



May 8, 2023

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Accepted for the record. Incident cancelled due to not meeting reportable event of > 5 barrels of liquid. Operator must remediate volume discharged into the surrounding area and keep records for any future endeavor.

**Re: Release Characterization and Remediation Work Plan
Maverick Permian, LLC
EVGSAU 2923-054 Flowline Leak
Unit Letter C, Section 29, Township 17 South, Range 35 East
Lea County, New Mexico
Incident ID# nAPP2310154976**

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was contracted by Maverick Permian, LLC (Maverick) to assess a release that occurred from a subsurface flow line associated with the East Vacuum Grayburg San Andres Unit (EVGSAU) 2923-054. The release footprint is located north of Highway 50 and east San Andres Lane in Public Land Survey System (PLSS) Unit Letter C, Section 29, Township 17 South, Range 35 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.81006°,-103.48041° as shown in **Figure 1** and **Figure 2**.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, the release was discovered on March 14, 2023. The C-141 reports that the release occurred due to internal corrosion of a surface production flow line leading to a 5 barrel (bbl) spill of produced water off-pad. Approximately 2 bbls of produced water were reported as recovered by a vac-truck during the initial response. The NMOCD received the Initial C-141 on April 21, 2023, and subsequently assigned the release Incident ID nAPP2310154976. The initial C-141 Release notification form is included in **Attachment 1**.

1.1 SITE CHARACTERIZATION

Tetra Tech performed a site characterization for the release location which did not identify any watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains within the distances specified in 19.15.09 New Mexico Administrative Code (NMAC). Based on a review of the NMOCD Mapper The Site is in an area of low karst potential and there are probable playas located less than 0.5 miles from the Site, as shown in **Attachment 2**.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are three (3) water wells located within an 800-meter (approximately ½-mile) radius of the release location. The average depth to groundwater reported at these four wells is an average of 76 feet below ground surface (bgs), ranging from 55 to 90 feet bgs. None of the currently available depths to groundwater was recorded in the last 25 years. The site characterization data is included in **Attachment 2**.

Tetra Tech, Inc.

1500 CityWest Boulevard, Houston, Texas 77042
Tel +1.832.251.5160 | tetratech.com/oga | tetratech.com

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REGULATORY FRAMEWORK

Based upon the release footprint location and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chloride in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site assume the most conservative criteria for groundwater as less than 50 feet bgs as the available depth to groundwater information is greater than 25 years old. The remediation RRALs for the Site are as follows:

Closure Criteria for Soils Impacted by a Release

Constituent	Remediation RRAL
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC) (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

Reclamation Requirements

Constituent	Remediation RRAL
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg

INITIAL RESPONSE ACTIVITIES

The release occurred due to internal corrosion of a surface production flow line consisting of an approximately 1,760 square foot area in open pasture, as shown in **Figure 3**. According to site records, initial response actions were taken by Maverick at the release site on March 15, 2023. Maverick responded to the site by removing standing fluid and making an initial excavation/scrape of approximately the top 6 inches of impacted material. The scraped material was sent to R360 for disposal. Confirmation samples were not collected during the initial response activities. Tetra Tech conducted a visual site inspection on March 16, 2023, to document the release and initial scrape area. The area encompassing this initial scrape was approximately 3,970 square feet as shown in **Figure 3**.

1.2 SITE ASSESSMENT SUMMARY

On April 6, 2023, Tetra Tech personnel returned to the Site to conduct soil sampling to delineate the release extent and confirm the efficacy of the reported remediation activities conducted during the initial response. A total of seven (7) hand auger borings were installed to achieve horizontal delineation of the release. Hand auger borings (AH-1 through AH-5) were installed along the perimeter of the reported release extent to depths ranging from 0 to 1 foot

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bgs to horizontally delineate the release. Samples were collected from the 1 to 2 feet bgs interval at AH-1 and AH-2. Two additional hand auger borings, AH-6 and AH-7 were installed from 0 to 1 foot bgs in the center of the release area. Hand auger refusal was encountered between approximately 1 to 2 feet bgs due to hardpan soil material. Boring locations are presented in **Figure 4**.

A total of 10 samples were collected from the seven (7) borings and submitted to Cardinal Laboratory in Hobbs, New Mexico, for analysis of Total Petroleum Hydrocarbons (GRO, DRO, and EXT DRO) by EPA Method 8015M, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA Method SM4500Cl-B. Copies of the laboratory analytical data packages are included in **Attachment 3**.

SUMMARY OF SAMPLING RESULTS

Results from the April 6, 2023 soil sampling event are summarized in **Table 1**. The laboratory reported concentrations of chloride, TPH, and BTEX as less than RRALs and Reclamation Requirements in samples AH-1 through AH-5. Reported concentrations of chloride and TPH were greater than Reclamation Requirements in samples collected from AH-6 and AH-7 and reported concentrations of BTEX were greater than reclamation requirements in the sample collected from AH-6 in the 0 to 1 foot bgs interval. Photographic documentation of Site conditions at the time of the assessment is presented in **Attachment 4**.

REMEDIATION WORK PLAN

Based on the analytical results from the assessment, Maverick proposes to remove the impacted material within the release extent as shown in **Figure 5**. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to an approximate depth of 2 to 4 feet below the surrounding surface until representative samples from the excavation sidewalls and the floor of the excavation report concentrations of constituents as less than Site RRALs and Reclamation Requirements. Heavy equipment will come no more than two feet from any pressurized lines. Impacted soils within the vicinity of the surface and subsurface lines which intersect the release footprint will be excavated with hydro-vac excavation or dug by hand to the maximum extent practicable.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation floor and sidewall samples will be collected for verification of remedial activities and analyzed for TPH, BTEX, and chloride. Once analytical results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is between 227 to 454 cubic yards.

CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, Maverick proposes the following alternative confirmation sampling plan to adhere to NMOCD requirements. The proposed confirmation sample locations are depicted in **Figure 6**. Seven (7) confirmation floor samples and five (5) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 3,600 square feet.

These confirmation sidewall samples will be representative of approximately 200 square feet each and floor samples will be representative of no more than approximately 500 square feet of the excavated area. Confirmation samples will be submitted to Cardinal Laboratory for analysis of TPH (Method 8015 modified), BTEX (Method 8260B), and chloride (EPA SM4500Cl-B). Once results are received, NMOCD will be notified, and the excavation will then be backfilled with clean material to surface grade.

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SITE RECLAMATION AND RESTORATION PLAN

Post-remediation, the backfilled pasture areas will be seeded (in the next first favorable growing season) to aid in revegetation. Based on the soils at the site, gravelly loam, the New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture will be used for seeding and will be planted in the amount specified in pounds of pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a broadcaster and raked. If a broadcaster is used for dispersal, the quantity of PLS per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds PLS per acre are included in **Attachment 5**. Final reclamation will create a landform that approximates and blends in with the surrounding landform while controlling erosion.

