



McNabb Partners, LLC
Hobbs • Carlsbad • Midland
575.397.0050
www.mcnabbpartnersllc.com

August 26, 2024

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

RE: Revised Remediation and Reclamation Workplan
Incident ID: nAPP2331855166
Russell Fed 19-30 Release
Unit Letter K; Sec. 19; T26S.R32E. Lea County
32.0259172, -103.7170441

NMOCD:

McNabb Partners LLC submits this remediation and reclamation workplan on behalf of Sahara Operating Company. This report presents a revision to the remediation plan previously submitted by R.T. Hicks Consultants to NMOCD and rejected.

We relied on relevant portions of the R.T. Hicks Consultants' July 2024 submission for initial soil sample characterization Appendix A includes the relevant portions from the R.T. Hicks July 2024 submission:

- Site Map; Figure 1.
- Soil characteristics within the release extent (soil samples); Table 1.
- Photographic Summary
- Laboratory Certificates of Analysis.

This report also addresses the following rejection reasons dated July 15, 2024

- **Reasons for Rejection: 1. The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.**

Sahara Operating proposes to fully excavate impacted areas within the release extent until all bases and walls meet the most stringent closure criteria per 19.15.29 NMAC,

- *Upper 4-feet (most stringent closure criteria)*
 - *Chloride < 600 mg/kg*

Incident ID: nAPP2331855166

Russell Fed 19-30 Release

- $TPH (GRO + DRO + MRO) < 100 \text{ mg/kg}$
- $BTEX < 50 \text{ mg/kg}$
- $Benzene < 10 \text{ mg/kg}$

2. Release has not been horizontally delineated and did not meet the requirements of 19.15.29.11A (5b) which in turn does not comply with 19.15.29.12C (1c) NMAC.

Full horizontal and vertical delineation with confirmation soil sampling will be completed during remedial activities.

- **Proposing a final sampling plan for closure is not an applicable remediation method. OCD will not approve any site characterization and remediation plan; deferral request; closure request; sampling variance request; or any other type of variance request without the site meeting the delineation requirements of 19.15.29.11 NMAC and any additional requirements that are specific to the type of request being made.**

The release will be remediated to meet the most stringent Closure Criteria prior to requesting closure. The closure request will include soil confirmation samples showing horizontal and vertical delineation.

- **3. By selecting “yes” to the “Have the lateral and vertical extents of contamination been fully delineated” question located under the Remediation Plan section on the digital C-141 when the release has not been fully delineated is falsifying information unless the operator is proposing to fully delineate the release through excavation. Pursuant to 19.15.29.12C (3) NMAC, “The responsible party shall remediate the impacted surface area of a release not occurring on a lined, bermed, or otherwise contained exploration, development, production or storage site to meet the standards of Table I of 19.15.29.12 NMAC or other applicable remediation standards and restore and reclaim the area pursuant to 19.15.29.13 NMAC.” The upper four feet of the release area must meet the requirements of 19.15.29.13D (1) NMAC at the time of remediation.**

The digital reporting table will be updated to “No”. Full horizontal and vertical delineation with confirmation soil sampling will be completed during remedial activities.

- **4. All reclamation activities should adhere to 19.15.29.13 NMAC. Per 19.15.29.13D NMAC, Reclamation of areas no longer in use. The responsible party shall reclaim all areas disturbed by the remediation and closure, except areas reasonably needed for production operations or for subsequent drilling operations, as early and as nearly as practical to their original condition or their final land use and maintain those areas to control dust and minimize erosion to the extent practical.**

Incident ID: nAPP2331855166
Russell Fed 19-30 Release



Areas not on an active production pad in-use for oil and gas operations will be remediated, reclaimed, and restored according to 19.15.29.13.A-E.

5. The report does not propose a remediation technique; therefore, does not comply with 15.015.29.12C (1a through d) NMAC. Mechanical excavation and off-site disposal at an OCD approved facility (dig and haul) is the only remediation method that will always be approved without submitting a remediation plan to the OCD.

Sahara Operating proposes to dig-haul-dispose impacted material to meet the most stringent Closure Criteria of Table I of 19.15.29.12 NMAC.



1. Characterization

The following sections address items as described in 19.15.29.11.A, paragraphs 1- 4. Please refer to attached table below for additional setback criteria and verification.

1.1. *Site Map*

The R.T. Hicks submission mapped the release extent based on review of Google Earth imagery and foot survey of impacted ground surface (Appendix A; Figure 1). The release extent covered an area of approximately 2,510 square feet.

Plate 1 is a revised site map showing sample locations that exceed the most stringent Closure Criteria relative to the release extent provided by R.T. Hicks Consultants.

1.2. *Depth to Ground Water*

Estimated depth-to-water is greater than 100-feet below ground surface (Plate 2a and 2b). However, there are no water wells within ½-mile of the release extent. Therefore, remediation will be to the most stringent Closure Criteria per Table 1 of 19.15.29 NMAC and as presented in Section 2.

1.3. *Wellhead Protection Area*

Plate 3 shows that the release extent is:

- Not within incorporated municipal boundaries or within a defined municipal fresh water well field.
- Not within ½-mile of a documented water sources (wells and springs).
- Not 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.
- Not within 1000 feet of any other freshwater wells or springs.

1.4. *Distance to Nearest Significant Water Course*

Plate 4 shows the release extent is:

- Not within ½ mile of a significant water course.
- Not within 300 feet of a continuously flowing watercourse or any other significant watercourse.
- Not within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

Incident ID: nAPP2331855166
Russell Fed 19-30 Release



1.5. ***Soil/Waste Characteristics***

The USDA Natural Resources Conservation Service (NRCS) soil survey¹ describes the upper 2.2-feet of lithology as:

0 to 3% slopes with a composition of:

- *A - 0 to 8 inches: fine sandy loam*
- *Bk - 8 to 16 inches: gravelly fine sandy loam*
- *Bkm - 16 to 26 inches: cemented material*

Sampling events for site characterization were completed by R T Hicks Consultants. Summary of analytical is presented on Table 1 in Appendix A. Refer to Plate 1 showing sample point locations that either 1) meet Closure Criteria or 2) exceeds Closure Criteria.

Soil samples were analyzed for chloride, TPH, Benzene, and BTEX. Certificates of analysis are included in Appendix A.

Final horizontal and vertical delineation sampling will be achieved at the time of remediation, as discussed in Section 2 (Remediation and Reclamation).

¹ NRCS Field Guide and the NRCS web survey tool (<https://websoilsurvey.nrcs.usda.gov/app/>)

Incident ID: nAPP2331855166
 Russell Fed 19-30 Release

Site Characterization

What is the shallowest depth to groundwater (ft bgs) Plate 2a	C-04801 (POD-1) 225 ft bgs located 1.26 miles to the NW
What measure was used to determine this?	OSE database
Did this release impact ground or surface water?	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
<ul style="list-style-type: none"> A continuously flowing watercourse or any other significant watercourse. Plate 4 	Intermittent stream 1.98 miles to the SSE
<ul style="list-style-type: none"> Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark). Plate 4 	Lake/Pond 1.47 miles to the SSE
<ul style="list-style-type: none"> An occupied permanent residence, school, hospital, institution or church. Plate 5 	Ranch located 1.94 miles to the east
<ul style="list-style-type: none"> A spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes. Plate 3 	C-04801 (POD-1) 225 ft bgs located 1.26 miles to the NW
<ul style="list-style-type: none"> Any other fresh water well or spring. Plate 3 	C-04801 (POD-1) 225 ft bgs located 1.26 miles to the NW
<ul style="list-style-type: none"> Incorporated municipal boundaries or a defined municipal fresh water well field. Plate 3 	>5 miles
<ul style="list-style-type: none"> A wetland. Plate 6 	Freshwater Emergent Wetland 1.45 miles to the SSE
<ul style="list-style-type: none"> A subsurface mine. Plate 7 	>5 miles
<ul style="list-style-type: none"> A (non-karst) unstable area. 	>5 miles
<ul style="list-style-type: none"> Categorize the risk of this well/site being in a karst geology. Plate 8 	Medium
<ul style="list-style-type: none"> A 100-year floodplain. Plate 9 	1.57 miles to the SSW
Did the release impact areas not on an exploration, development, production, or storage site?	Yes



2. Remediation & Restoration Workplan

Sahara Operating proposes to excavate the area within the release extent until all bases and walls meet the most stringent Closure Criteria per Table 1 of 19.15.29 NMAC, as there are no water wells for depth-to-water determination within ½-mile of the release extent.

- Chloride < 600 mg/kg
- TPH (GRO + DRO + MRO) < 100 mg/kg
- BTEX < 50 mg/kg
- Benzene < 10 mg/kg

Confirmation soil samples will be obtained from the bases and walls of the excavation for laboratory analysis to meet Closure Criteria of the above listed constituents. Base and wall samples will represent an area no greater than 200 sq. ft.

Remediation Plan	
Requesting a remediation plan approval with this submission?	Yes
Have the lateral and vertical extents of the contamination been fully delineated (<i>attach report demonstrating lateral and vertical extents</i>)?	No. Will occur at the time of remediation.
Was this release entirely contained within a lined containment area?	No
Soil Contamination Sampling (Highest observable value for each in mg/kg)	
• Chloride	12,200
• TPH (DRO+GRO+MRO)	<39.6
• GRO+DRO	<29.6
• BTEX	<0.3
• Benzene	<0.05
On what estimated date will the remediation commence	10/07/2024
On what date will (or did) the final sampling or liner inspection occur	10/23/2024
On what date will (or was) the remediation completed	10/23/2024
What is the estimated surface area (in square feet) that will be reclaimed	2510
What is the estimated volume (in cubic yards) that will be reclaimed	558
What is the estimated surface area (in square ft) that will be remediated	2510
What is the estimated volume (in cubic yards) that will be remediated	558

Incident ID: nAPP2331855166
Russell Fed 19-30 Release

The remediation will (or is expected to) utilize the following processes to remediate/reduce contaminants:	
• Excavation and off-site disposal	Northern Delaware Basin Landfill
• Excavation and on-site disposal	
• Soil Vapor Extraction (in Situ)	
• Chemical processing (in Situ)	
• Biological processing (in Situ)	
• Physical processing (in Situ)	
• Groundwater abatement	
• Other (non-listed remedial process)	
• Other non-listed remedial process. Please specify	

Based on available analytical data, the depth of excavation is estimated at 6 ft below ground surface.

