the levels of concern for migratory birds?" for more information on the levels of concern covered in the IPaC migratory bird species list.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey, banding, and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) with which your project intersects. These species have been identified as warranting special attention because they are BCC species in that area, an eagle (<u>Bald and Golden Eagle Protection Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, and to verify survey effort when no results present, please visit the <a href="Rapid Avian Information">Rapid Avian Information</a> Locator (RAIL) Tool.

#### Why are subspecies showing up on my list?

Subspecies profiles are included on the list of species present in your project area because observations in the AKN for **the species** are being detected. If the species are present, that means that the subspecies may also be present. If a subspecies shows up on your list, you may need to rely on other resources to determine if that subspecies may be present (e.g. your local FWS field office, state surveys, your own surveys).

## What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey, banding, and citizen</u> science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

#### How do I know if a bird is breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the <u>RAIL Tool</u> and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your IPaC migratory bird

species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

#### What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Bald and Golden Eagle Protection Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially BCC species. For more information on avoidance and minimization measures you can implement to help avoid and minimize migratory bird impacts, please see the FAQ "Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

#### Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

#### Proper interpretation and use of your migratory bird report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list does not represent all birds present in your project area. It is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide implementation of avoidance and minimization measures to eliminate or reduce potential impacts from your project activities, should presence be confirmed. To learn more about avoidance and minimization measures, visit the FAQ "Tell me about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

#### Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

#### How is the probability of presence score calculated? The calculation is done in three steps:

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

#### **Breeding Season ()**

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

#### Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

#### No Data ()

A week is marked as having no data if there were no survey events for that week.

#### **Survey Timeframe**

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

### **Facilities**

### National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

#### Fish hatcheries

There are no fish hatcheries at this location.

## Wetlands in the National Wetlands Inventory (NWI)

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

This location did not intersect any wetlands mapped by NWI.

**NOTE:** This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

#### **Data limitations**

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

#### **Data exclusions**

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

#### **Data precautions**

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATIO

## Appendix F Cultural Properties Protection Rule Documentation



Stephanie Garcia Richard COMMISSIONER

#### State of New Mexico Commissioner of Public Lands

310 OLD SANTA FE TRAIL P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

#### COMMISSIONER'S OFFICE

Phone (505) 827-5760 Fax (505) 827-5766 www.nmstatelands.org

#### MEMORANDUM

TO: E-Tech Environmental and Safety Solutions LLC

FROM: Carlyn Stewart, Trust Land Archaeologist

(505) 365-3800

cstewart@nmslo.gov

SUBJECT: E-Tech Environmental and Safety Solutions LLC

Remediation for: Shell State Tank Battery

T11S R33E S18 N.M.P.M. Lea County

REFERENCE: NMSLO Cultural Properties Protection Rule (19.2.24 NMAC)

DATE: **6/26/2025** 

Thank you for your submission relating to the Proponent's proposed remediation activities at Shell State Tank Battery Reclamation.. An archaeological survey of the entire area of potential effect has been completed (NMCRIS Activity No. 158512) and no cultural properties were identified. Pursuant to NMSLO 19.2.24.8 (C) NMAC, remediation may proceed.

If any cultural materials are inadvertently encountered during surface disturbance, work must cease within 50 feet and the NMSLO Cultural Resources Office must be notified immediately by emailing (<a href="mailto:CROinfo@slo.state.nm.us">CROinfo@slo.state.nm.us</a>). Please reach out if you have questions or need additional clarification.

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 484084

#### **QUESTIONS**

Operator:	OGRID:
3R Operating, LLC	331569
20405 State Highway 249	Action Number:
Houston, TX 77070	484084
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nPRS0413152570
Incident Name	NPRS0413152570 SHELL STATE #001 @ 30-025-22409
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-22409] SHELL STATE #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SHELL STATE #001
Date Release Discovered	03/16/2004
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Dump Valve   Produced Water   Released: 8 BBL   Recovered: 0 BBL   Lost: 8 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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Phone: (505) 629-6116 Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

#### **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr.

QUESTIONS, Page 2

Action 484084

**Santa Fe, NM 87505** 

QUESTI	IONS (continued)	
Operator:  3R Operating, LLC 20405 State Highway 249 Houston, TX 77070	OGRID:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		
Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No	
Reasons why this would be considered a submission for a notification of a major release	Unavailable.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.	
Initial Response  The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury.	
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
	lation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are require ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface it does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Austin Tramell Title: Director of environmental and regulatory Email: atramell@3roperating.com Date: 07/11/2025	

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116

Online Phone Directory
<a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS, Page 3

Action 484084

**QUESTIONS** (continued)

Operator:	OGRID:
3R Operating, LLC	331569
20405 State Highway 249	Action Number:
Houston, TX 77070	484084
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the	
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	Between 1 and 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 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	Between 1 and 5 (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Between 1 and 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	No	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to to	he appropriate district office no later than 90 days after the release discovery date	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	10300	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	11900	
GRO+DRO (EPA SW-846 Method 8015M)	9820	
BTEX (EPA SW-846 Method 8021B or 8260B)	2.3	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence 09/26/2025		
On what date will (or did) the final sampling or liner inspection occur	10/26/2025	
On what date will (or was) the remediation complete(d)	11/07/2025	
What is the estimated surface area (in square feet) that will be reclaimed	16200	
What is the estimated volume (in cubic yards) that will be reclaimed	2225	
What is the estimated surface area (in square feet) that will be remediated	6400	
What is the estimated volume (in cubic yards) that will be remediated 22800		
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to		

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 4

Action 484084

**QUESTIONS** (continued)

Operator:	OGRID:
3R Operating, LLC	331569
20405 State Highway 249	Action Number:
Houston, TX 77070	484084
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Remediation Plan (continued)	
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.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(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)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

er 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 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.

Name: Austin Tramell Title: Director of environmental and regulatory I hereby agree and sign off to the above statement Email: atramell@3roperating.com Date: 07/11/2025

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.

Released to Imaging: 8/15/2025 1:10:47 PM

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 5

Action 484084

**QUESTIONS** (continued)

Operator:	OGRID:
3R Operating, LLC	331569
20405 State Highway 249	Action Number:
Houston, TX 77070	484084
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Deferral Requests Only		
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.		
Requesting a deferral of the remediation closure due date with the approval of this submission	No	

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 6

Action 484084

**QUESTIONS** (continued)

Operator:	OGRID:
3R Operating, LLC	331569
20405 State Highway 249	Action Number:
Houston, TX 77070	484084
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	403610	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/19/2024	
What was the (estimated) number of samples that were to be gathered	30	
What was the sampling surface area in square feet	3000	

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

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 484084

#### **CONDITIONS**

Operator:	OGRID:
3R Operating, LLC	331569
20405 State Highway 249	Action Number:
Houston, TX 77070	484084
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. Sidewall/edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Please collect confirmation samples, representing no more than 200 ft2.	8/15/2025
rhamlet	If fluid reached tanks/equipment, sample up against tanks/equipment to ensure contaminants didn't go underneath. If the removal of contaminants under tanks/equipment could cause a major facility deconstruction, a formal deferral request will need to be submitted to the OCD Permitting Portal. All off-pad areas must meet reclamation standards in the OCD Spill Rule. The work will need to be completed in 90 days after the report has been reviewed.	8/15/2025