CONCLUSION

Maverick proposes to begin remediation activities at the Site within 120 days of NMOCD plan approval. Upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD. If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (832) 252-2093.

Sincerely,



Steve Jester
Program Manager
Tetra Tech, Inc.



Charles H. Terhune IV, P.G.
Program Manager
Tetra Tech, Inc.

cc: Bryce Wagoner, Maverick Permian, LLC
New Mexico State Land Office

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LIST OF ATTACHMENTS

Figures

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Site Features
- Figure 4 – Site Assessment Map
- Figure 5 – Proposed Remediation Extent
- Figure 6 – Confirmation Sampling Plan

Tables

- Table 1 – Summary of Analytical Results – Soil Assessment

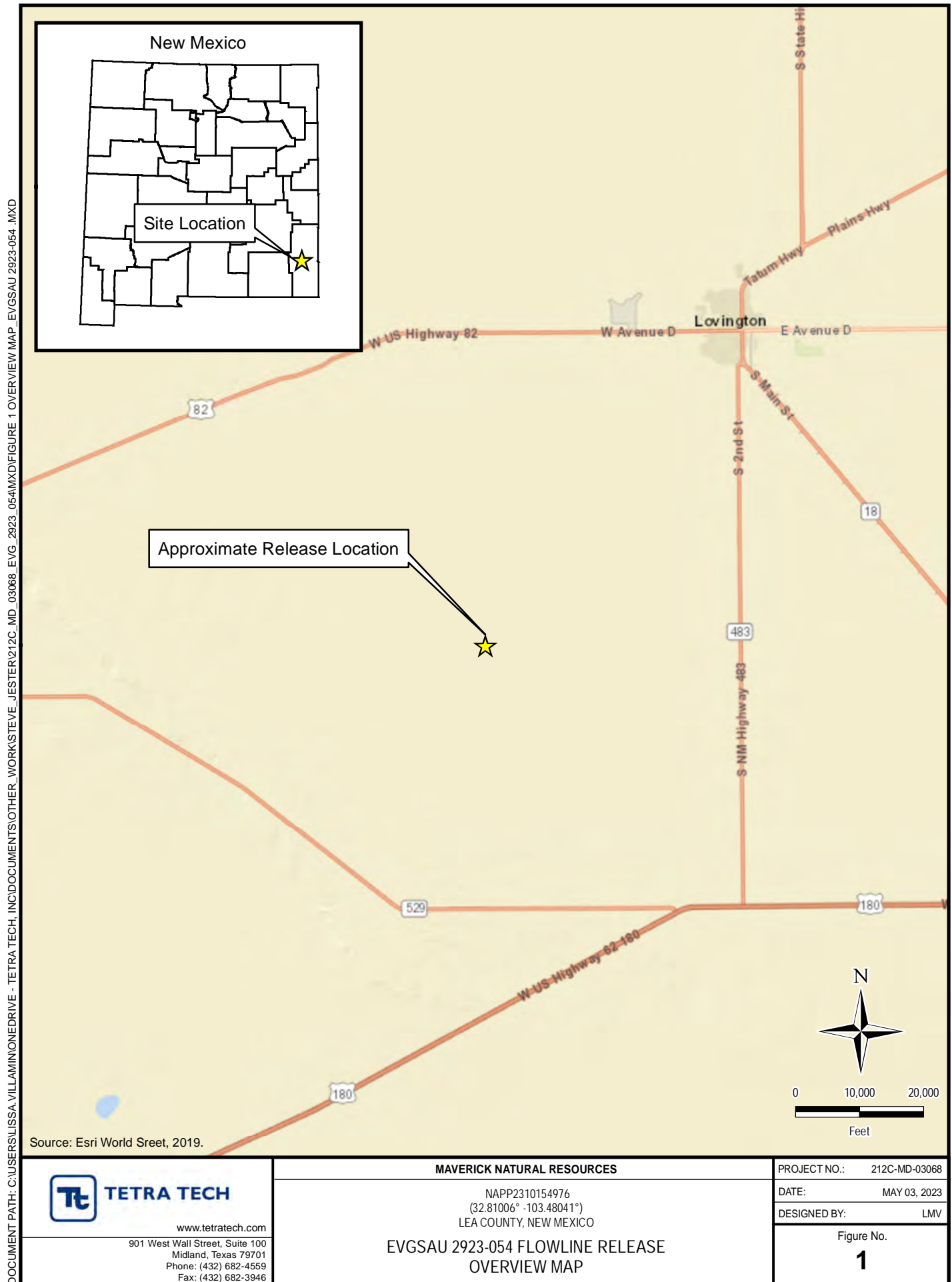
Attachments

- Attachment 1 – C-141 Forms
- Attachment 2 – Site Characterization Data
- Attachment 3 – Laboratory Analytical Data
- Attachment 4 – Photographic Documentation
- Attachment 5 – NMSLO Seed Mixture Details