An estimated 558 cubic yards of material will be excavated and hauled off-site to Northern Delaware Basin Landfill for proper disposal. Remediation will begin within 45-days of workplan approval. Anticipate that project will be completed within 30 days thereafter. Upon confirmation horizontal and vertical delineation soil samples meeting the above closure criteria, we will submit a closure report within 45-days of laboratory results.

The area will be backfilled to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover will include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site.

The release extent will be restored, reclaimed and revegetated as an active right-of-way per 19.15.29.13.A-E NMAC. The southwest corner of the release extent will be reclaimed as pasture land and contoured to match existing topography. Disturbed areas will be seeded with NMSLO Sandy Loam (SL) Seed Mixture.

Please contact me with any questions at 970-570-9535.

Sincerely,



Andrew Parker
Environmental Manager
McNabb Partners
c: (970) 570-9535

August 26, 2024

Page 8 of 9

Incident ID: nAPP2331855166
Russell Fed 19-30 Release

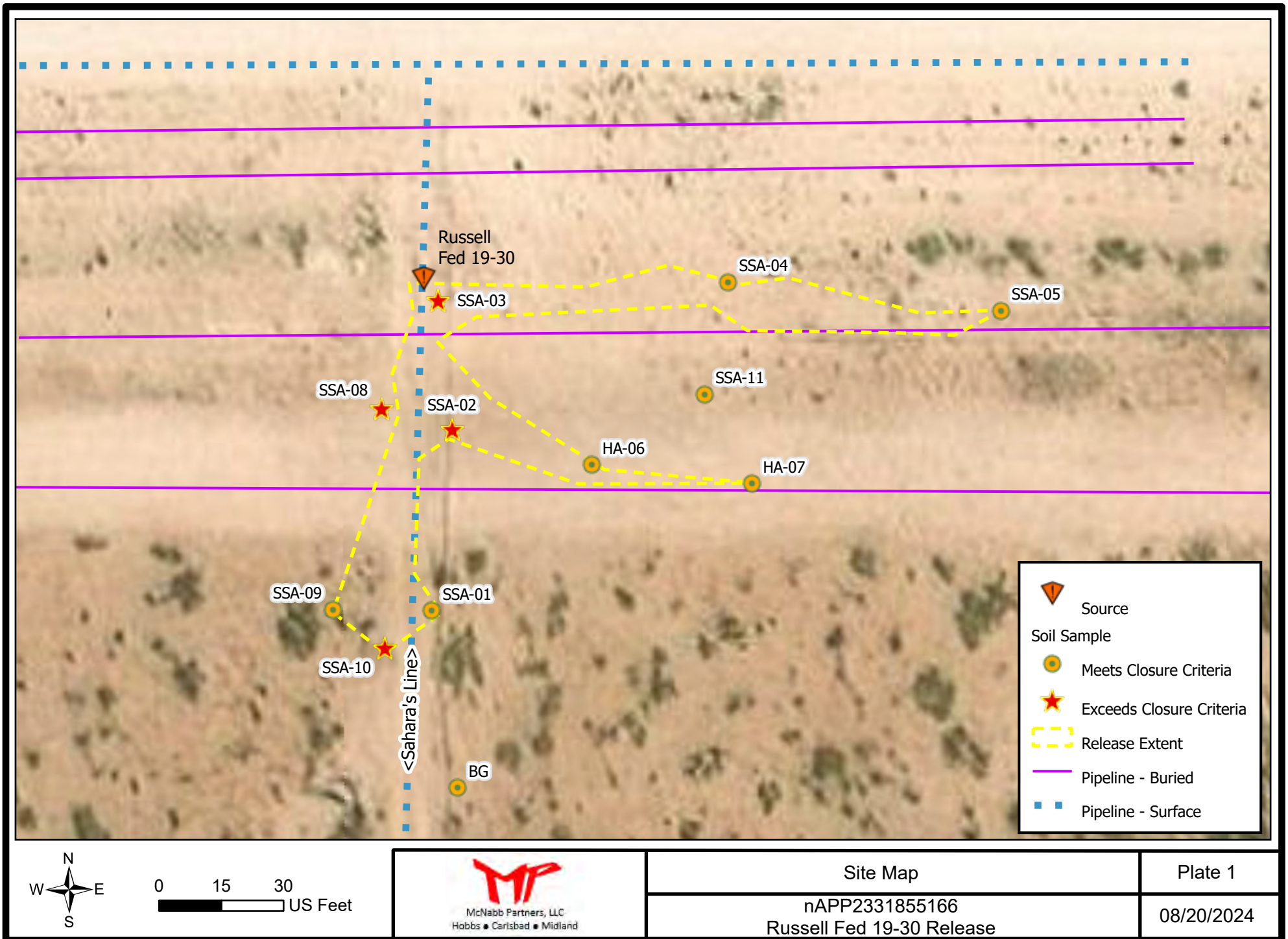


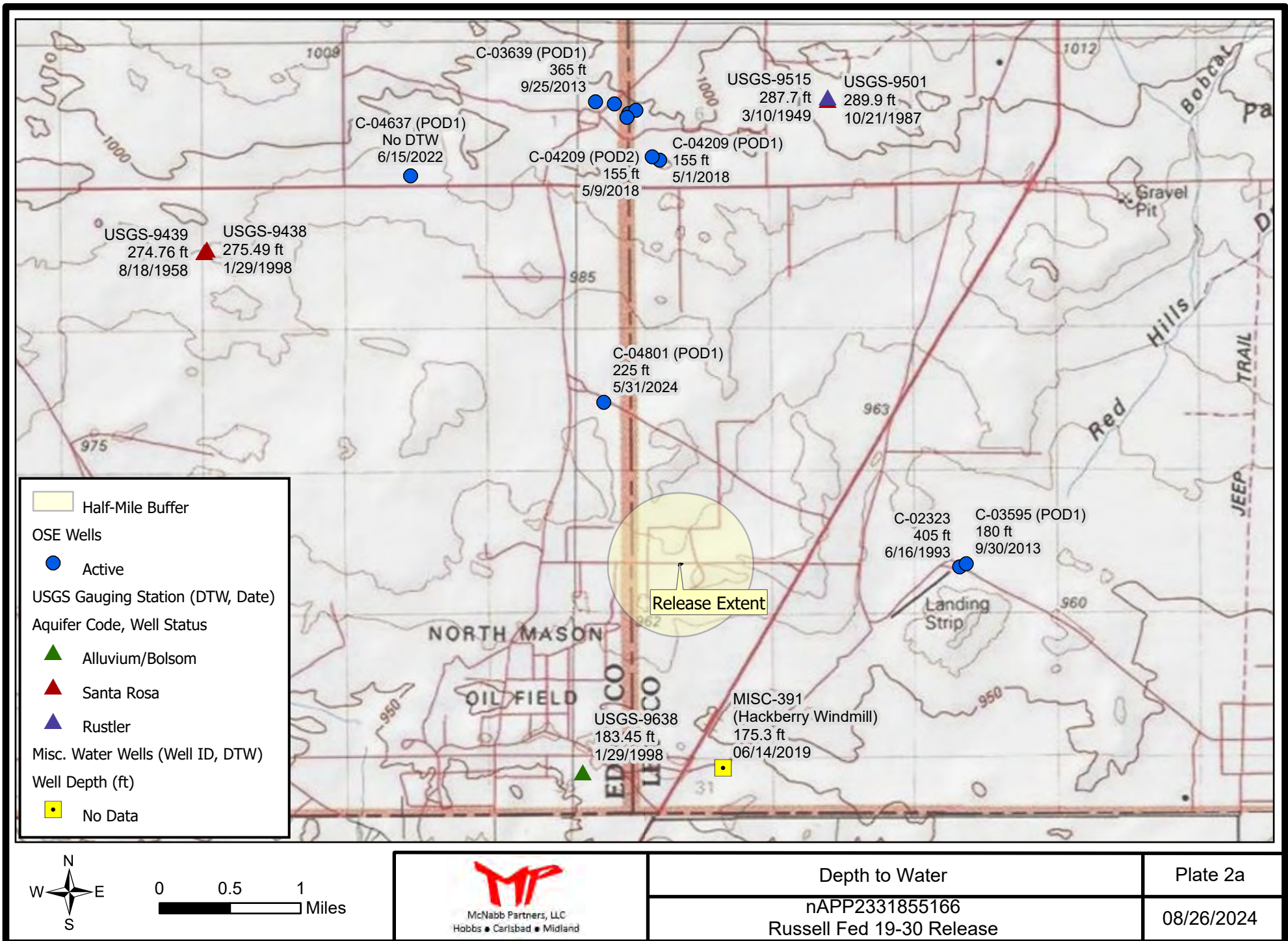
Copy: Rob McAlpine, Sahara Operating
BLM - Carlsbad Field Office, NM

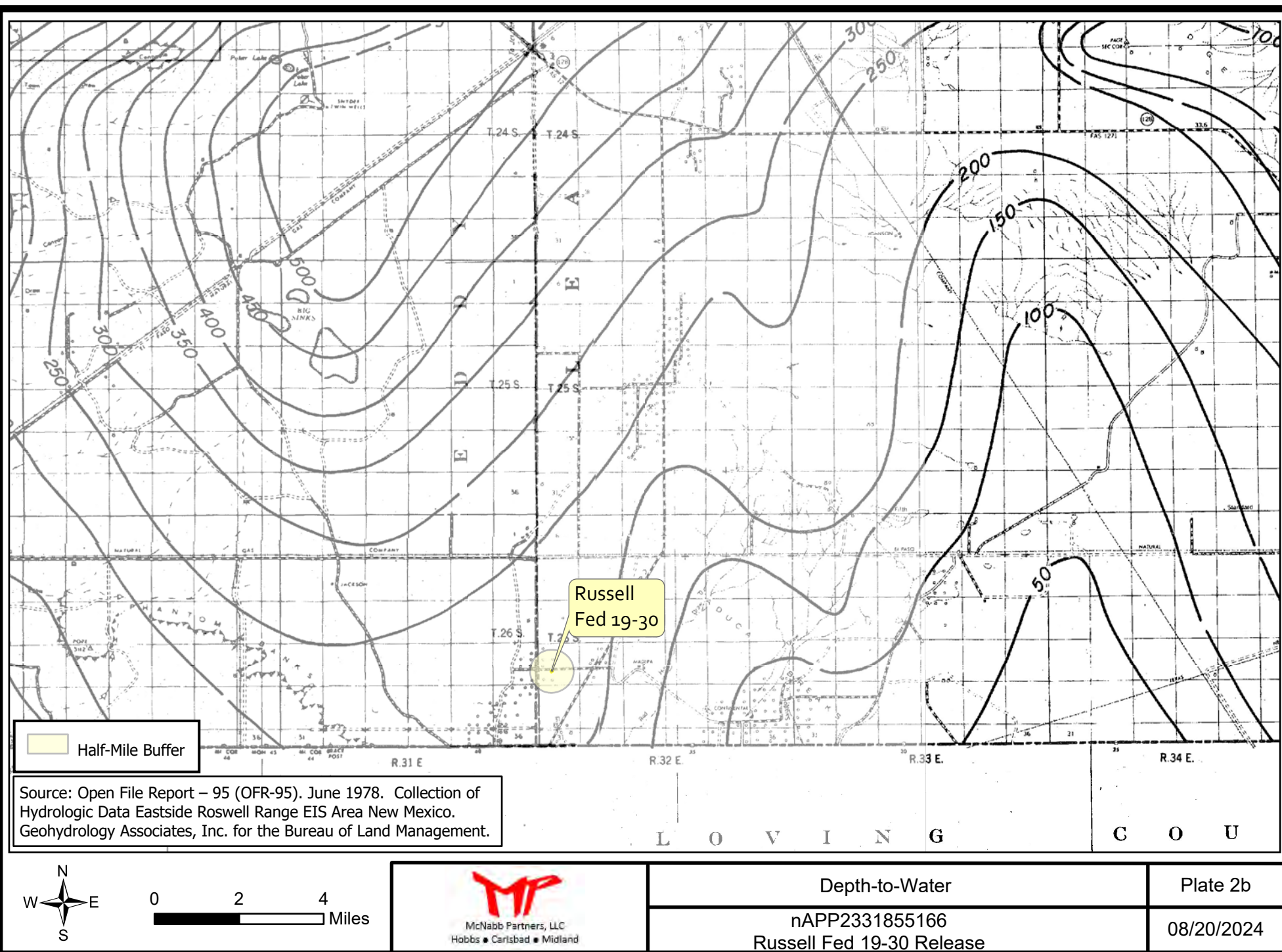
Plates

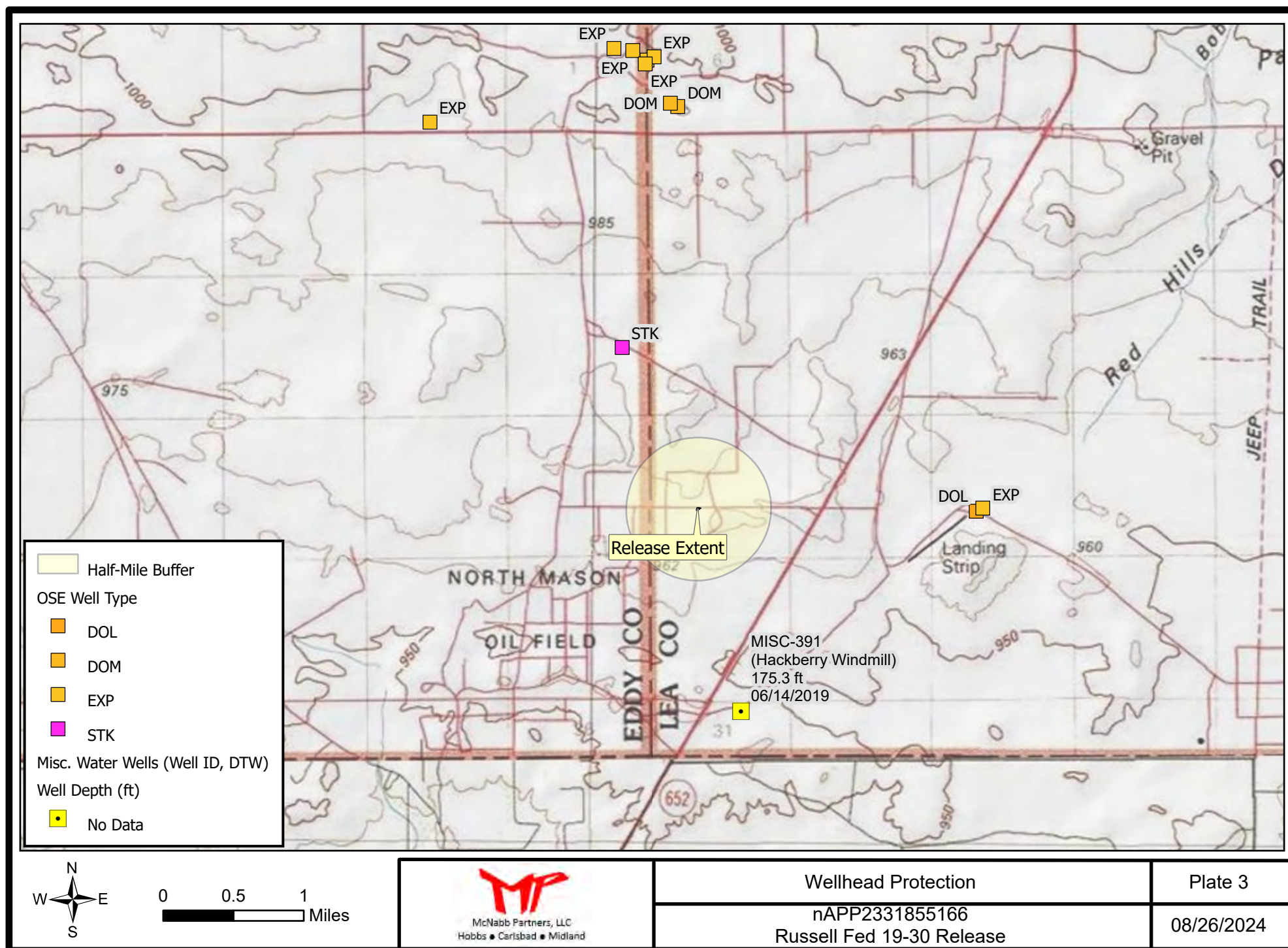


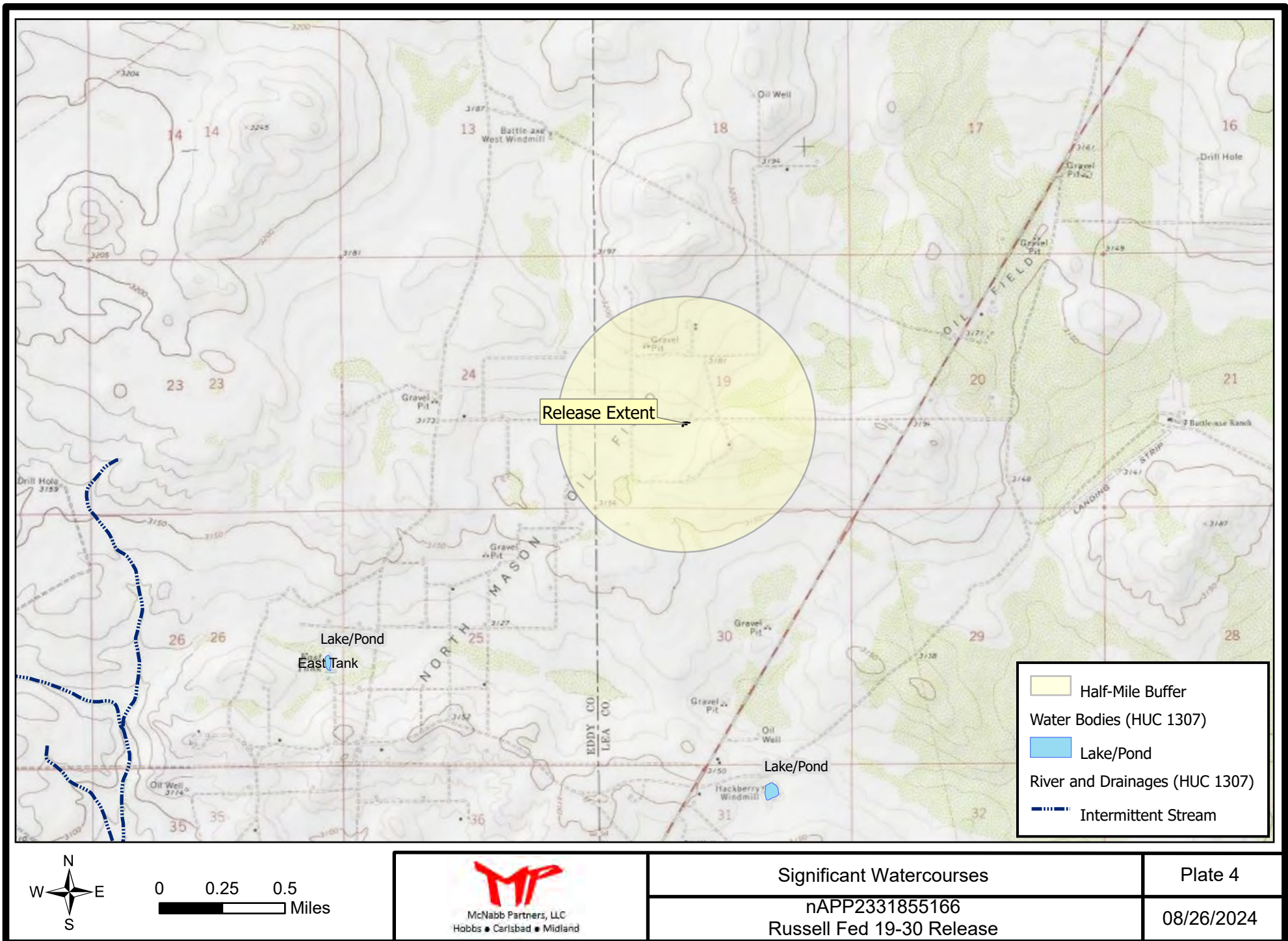