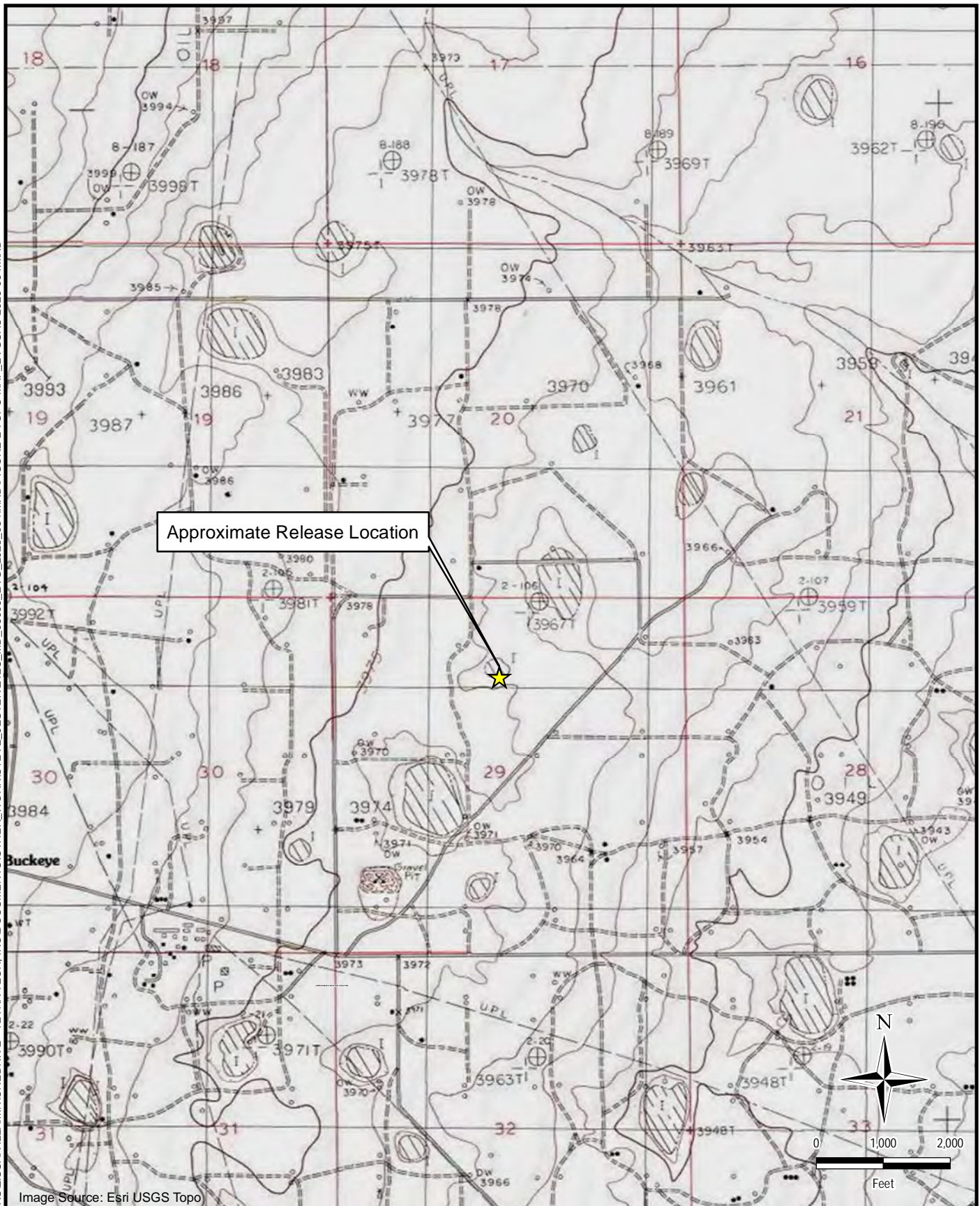
Release Characterization Work Plan
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FIGURES