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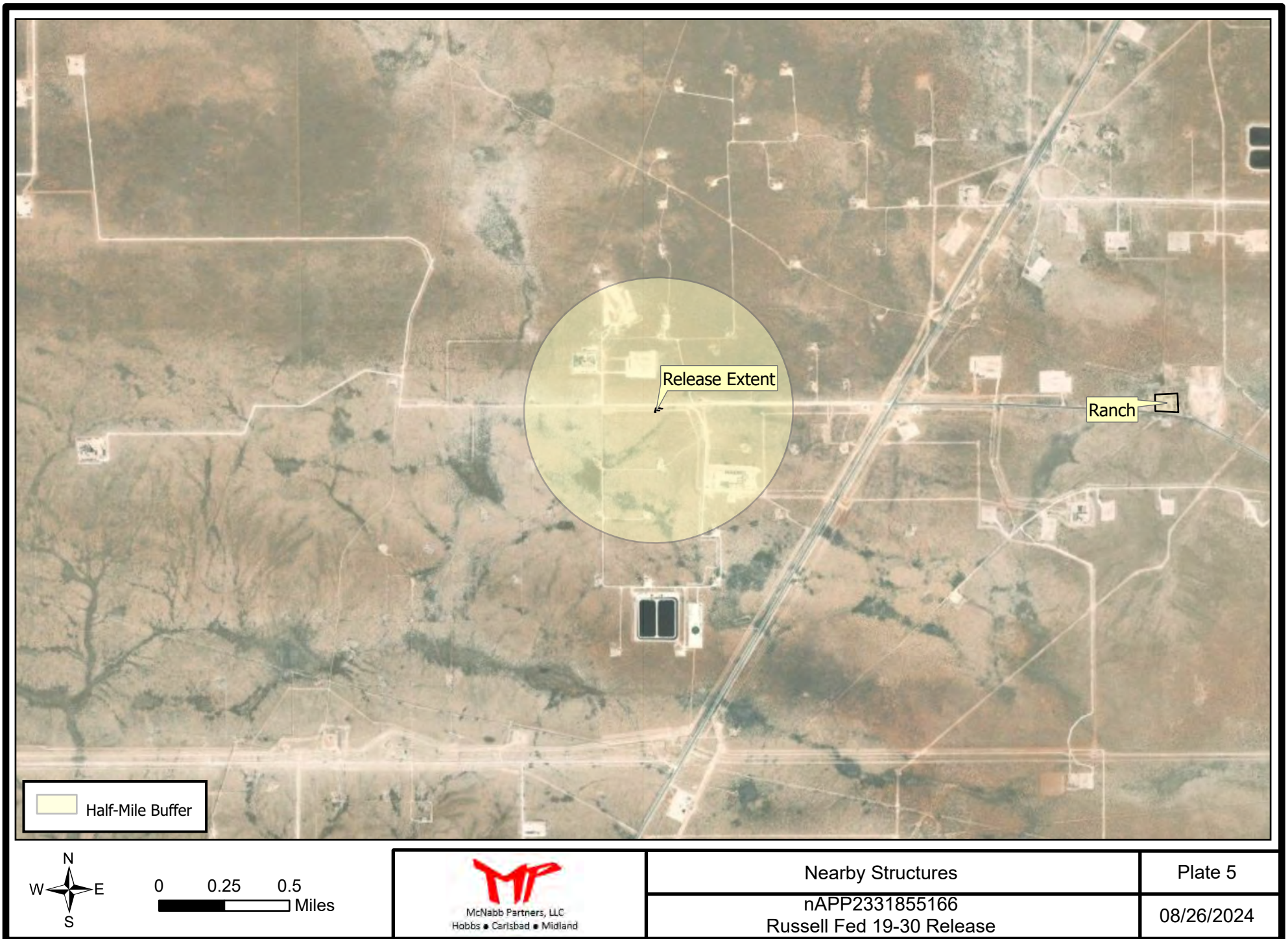


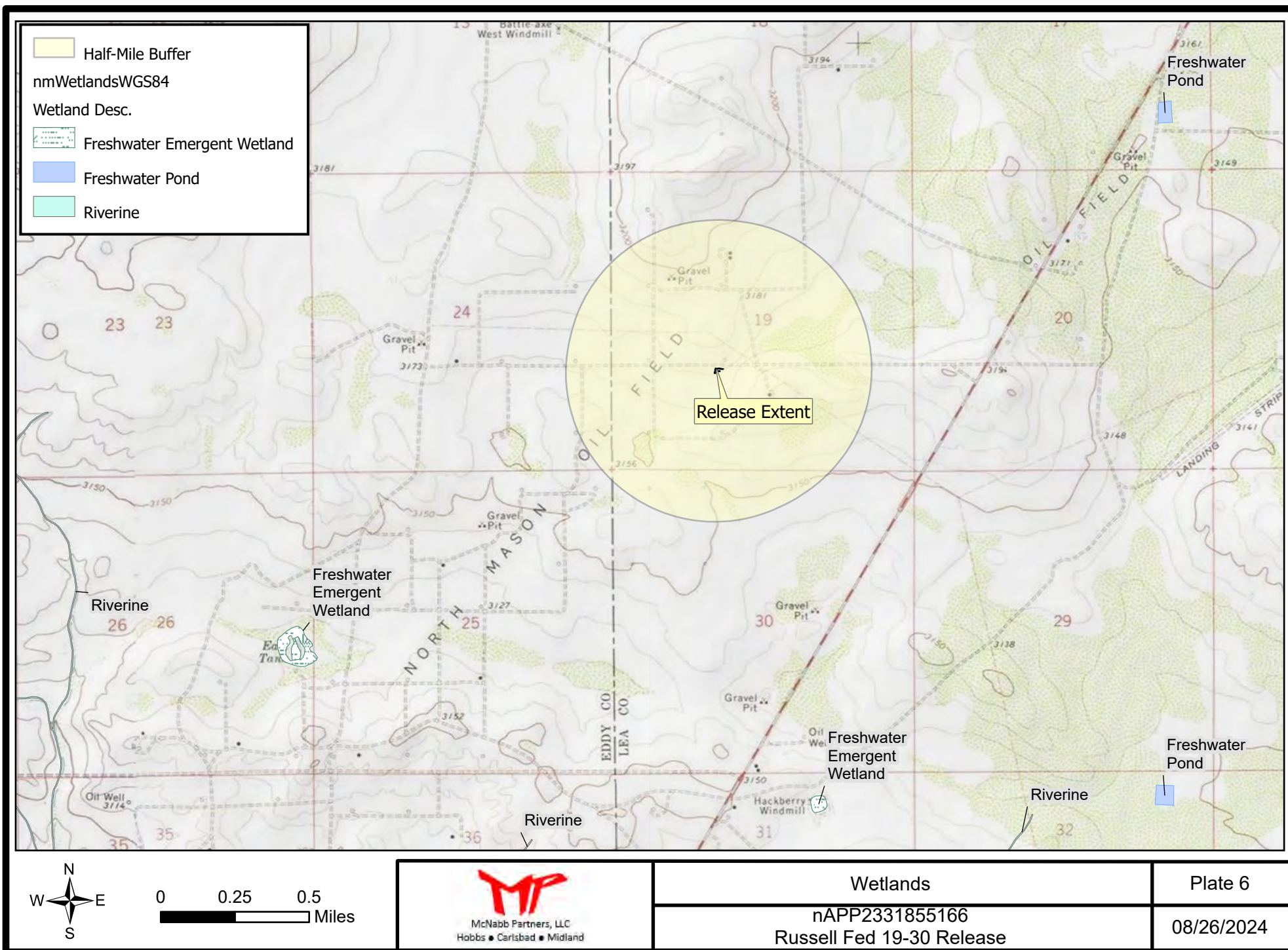


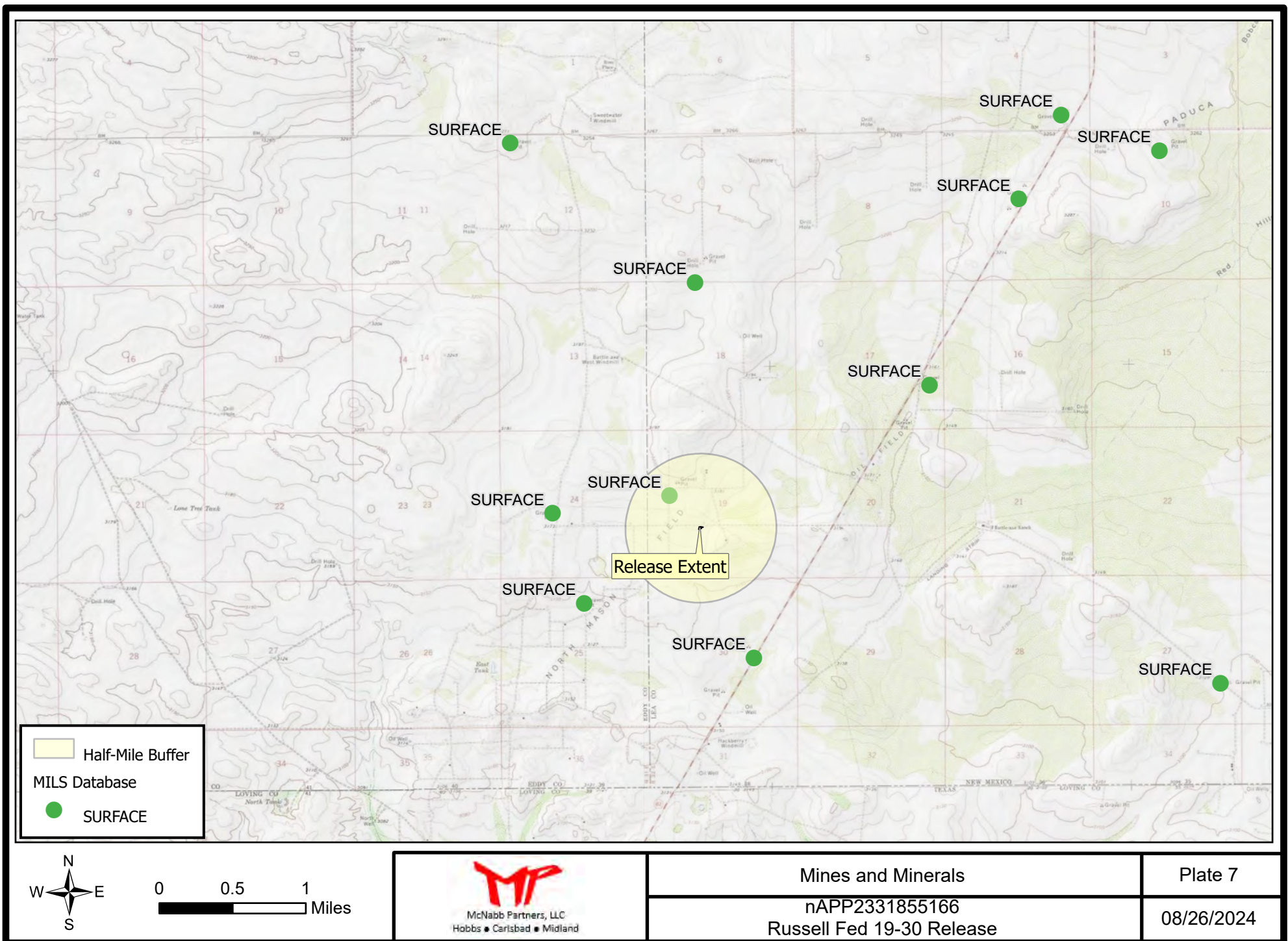


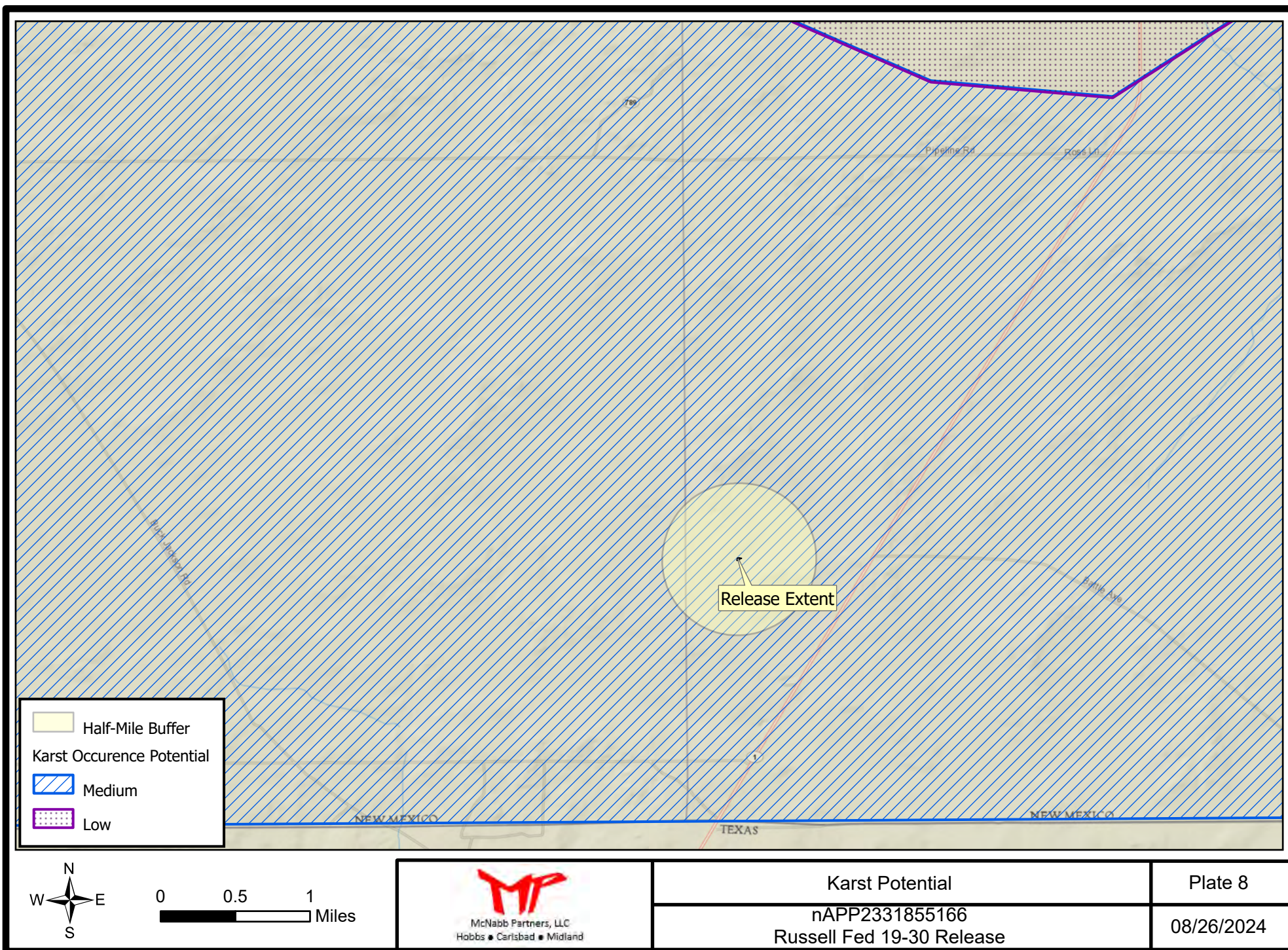


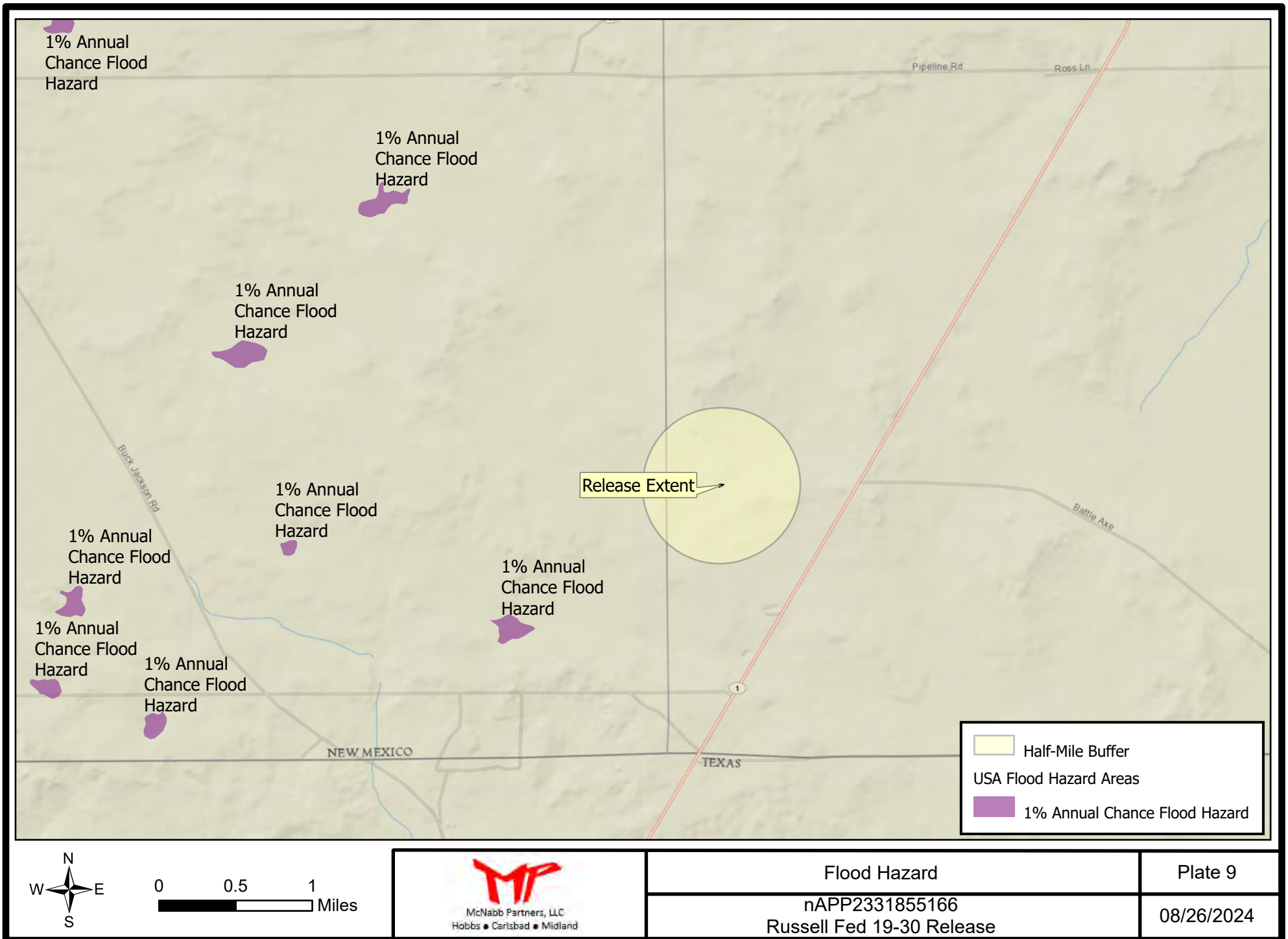












Appendix A

R.T. Hicks July 2024 Relevant Portions



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July 2024

Characterization Report & Remediation Plan RUSSELL FED 19-30 RELEASE

Incident #nAPP2331855166

Sec 19, T26S, R32E Unit Letter K

Transmittal Letter

Executive Summary

Characterization Report & Remediation Plan

Figure, Table, Plates

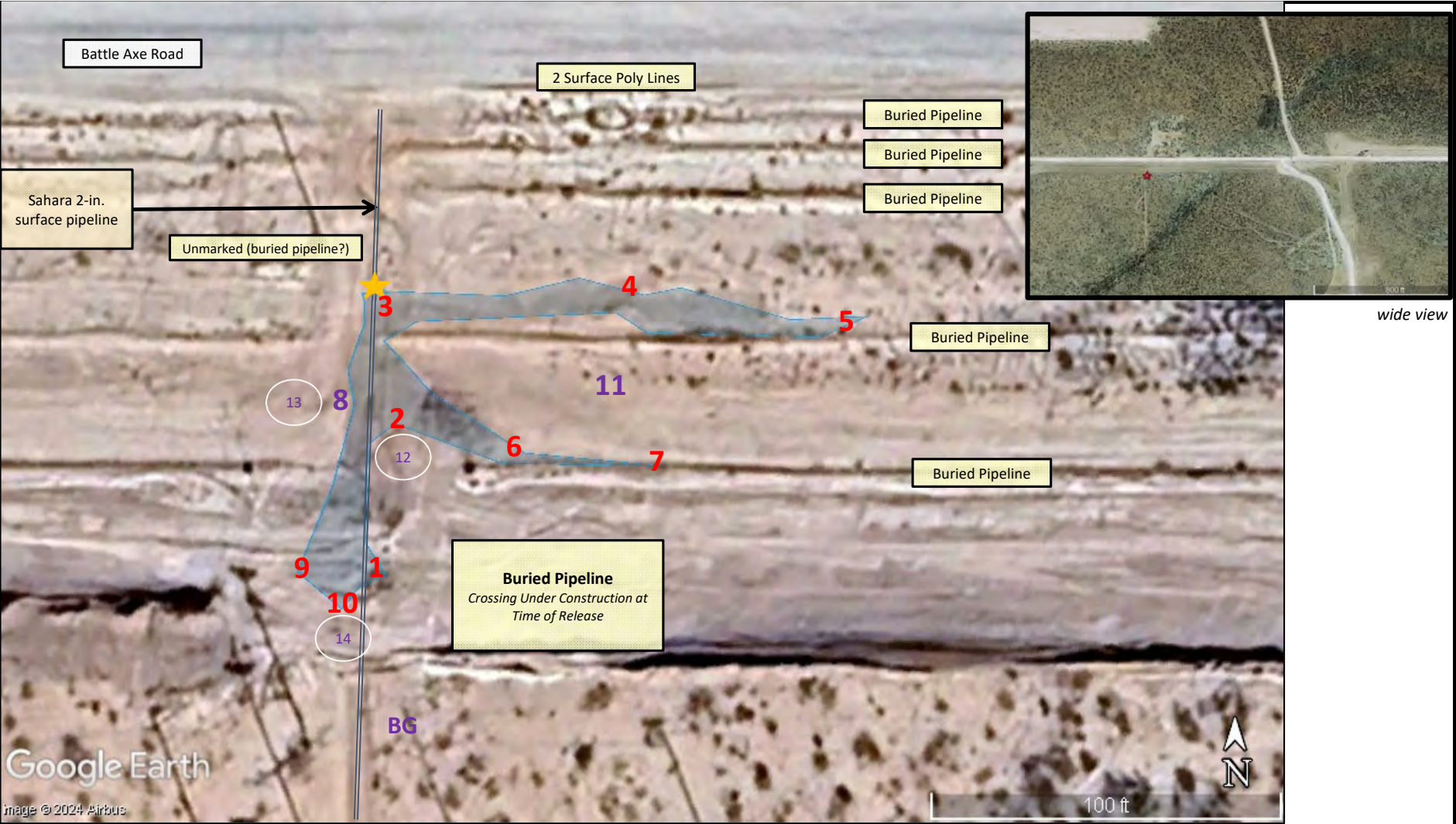
Appendices: Photographic Summary, Well logs/USGS Data,
Laboratory Reports



*Location of Russell Federal 19-30 release, which is $\frac{3}{4}$ mile due north of
RF-454 Zia Hills Superman RF & Containments*

Prepared for:
Sahara Operating Company
Midland, Texas

Prepared by:
R.T. Hicks Consultants, Ltd.
901 Rio Grande NW F-142
Albuquerque, New Mexico



KEY	<div># Sample location within affected surface</div> <div># Sample location outside affected surface</div> <div># Approximate area of proposed additional samples</div>		
	<div>★ Release origin from 2-in. surface poly pipeline</div>		
R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW, Suite F-142 Albuquerque, NM 87104 505-266-5004		11/7/2023 Sample Locations (12/20/2023 Google Earth satellite image)	Figure 1
Sahara Operating Company		Russell Federal 19-30 Release (10/31/2023)	June 2024

Sample ID	Sample Date	Discrete Depth (ft)	Top Depth (ft)	Bottom Depth (ft)	In Use (Yes/No)	Chloride (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	extDRO (MRO) (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Comments
Part 29-Table 1 Closure Criteria														
0-4 ft & NOT "in-use"						600				--	2,500	10	50	
> 4 ft or "in-use"						20,000				1,000	2,500	10	50	
BG @ 0-2 ft	11/7/2023		0.0	2.0	n/a	16	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	Good veg.; SE of pipeline crossing
BG @ 2-4 ft	11/7/2023		2.0	4.0	n/a	32	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
BG @ 4.3 ft	11/7/2023	4.3			n/a	64	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
SSA-1	11/7/2023		0.0	2.0	yes	144	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	E side of Sahara line
	11/7/2023		2.0	4.0	yes	80	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
	11/7/2023	4.3			yes	144	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
SSA-2	11/7/2023		0.0	2.0	yes	12,200	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	E side of Sahara line
	11/7/2023		2.0	4.0	yes	11,400	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
	11/7/2023	4.3			yes	10,000	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