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**TETRA TECH**

www.tetrattech.com

901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

MAVERICK NATURAL RESOURCES

NAPP2310154976
(32.81006° -103.48041°)
LEA COUNTY, NEW MEXICO

**EVGSAU 2923-054 FLOWLINE RELEASE
TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-03068

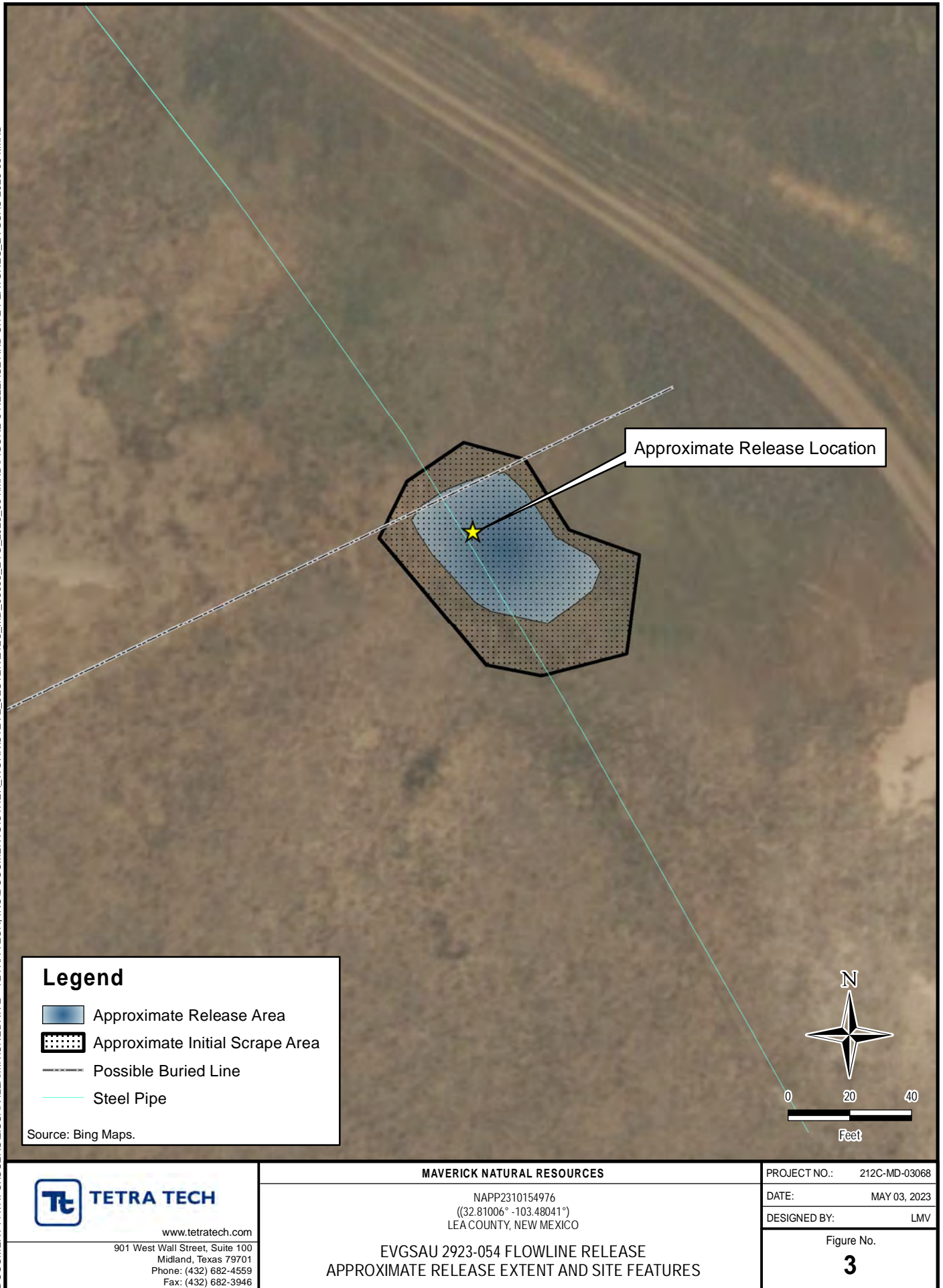
DATE: MAY 03, 2023

DESIGNED BY: LMV

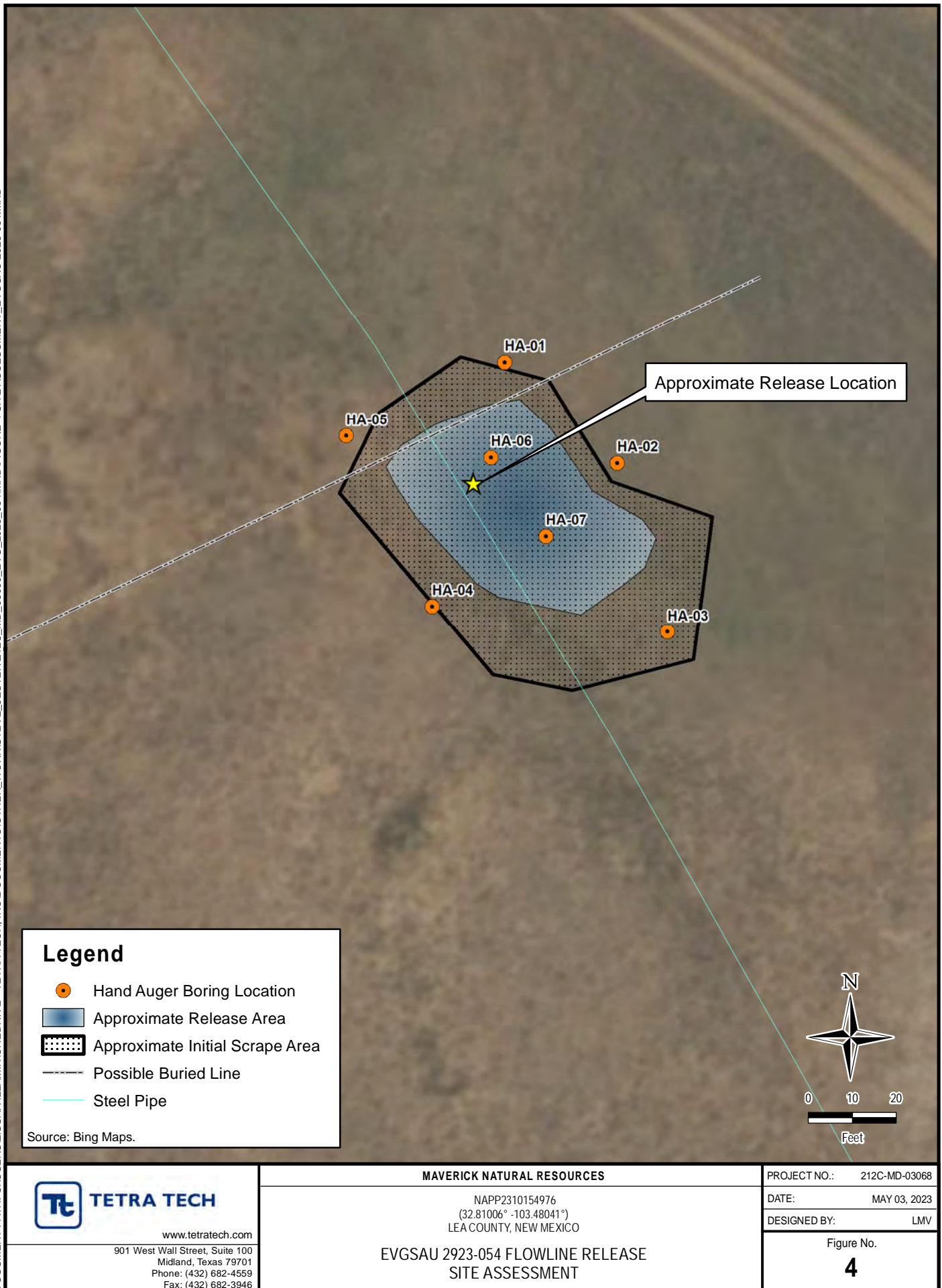
Figure No.

2

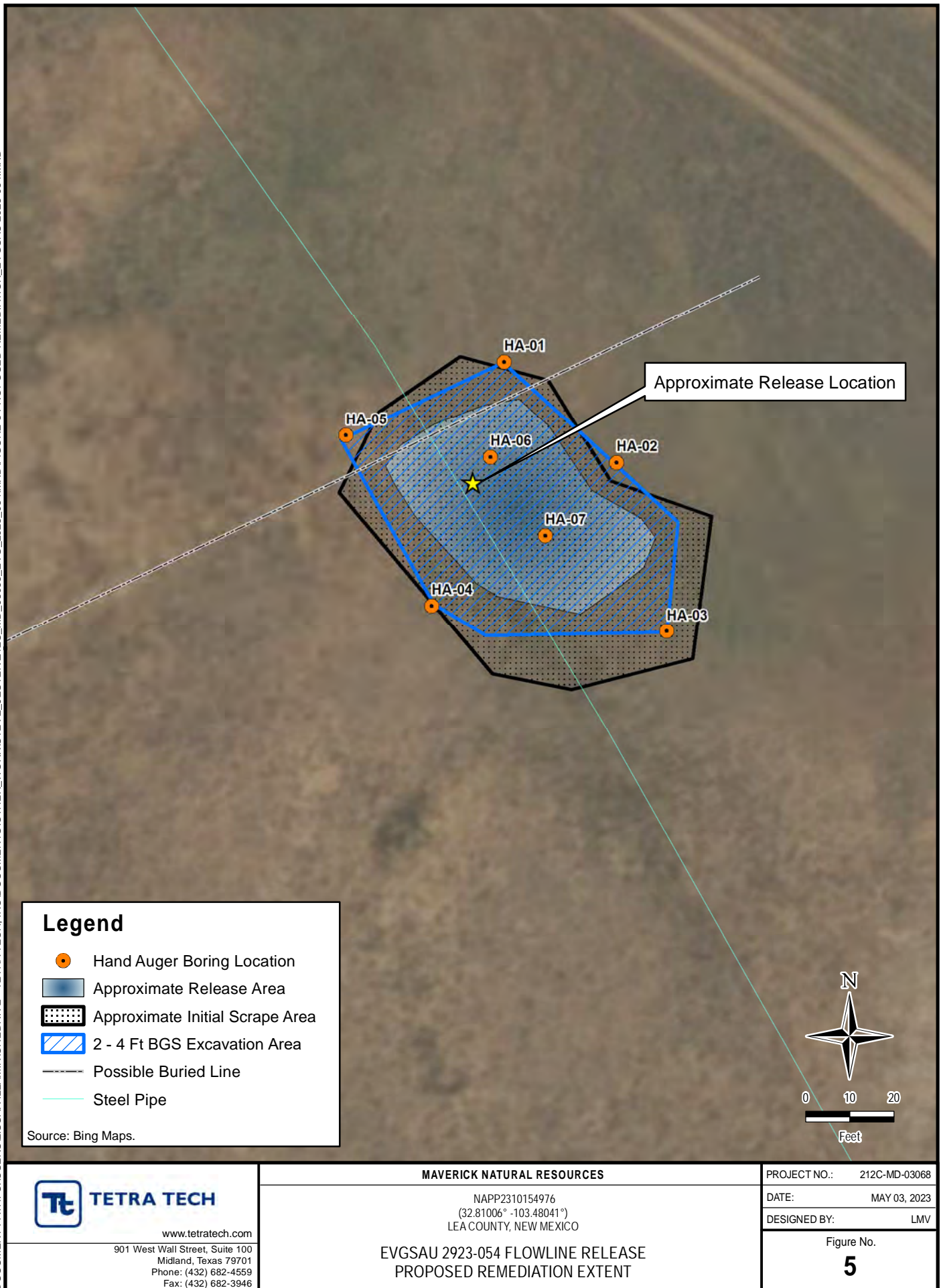
DOCUMENT PATH: C:\USERS\LISSA.VILLAMINIONEDRIVE - TETRA TECH, INC\DOCUMENTS\OTHER_WORK\STEVE_JESTER\212C_MD_MD_03068_EVG_2023_054\MXD\FIGURE 3 RELEASE AND SITE FEATURES_EVGSAU 2023-054.MXD