SSA-3	11/7/2023		0.0	2.0	yes	640	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	Nearest the source on the E side of Sahara line
	11/7/2023		2.0	4.0	yes	592	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
	11/7/2023	4.3			yes	704	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
SSA-4	11/7/2023		0.0	2.0	yes	112	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	N edge of surface stain; on N edge of ROW
	11/7/2023		2.0	4.0	yes	176	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
	11/7/2023	4.3			yes	80	<10.0	19.6	<10.0	<29.6	<39.6	<0.050	<0.300	
SSA-5	11/7/2023		0.0	2.0	yes	176	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	E terminus of release; 2-3' wide stain
	11/7/2023		2.0	4.0	yes	448	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
	11/7/2023	4.3			yes	464	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
HA-6	11/7/2023		0.0	2.0	yes	112	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	on ROW
HA-7	11/7/2023		0.0	2.0	yes	256	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	on ROW
SSA-8	11/7/2023		0.0	2.0	yes	8,660	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	between 2 ROWs; outside of surface stain
	11/7/2023		2.0	4.0	yes	9,200	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
	11/7/2023	4.3			yes	10,900	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
SSA-9	11/7/2023		0.0	2.0	yes	80	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	on proposed ROW
	11/7/2023		2.0	4.0	yes	80	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
	11/7/2023	4.3			yes	112	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
SSA-10	11/7/2023		0.0	2.0	yes	3,840	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	S terminus; at Sahara pipeline crossing proposed ROW
	11/7/2023		2.0	4.0	yes	2,120	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
	11/7/2023	4.3			yes	5,120	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
SSA-11	11/7/2023		0.0	2.0	yes	80	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	between 2 ROWs; outside of surface stain
	11/7/2023		2.0	4.0	yes	32	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	
	11/7/2023	4.3			yes	48	<10.0	<10.0	<10.0	<20.0	<30.0	<0.050	<0.300	

SSA = Skid-steer auger HA = Hand auger

R.T. Hicks Consultants, Ltd. 901 Rio Grande Blvd NW, Suite F-142 Albuquerque, NM 87104 (505) 266-5004	Sample and Analyses Summary		Table 1
	Sahara Operating Company	Russell Federal 19-30 Release (10/31/2023)	June-24

PHOTOGRAPHIC SUMMARY

SAHARA – RUSSELL FED 19-30 RELEASE



View west taken on day of discovery (10/31/2023) from location just north of pipeline crossing (left) and approximately 40 ft south of break in Sahara's 2-inch poly line (center). Future sample location 1 will be in the approximate area shown.

Same mesquite root is shown in 11/2/2023 photo below.



11/2/2023 site visit: view west from future sample point 1; ROW construction shown on left side; vehicle crossing is just outside of view on left.

Netting surrounding hole (right) is where a hydrovac was used during construction of new pipeline *before* the 10/31/2023 release

32.02572,
-103.71704

PHOTOGRAPHIC SUMMARY

SAHARA – RUSSELL FED 19-30 RELEASE

11/2/2023

View north positioned
immediately south of
ROW under
construction; arrow
showing southern
terminus of release



11/2/2023

View south
positioned between
Battle Axe Rd and
release source (clamp
shown with arrow)

PHOTOGRAPHIC SUMMARY

SAHARA – RUSSELL FED 19-30 RELEASE



11/7/2023

HA-7 shown in foreground in orange paint at terminus of smaller lobe, facing east along produced water ROW

32.025782, -103.716766

11/7/2023

Sampling at SSA-4 positioned between two pipeline ROWs; view east-southeast

32.02593, -103.71681



PHOTOGRAPHIC SUMMARY

SAHARA – RUSSELL FED 19-30 RELEASE



11/7/2023
Sample point SSA-10
shown in orange paint
in foreground, facing
south to vehicle
crossing for new
pipeline installation.

32.025679,
-103.717067

11/7/2023
Background sample
point in pasture area
with typical
vegetation, south of
new ROW
construction and east
of Sahara pipeline.
Facing NNW

32.025552,
-103.716999



Appendix

Certificates of Analyses

R.T. Hicks Consultants, Ltd.

901 Rio Grande Blvd. NW, Suite F-142
Albuquerque, NM 87104



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

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received: 11/09/2023
 Reported: 11/14/2023
 Project Name: RUSSELL FED 19-30 RELEASE
 Project Number: NONE GIVEN
 Project Location: LEA CO.

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: BG @ 0-2 FT (H236157-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.07	103	2.00	2.37	
Toluene*	<0.050	0.050	11/10/2023	ND	2.15	108	2.00	1.47	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.52	109	6.00	1.37	
Total BTEX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/10/2023	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	11/10/2023	ND	188	93.9	200	1.18	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	173	86.5	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30 RELEASE
Project Number: NONE GIVEN
Project Location: LEA CO.

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BG @ 2-4 FT (H236157-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.07	103	2.00	2.37	
Toluene*	<0.050	0.050	11/10/2023	ND	2.15	108	2.00	1.47	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.52	109	6.00	1.37	
Total BTX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/10/2023	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	11/10/2023	ND	188	93.9	200	1.18	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	173	86.5	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30 RELEASE
Project Number: NONE GIVEN
Project Location: LEA CO.

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BG @ 4.3 FT (H236157-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.07	103	2.00	2.37	
Toluene*	<0.050	0.050	11/10/2023	ND	2.15	108	2.00	1.47	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.52	109	6.00	1.37	
Total BTEX	<0.300	0.300	11/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/10/2023	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	11/10/2023	ND	188	93.9	200	1.18	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	173	86.5	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



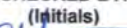


101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By:		Date:	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time:		All Results are emailed. Please provide Email address:	
		Date:			
Relinquished By:		Date:	Received By:	REMARKS:	
		Time:			
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY:	Turnaround Time:	Bacteria (only)
UPS <input checked="" type="checkbox"/> Bus <input type="checkbox"/> Other: <input type="checkbox"/>	Corrected Temp. °C	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	(Initials) 	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No
				Thermometer ID #113 Correction Factor -0.6°C	Observed Temp. °C Corrected Temp. °C

~~FORM-006 R 3.3 07/16/22~~

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



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

November 14, 2023

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: RUSSELL FED 19-30

Enclosed are the results of analyses for samples received by the laboratory on 11/09/23 13:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 1 @ 0-2 FT (H236155-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 1 @ 2-4 FT (H236155-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	1.93		
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40		
Total BTEX	<0.300	0.300	11/10/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 1 @ 4.3 FT (H236155-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	1.93	
Toluene*	<0.050	0.050	11/10/2023	ND	2.18	109	2.00	1.53	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	1.34	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.74	112	6.00	1.40	
Total BTEX	<0.300	0.300	11/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received: 11/09/2023
 Reported: 11/14/2023
 Project Name: RUSSELL FED 19-30
 Project Number: NONE GIVEN
 Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SSA - 2 @ 0-2 FT (H236155-04)

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	11/10/2023	ND	1.78	89.1	2.00	19.1	
Toluene*	<0.050	0.050	11/10/2023	ND	1.76	87.9	2.00	14.9	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	1.90	95.0	2.00	11.8	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	5.70	95.1	6.00	9.47	
Total BTEX	<0.300	0.300	11/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 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:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 2 @ 2-4 FT (H236155-05)

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	11/10/2023	ND	1.78	89.1	2.00	19.1	
Toluene*	<0.050	0.050	11/10/2023	ND	1.76	87.9	2.00	14.9	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	1.90	95.0	2.00	11.8	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	5.70	95.1	6.00	9.47	
Total BTEX	<0.300	0.300	11/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11400	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 2 @ 4.3 FT (H236155-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	1.78	89.1	2.00	19.1	
Toluene*	<0.050	0.050	11/10/2023	ND	1.76	87.9	2.00	14.9	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	1.90	95.0	2.00	11.8	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	5.70	95.1	6.00	9.47	
Total BTEX	<0.300	0.300	11/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 3 @ 0-2 FT (H236155-07)

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	11/10/2023	ND	1.78	89.1	2.00	19.1	
Toluene*	<0.050	0.050	11/10/2023	ND	1.76	87.9	2.00	14.9	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	1.90	95.0	2.00	11.8	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	5.70	95.1	6.00	9.47	
Total BTEX	<0.300	0.300	11/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 3 @ 2-4 FT (H236155-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	1.78	89.1	2.00	19.1	
Toluene*	<0.050	0.050	11/10/2023	ND	1.76	87.9	2.00	14.9	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	1.90	95.0	2.00	11.8	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	5.70	95.1	6.00	9.47	
Total BTEX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 3 @ 4.3 FT (H236155-09)

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	1.78	89.1	2.00	19.1	
Toluene*	<0.050	0.050	11/10/2023	ND	1.76	87.9	2.00	14.9	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	1.90	95.0	2.00	11.8	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	5.70	95.1	6.00	9.47	
Total BTEX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 4 @ 0-2 FT (H236155-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	1.78	89.1	2.00	19.1	
Toluene*	<0.050	0.050	11/10/2023	ND	1.76	87.9	2.00	14.9	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	1.90	95.0	2.00	11.8	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	5.70	95.1	6.00	9.47	
Total BTEX	<0.300	0.300	11/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 4 @ 2-4 FT (H236155-11)

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	1.78	89.1	2.00	19.1	
Toluene*	<0.050	0.050	11/10/2023	ND	1.76	87.9	2.00	14.9	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	1.90	95.0	2.00	11.8	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	5.70	95.1	6.00	9.47	
Total BTEX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 4 @ 4.3 FT (H236155-12)

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	11/10/2023	ND	1.78	89.1	2.00	19.1	
Toluene*	<0.050	0.050	11/10/2023	ND	1.76	87.9	2.00	14.9	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	1.90	95.0	2.00	11.8	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	5.70	95.1	6.00	9.47	
Total BTX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	19.6	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 5 @ 0-2 FT (H236155-13)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	1.78	89.1	2.00	19.1	
Toluene*	<0.050	0.050	11/10/2023	ND	1.76	87.9	2.00	14.9	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	1.90	95.0	2.00	11.8	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	5.70	95.1	6.00	9.47	
Total BTEX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 74.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 5 @ 2-4 FT (H236155-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2023	ND	1.78	89.1	2.00	19.1		
Toluene*	<0.050	0.050	11/10/2023	ND	1.76	87.9	2.00	14.9		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	1.90	95.0	2.00	11.8		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	5.70	95.1	6.00	9.47		
Total BTEX	<0.300	0.300	11/10/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	11/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 5 @ 4.3 FT (H236155-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	1.78	89.1	2.00	19.1	
Toluene*	<0.050	0.050	11/10/2023	ND	1.76	87.9	2.00	14.9	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	1.90	95.0	2.00	11.8	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	5.70	95.1	6.00	9.47	
Total BTEX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: HA - 6 @ 0-2 FT (H236155-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	1.78	89.1	2.00	19.1	
Toluene*	<0.050	0.050	11/10/2023	ND	1.76	87.9	2.00	14.9	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	1.90	95.0	2.00	11.8	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	5.70	95.1	6.00	9.47	
Total BTEX	<0.300	0.300	11/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: HA - 7 @ 0-2 FT (H236155-17)