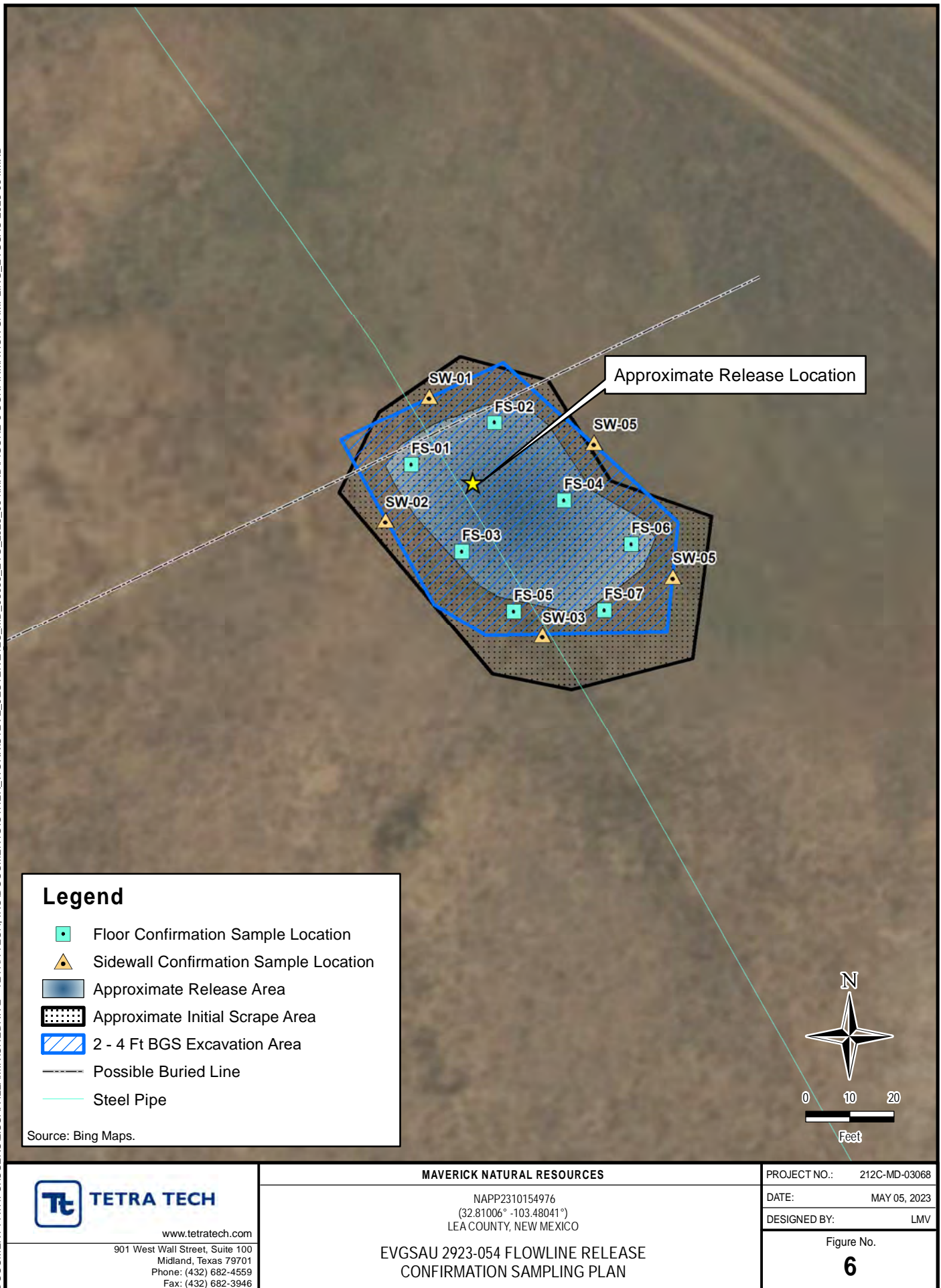
DOCUMENT PATH: C:\USERS\LISSA.VILLAMINIONEDRIVE - TETRA TECH, INC\DOCUMENTS\OTHER_WORK\STEVE_JESTER\212C_MD_03068_EVG_2923_054\MXD\FIGURE 4 SITE ASSESSMENT_EVGSAU 2923-054.MXD



DOCUMENT PATH: C:\USERS\LISSA.VILLAMINIONEDRIVE - TETRA TECH, INC\DOCUMENTS\OTHER_WORK\STEVE_JESTER\212C_MD_03068_EVG_2923_054\MXD\FIGURE 5 PROPOSED REMEDIATION_EVGSAU 2923-054.MXD



DOCUMENT PATH: C:\USERS\LISSA.VILLAMINIONEDRIVE - TETRA TECH, INC\DOCUMENTS\OTHER_WORK\STEVE_JESTER\212C_MD_03068_EVG_2923_054\MXD\FIGURE 6 CONFIRMATION SAMPLING_EVGSAU 2923-054.MXD



Release Characterization Work Plan
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TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
ASSESSMENT SAMPLING - INCIDENT ID NAPP2310154976
MAVERICK NATURAL RESOURCES
EVGSAU 2923-054 FLOWLINE RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
															C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆			
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29.13 NMAC)			600		10								50								100	
AH-1	4/6/2023	0 - 1	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
AH-1	4/6/2023	1 - 2	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
AH-2	4/6/2023	0 - 1	48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
AH-2	4/6/2023	1 - 2	16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
AH-3	4/6/2023	0 - 1	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
AH-4	4/6/2023	0 - 1	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
AH-5	4/6/2023	0 - 1	64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30	
AH-6	4/6/2023	0 - 1	4,480		20.2		137		98.1		202		457		6,410		16,300		2,660		25,370	
AH-6	4/6/2023	2 - 3	3,760		0.824		8.77		10		22.9		42.5		315		2,140		403		2,858	
AH-7	4/6/2023	0 - 1	8,000		0.544		7.79		12.7		28.5		49.5		931		8,480		1,530		10,941	

NOTES:

bgs: Below ground surface
mg/kg: Milligrams per kilogram

TPH: Total Petroleum Hydrocarbons
GRO: Gasoline Range Organics
DRO: Diesel Range Organics

1: Method SM4500Cl-B
2: Method 8021B
3: Method 8015M

Bold values indicate exceedance of Remediation RRLs or Reclamation Requirements, as applicable.

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ATTACHMENT 1 – C-141 FORMS

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2310154976
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Maverick Permian, LLC	OGRID	331199
Contact Name	Bryce Wagoner	Contact Telephone	(928) 241-1862
Contact email	Bryce.Wagoner@mavresources.com	Incident # (assigned by OCD)	nAPP2310154072
Contact mailing address	1410 NW County Road Hobbs, New Mexico 88240		

Location of Release Source

Latitude 32.81006 Longitude -103.48041
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	EVGSAU 2923-054	Site Type	Flowline Leak
Date Release Discovered	03/14/2023	API# (if applicable)	

Unit Letter	Section	Township	Range	County
C	29	17S	35E	Lea

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 4	Volume Recovered (bbls) 2
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

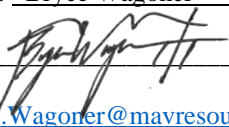
Internal corrosion of a surface production flow line leading to a 5 bbl spill off-pad. Two bbls of produced water were recovered with a vac-truck upon discovery.

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Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Not Applicable	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Bryce Wagoner</u>	Title: <u>Permian HSE Specialist</u>
Signature: 	Date: <u>4/21/2023</u>
email: <u>Bryce.Wagoner@mavresources.com</u>	Telephone: <u>(928) 241-1862</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>04/21/2023</u>

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Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

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

Printed Name: Bryce Wagoner Title: Permian HSE SpecialistSignature:  Date: 5.11.2023email: Bryce.Wagoner@mavresources.com Telephone: (928) 241-1862**OCD Only**Received by: Jocelyn Harimon Date: 05/12/2023

Incident ID	nAPP2310154976
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Facility ID	
Application ID	

Remediation Plan

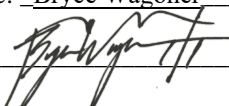
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Bryce Wagoner Title: Permian HSE Specialist
Signature:  Date: 5.11.2023
email: Bryce.Wagoner@mavresources.com Telephone: (928) 241-1862

OCD Only

Received by: Jocelyn Harimon Date: 05/12/2023

☐ Approved ☐ Approved v ☐ Denied ☐ Deferral Approved

Cancelled

Signature: _____ Date: _____

08/01/2023 - NV

Incident ID	nAPP2310154976
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Release Characterization Work Plan
Maverick Permian, LLC
EVGSAU 2923-054
Incident ID: nAPP2310154976

May 8, 2023

ATTACHMENT 2 – SITE CHARACTERIZATION DATA



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 01919 POD2	L	LE		1	1	2	29	17S	35E	642410	3631507*	305	209	55	154
L 04829 S4	L	LE			2	3	29	17S	35E	642121	3630598*	671	200	90	110
L 06940	L	LE		1	4	3	20	17S	35E	642001	3631907*	685	135	85	50

Average Depth to Water: **76 feet**

Minimum Depth: **55 feet**

Maximum Depth: **90 feet**

Record Count: 3

Basin/County Search:

County: Lea

UTM NAD83 Radius Search (in meters):

Easting (X): 642229.25

Northing (Y): 3631260.84

Radius: 800

*UTM location was derived from PLSS - see Help

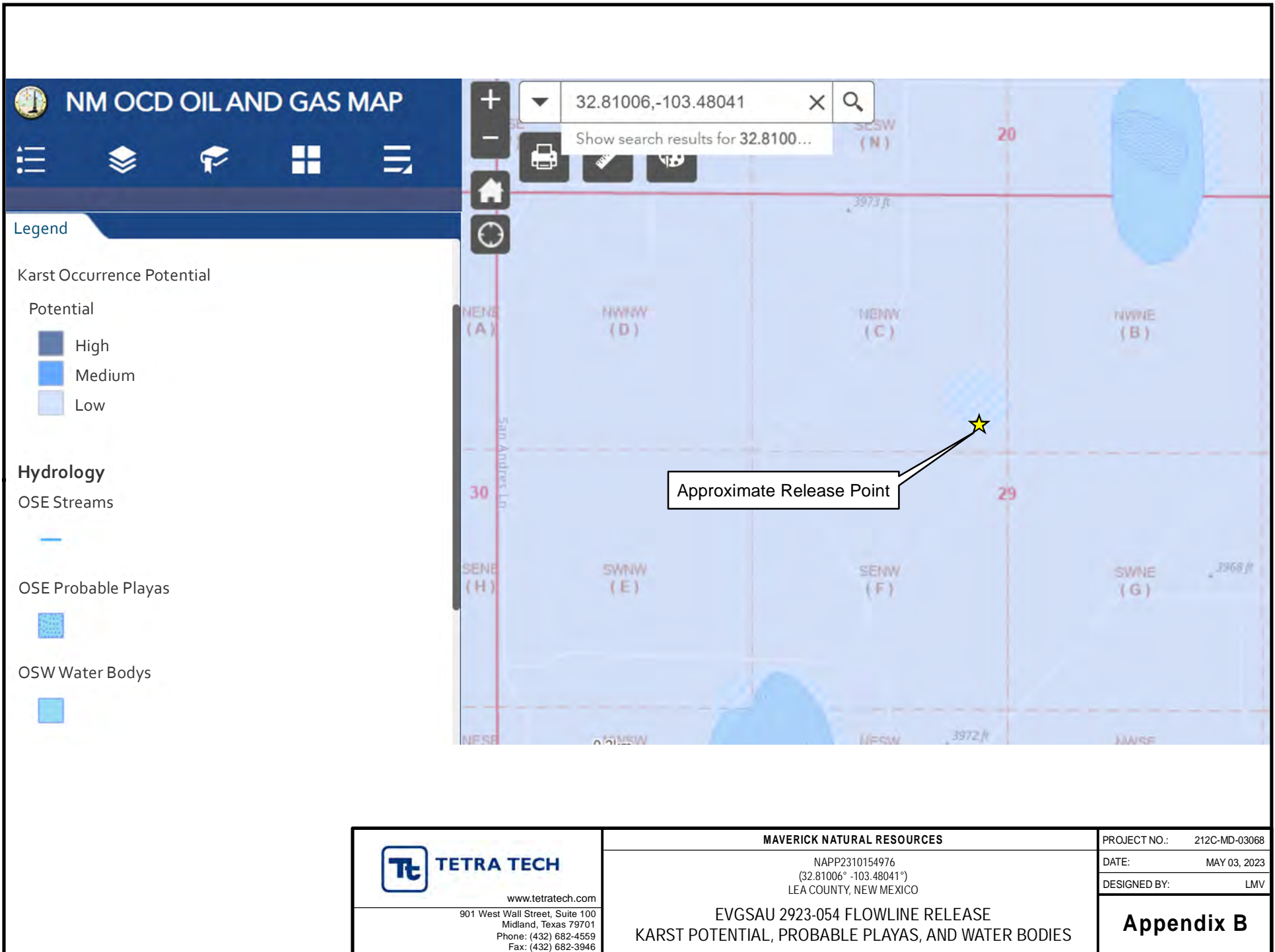
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/20/23 2:37 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

DOCUMENT PATH: C:\USERS\LUSSA.VILLAMONEDRIVE - TETRA TECH\INCDOCUMENTS\OTHER_WORK\STEVE_JESTER\212C_MD_03068_EVG_2023_054\MXD\APPENDIX B_EVGSAU 2923-054.MXD



Release Characterization Work Plan
Maverick Permian, LLC
EVGSAU 2923-054
Incident ID: nAPP2310154976

May 8, 2023

ATTACHMENT 3 – LABORATORY ANALYTICAL DATA



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

April 14, 2023

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU - 2923-054

Enclosed are the results of analyses for samples received by the laboratory on 04/10/23 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2923-054	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03068	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 1 (0-1') (H231664-01)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2023	ND	1.90	95.0	2.00	14.7		
Toluene*	<0.050	0.050	04/13/2023	ND	2.06	103	2.00	15.7		
Ethylbenzene*	<0.050	0.050	04/13/2023	ND	2.12	106	2.00	15.4		
Total Xylenes*	<0.150	0.150	04/13/2023	ND	6.40	107	6.00	14.7		
Total BTX	<0.300	0.300	04/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/13/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2023	ND	176	88.2	200	9.85	
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	218	109	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2923-054	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03068	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 1 (1-2') (H231664-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2023	ND	1.90	95.0	2.00	14.7		
Toluene*	<0.050	0.050	04/13/2023	ND	2.06	103	2.00	15.7		
Ethylbenzene*	<0.050	0.050	04/13/2023	ND	2.12	106	2.00	15.4		
Total Xylenes*	<0.150	0.150	04/13/2023	ND	6.40	107	6.00	14.7		
Total BTEx	<0.300	0.300	04/13/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/13/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2023	ND	176	88.2	200	9.85	
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	218	109	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2923-054	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03068	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 2 (0-1') (H231664-03)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2023	ND	1.90	95.0	2.00	14.7		
Toluene*	<0.050	0.050	04/13/2023	ND	2.06	103	2.00	15.7		
Ethylbenzene*	<0.050	0.050	04/13/2023	ND	2.12	106	2.00	15.4		
Total Xylenes*	<0.150	0.150	04/13/2023	ND	6.40	107	6.00	14.7		
Total BTX	<0.300	0.300	04/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/13/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2023	ND	176	88.2	200	9.85	
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	218	109	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2923-054	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03068	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 2 (1-2') (H231664-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2023	ND	1.88	94.0	2.00	3.24		
Toluene*	<0.050	0.050	04/13/2023	ND	1.95	97.5	2.00	2.87		
Ethylbenzene*	<0.050	0.050	04/13/2023	ND	2.10	105	2.00	2.28		
Total Xylenes*	<0.150	0.150	04/13/2023	ND	6.38	106	6.00	1.69		
Total BTX	<0.300	0.300	04/13/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/13/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2023	ND	176	88.2	200	9.85	
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	218	109	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2923-054	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03068	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 3 (0-1') (H231664-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2023	ND	1.88	94.0	2.00	3.24		
Toluene*	<0.050	0.050	04/13/2023	ND	1.95	97.5	2.00	2.87		
Ethylbenzene*	<0.050	0.050	04/13/2023	ND	2.10	105	2.00	2.28		
Total Xylenes*	<0.150	0.150	04/13/2023	ND	6.38	106	6.00	1.69		
Total BTEx	<0.300	0.300	04/13/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/13/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2023	ND	176	88.2	200	9.85	
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	218	109	200	14.4	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2923-054	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03068	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 4 (0-1') (H231664-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2023	ND	1.88	94.0	2.00	3.24		
Toluene*	<0.050	0.050	04/13/2023	ND	1.95	97.5	2.00	2.87		
Ethylbenzene*	<0.050	0.050	04/13/2023	ND	2.10	105	2.00	2.28		
Total Xylenes*	<0.150	0.150	04/13/2023	ND	6.38	106	6.00	1.69		
Total BTX	<0.300	0.300	04/13/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/13/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2023	ND	192	96.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	198	99.0	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2923-054	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03068	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 5 (0-1') (H231664-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2023	ND	1.88	94.0	2.00	3.24		
Toluene*	<0.050	0.050	04/13/2023	ND	1.95	97.5	2.00	2.87		
Ethylbenzene*	<0.050	0.050	04/13/2023	ND	2.10	105	2.00	2.28		
Total Xylenes*	<0.150	0.150	04/13/2023	ND	6.38	106	6.00	1.69		
Total BTX	<0.300	0.300	04/13/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/13/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/13/2023	ND	192	96.1	200	7.44	
DRO >C10-C28*	<10.0	10.0	04/13/2023	ND	198	99.0	200	7.25	
EXT DRO >C28-C36	<10.0	10.0	04/13/2023	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2923-054	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03068	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 6 (0-1') (H231664-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	20.2	2.00	04/14/2023	ND	1.88	94.0	2.00	3.24		
Toluene*	137	2.00	04/14/2023	ND	1.95	97.5	2.00	2.87		
Ethylbenzene*	98.1	2.00	04/14/2023	ND	2.10	105	2.00	2.28		
Total Xylenes*	202	6.00	04/14/2023	ND	6.38	106	6.00	1.69		
Total BTEX	457	12.0	04/14/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4480	16.0	04/13/2023	ND	400	100	400	3.92		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6410	100	04/13/2023	ND	192	96.1	200	7.44	
DRO >C10-C28*	16300	100	04/13/2023	ND	198	99.0	200	7.25	
EXT DRO >C28-C36	2660	100	04/13/2023	ND					

Surrogate: 1-Chlorooctane 328 % 48.2-134

Surrogate: 1-Chlorooctadecane 535 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2923-054	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03068	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 6 (1-2') (H231664-09)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.824	0.200	04/13/2023	ND	1.88	94.0	2.00	3.24	
Toluene*	8.77	0.200	04/13/2023	ND	1.95	97.5	2.00	2.87	
Ethylbenzene*	10.0	0.200	04/13/2023	ND	2.10	105	2.00	2.28	
Total Xylenes*	22.9	0.600	04/13/2023	ND	6.38	106	6.00	1.69	
Total BTEX	42.5	1.20	04/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 150 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	04/13/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	315	50.0	04/13/2023	ND	192	96.1	200	7.44	
DRO >C10-C28*	2140	50.0	04/13/2023	ND	198	99.0	200	7.25	
EXT DRO >C28-C36	403	50.0	04/13/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 154 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	04/10/2023	Sampling Date:	04/06/2023
Reported:	04/14/2023	Sampling Type:	Soil
Project Name:	EVGSAU - 2923-054	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03068	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA COUNTY, NM		

Sample ID: AH - 7 (0-1') (H231664-10)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.544	0.200	04/14/2023	ND	1.88	94.0	2.00	3.24	
Toluene*	7.79	0.200	04/14/2023	ND	1.95	97.5	2.00	2.87	
Ethylbenzene*	12.7	0.200	04/14/2023	ND	2.10	105	2.00	2.28	
Total Xylenes*	28.5	0.600	04/14/2023	ND	6.38	106	6.00	1.69	
Total BTEX	49.5	1.20	04/14/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 185 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	04/13/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	931	100	04/13/2023	ND	192	96.1	200	7.44	
DRO >C10-C28*	8480	100	04/13/2023	ND	198	99.0	200	7.25	
EXT DRO >C28-C36	1530	100	04/13/2023	ND					

Surrogate: 1-Chlorooctane 183 % 48.2-134

Surrogate: 1-Chlorooctadecane 345 % 49.1-148

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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 Celey D. Keene, Lab Director/Quality Manager



Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Maverick		Site Manager: Chuck Terhune	
Project Name: EVGSAU - 2923-054		(281) 755-8965 chuck.terhune@tetrattech.com	
Project Location: (county, state) Lea County, NM		Project #: 212C-MD-03068	
Invoice to: chuck.terhune@tetrattech.com			
Receiving Laboratory: Cardinal Labs		Sampler Signature: Miguel A. Flores	
Comments:			

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX			PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
		YEAR: 2023		WATER	SOIL		HCL	HNO ₃	ICE			
		DATE	TIME									
1	AH-1 (0-1')	4/6/2023		X				X				
2	AH-1 (1-2')	4/6/2023		X				X				
3	AH-2 (0-1')	4/6/2023		X				X				
4	AH-2 (1-2')	4/6/2023		X				X				
5	AH-3 (0-1')	4/6/2023		X				X				
6	AH-4 (0-1')	4/6/2023		X				X				
7	AH-5 (0-1')	4/6/2023		X				X				
8	AH-6 (0-1')	4/6/2023		X				X				
9	AH-6 (1-2')	4/6/2023		X				X				
10	AH-7 (0-1')	4/6/2023		X				X				

Inquired by: Miguel A Flores Date: _____ Time: _____	Received by: <i>Miguel A Flores</i> Date: _____ Time: 0930
Inquired by: _____ Date: _____ Time: _____	Received by: _____ Date: _____ Time: 4/10/23
Inquired by: _____ Date: _____ Time: _____	Received by: _____ Date: _____ Time: _____

LAB USE ONLY

Sample Temperature

4.8°C
C-D. 6°C
4.3°C

REMARKS:	Standard
----------	----------

☐ **RUSH:** Same Day 24 hr 48 hr 72 hr☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

#13

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Release Characterization Work Plan
Maverick Permian, LLC
EVGSAU 2923-054
Incident ID: nAPP2310154976

May 8, 2023

ATTACHMENT 4 – PHOTOGRAPHIC DOCUMENTATION









Release Characterization Work Plan
Maverick Permian, LLC
EVGSAU 2923-054
Incident ID: nAPP2310154976

May 8, 2023

ATTACHMENT 5 – NMSLO SEED MIXTURE DETAILS

NMSLO Seed Mix**Loamy (L)****LOAMY (L) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Sand dropseed	VNS, Southern	2.0	S
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
Forbs:			
Firewheel (<i>Gaillardia</i>)	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
Total PLS/acre		18.0	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.



Map Unit Description: Portales-Stegall loams---Lea County, New Mexico

Lea County, New Mexico

PS—Portales-Stegall loams

Map Unit Setting

National map unit symbol: dmqn

Elevation: 3,600 to 4,400 feet

Mean annual precipitation: 12 to 16 inches

Mean annual air temperature: 58 to 60 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Portales and similar soils: 45 percent

Stegall and similar soils: 40 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Portales

Setting

Landform: Plains

Landform position (three-dimensional): Dip

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous alluvium and/or calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: loam

Bk - 8 to 80 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 50 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: High (about 11.3 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Map Unit Description: Portales-Stegall loams---Lea County, New Mexico

Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: B
Ecological site: R077DY042TX - Limy Upland 12-17" PZ
Hydric soil rating: No

Description of Stegall

Setting

Landform: Plains
Landform position (three-dimensional): Dip
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from sedimentary rock

Typical profile

A - 0 to 9 inches: loam
Bt - 9 to 28 inches: clay loam
Bkm - 28 to 38 inches: cemented material
Bck - 38 to 60 inches: variable

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 20 to 40 inches to petrocalcic
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: R077DY042TX - Limy Upland 12-17" PZ
Hydric soil rating: No

Minor Components

Lea

Percent of map unit: 8 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Mansker

Percent of map unit: 7 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ

Map Unit Description: Portales-Stegall loams---Lea County, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 19, Sep 8, 2022

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 216444

CONDITIONS

Operator: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002	OGRID: 331199
	Action Number: 216444
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. Incident cancelled due to not meeting reportable event of > 5 barrels of liquid. Operator must remediate volume discharged into the surrounding area and keep records for any future endeavor.	8/1/2023