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	11/10/2023	ND	2.07	103	2.00	2.37	
Toluene*	<0.050	0.050	11/10/2023	ND	2.15	108	2.00	1.47	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.52	109	6.00	1.37	
Total BTX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 8 @ 0-2 FT (H236155-18)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2023	ND	2.07	103	2.00	2.37		
Toluene*	<0.050	0.050	11/10/2023	ND	2.15	108	2.00	1.47		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	2.11		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.52	109	6.00	1.37		
Total BTEX	<0.300	0.300	11/10/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8660	16.0	11/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 8 @ 2-4 FT (H236155-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.07	103	2.00	2.37	
Toluene*	<0.050	0.050	11/10/2023	ND	2.15	108	2.00	1.47	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.52	109	6.00	1.37	
Total BTEX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	11/10/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 8 @ 4.3 FT (H236155-20)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.07	103	2.00	2.37	
Toluene*	<0.050	0.050	11/10/2023	ND	2.15	108	2.00	1.47	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.52	109	6.00	1.37	
Total BTEX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10900	16.0	11/10/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/10/2023	ND	185	92.4	200	0.254	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	168	84.2	200	0.863	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 9 @ 0-2 FT (H236155-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.07	103	2.00	2.37	
Toluene*	<0.050	0.050	11/10/2023	ND	2.15	108	2.00	1.47	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.52	109	6.00	1.37	
Total BTEX	<0.300	0.300	11/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/10/2023	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	11/10/2023	ND	188	93.9	200	1.18	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	173	86.5	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 9 @ 2-4 FT (H236155-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2023	ND	2.07	103	2.00	2.37		
Toluene*	<0.050	0.050	11/10/2023	ND	2.15	108	2.00	1.47		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	2.11		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.52	109	6.00	1.37		
Total BTEX	<0.300	0.300	11/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/10/2023	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	11/10/2023	ND	188	93.9	200	1.18	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	173	86.5	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received: 11/09/2023
 Reported: 11/14/2023
 Project Name: RUSSELL FED 19-30
 Project Number: NONE GIVEN
 Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SSA - 9 @ 4.3 FT (H236155-23)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.07	103	2.00	2.37	
Toluene*	<0.050	0.050	11/10/2023	ND	2.15	108	2.00	1.47	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.52	109	6.00	1.37	
Total BTEX	<0.300	0.300	11/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/10/2023	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	11/10/2023	ND	188	93.9	200	1.18	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	173	86.5	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received: 11/09/2023
 Reported: 11/14/2023
 Project Name: RUSSELL FED 19-30
 Project Number: NONE GIVEN
 Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SSA - 10 @ 0-2 FT (H236155-24)

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.07	103	2.00	2.37	
Toluene*	<0.050	0.050	11/10/2023	ND	2.15	108	2.00	1.47	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.52	109	6.00	1.37	
Total BTEX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	11/10/2023	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	11/10/2023	ND	188	93.9	200	1.18	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	173	86.5	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received: 11/09/2023
 Reported: 11/14/2023
 Project Name: RUSSELL FED 19-30
 Project Number: NONE GIVEN
 Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SSA - 10 @ 2-4 FT (H236155-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/10/2023	ND	2.07	103	2.00	2.37		
Toluene*	<0.050	0.050	11/10/2023	ND	2.15	108	2.00	1.47		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	2.11		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.52	109	6.00	1.37		
Total BTEx	<0.300	0.300	11/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	11/10/2023	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	11/10/2023	ND	188	93.9	200	1.18	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	173	86.5	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 10 @ 4.3 FT (H236155-26)

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.07	103	2.00	2.37	
Toluene*	<0.050	0.050	11/10/2023	ND	2.15	108	2.00	1.47	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.52	109	6.00	1.37	
Total BTEX	<0.300	0.300	11/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	11/10/2023	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	11/10/2023	ND	188	93.9	200	1.18	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	173	86.5	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 11 @ 0-2 FT (H236155-27)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.07	103	2.00	2.37	
Toluene*	<0.050	0.050	11/10/2023	ND	2.15	108	2.00	1.47	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.52	109	6.00	1.37	
Total BTEX	<0.300	0.300	11/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/10/2023	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	11/10/2023	ND	188	93.9	200	1.18	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	173	86.5	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 11/09/2023
Reported: 11/14/2023
Project Name: RUSSELL FED 19-30
Project Number: NONE GIVEN
Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SSA - 11 @ 2-4 FT (H236155-28)

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.07	103	2.00	2.37	
Toluene*	<0.050	0.050	11/10/2023	ND	2.15	108	2.00	1.47	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.52	109	6.00	1.37	
Total BTEX	<0.300	0.300	11/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/10/2023	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	11/10/2023	ND	188	93.9	200	1.18	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	173	86.5	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received: 11/09/2023
 Reported: 11/14/2023
 Project Name: RUSSELL FED 19-30
 Project Number: NONE GIVEN
 Project Location: SAHARA - BATTLE AXE RD

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SSA - 11 @ 4.3 FT (H236155-29)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2023	ND	2.07	103	2.00	2.37	
Toluene*	<0.050	0.050	11/10/2023	ND	2.15	108	2.00	1.47	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.16	108	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.52	109	6.00	1.37	
Total BTEX	<0.300	0.300	11/10/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/10/2023	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	11/10/2023	ND	188	93.9	200	1.18	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	173	86.5	200	1.19	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: R.T. Hicks Consultants Project Manager: Kristin Pope Address: 901 Rio Grande Blvd NW, Suite F-142 City: Albuquerque State: NM Zip: 87104 Phone #: 505-266-5004 Fax #: Project #: Project Owner: Sahara Project Name: Russell Fed 19-30 Project Location: Battle Axe Rd Sampler Name: Kristin Pope				BILL TO P.O. #: Company: R.T. Hicks Attn: Randy Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST																			
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	BTEX	TPH										
H236155																											
1	SSA-1 @ 0-2 ft	G	1										11-7-2023	0957	✓	✓	✓										
2	SSA-1 @ 2-4 ft	G	1											0959	✓	✓	✓										
3	SSA-1 @ 4.3 ft	G	1											1000	✓	✓	✓										
4	SSA-2 @ 0-2 ft	G	1											1056	✓	✓	✓										
5	SSA-2 @ 2-4 ft	G	1											1059	✓	✓	✓										
6	SSA-2 @ 4.3 ft	G	1											1106	✓	✓	✓										
7	SSA-3 @ 0-2 ft	G	1											1111	✓	✓	✓										
8	SSA-3 @ 2-4 ft	G	1											1118	✓	✓	✓										
9	SSA-3 @ 4.3 ft	G	1											1126	✓	✓	✓										
10	SSA-4 @ 0-2 ft	G	1											1149	✓	✓	✓										

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Relinquished By: Relinquished By:	Date: 11-9-23 Time: 13:05 Date: Time:	Received By: Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No (Add'l Phone #: All Results are emailed. Please provide Email address: kristin@rthicksconsult.com, R@rthicksconsult.com REMARKS:
--	--	--	--

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 2.94 Corrected Temp. °C 11.40	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) 	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush Thermometer ID #113 Correction Factor -0.5°C	Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C
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FORM-006 R 3.2 10/07/21

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CARDINAL
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: R.T. Hicks Consultants Project Manager: Kristin Pope Address: 901 Rio Grande Blvd NW, Suite F-142 City: Albuquerque State: NM Zip: 87104 Phone #: 505-266-5004 Fax #: Project #: Project Owner: Sahara Project Name: Russell Fed 19-30 Project Location: Battle Axe Rd Sampler Name: Kristin Pope				BILL TO P.O. #: Company: R.T. Hicks Attn: Randy Address: City: State: Zip: Phone #: Fax #: ANALYSIS REQUEST			
FOR LAB USE ONLY Lab I.D. Sample I.D.				MATRIX PRESERV. SAMPLING GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME			
11 SSA-4 @ 2-4 ft G 1 11-7-2023 11:55				Chloride BTEX TPH 8015M			
12 SSA-4 @ 4.3 ft G 1 1200							
13 SSA-5 @ 0-2 ft G 1 1215							
14 SSA-5 @ 2-4 ft G 1 1220							
15 SSA-5 @ 4.3 ft G 1 1227							
16 HA-6 @ 0-2 ft G 1 1245							
17 HA-7 @ 0-2 ft G 1 1339							
18 SSA-8 @ 0-2 ft G 1 1345							
19 SSA-8 @ 2-4 ft G 1 1404							
20 SSA-8 @ 4.3 ft G 1 1410							
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Relinquished By: Kristin Pope Date: 11-9-23 Time: 1305				Received By: [Signature] Date: [Blank] Time: [Blank]			
Relinquished By: [Blank] Date: [Blank] Time: [Blank]				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: [Blank] All Results are emailed. Please provide Email address: kristin@rthicksconsult.com, R@rthicksconsult.com REMARKS: [Blank]			
Delivered By: (Circle One) Sampler - UPS - Bus - Other: [Blank]				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C			
Observed Temp. °C 9.9C Corrected Temp. °C #140				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: (Initials) [Signature]			
FORM-006 R 3.2 10/07/21				Thermometer ID #413 Correction Factor -0.5°C			



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FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	BTEX	TPH				
H236155	21 SSA-9 @ 0-2 ft	G 1										11-7-2023	1415	✓	✓	✓				
	22 SSA-9 @ 2-4 ft	G 1											1418	✓	✓	✓				
	23 SSA-9 @ 4.3 ft	G 1											1430	✓	✓	✓				
	24 SSA-10 @ 0-2 ft	G 1											1432	✓	✓	✓				
	25 SSA-10 @ 2-4 ft	G 1											1440	✓	✓	✓				
	26 SSA-10 @ 4.3 ft	G 1											1441	✓	✓	✓				
	27 SSA-11 @ 0-2 ft	G 1											1445	✓	✓	✓				
	28 SSA-11 @ 2-4 ft	G 1											1458	✓	✓	✓				
	29 SSA-11 @ 4.3 ft	G 1											1504	✓	✓	✓				
KP																				

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Relinquished By:	Date:	Received By:	Verbal Result:
Kristin Pope	11-9-23	[Signature]	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No [Add'l Phone #:
Relinquished By:	Time:		All Results are emailed. Please provide Email address:
	13:00		kristin@rthicksconsult.com, R@rthicksconsult.com
Date:	Received By:	REMARKS:	
Time:			

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY:	Turnaround Time:	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	9.90C	Cool Intact	(Initials)	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Cool Intact
	Corrected Temp. °C	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Thermometer ID #143	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Observed Temp. °C
				Correction Factor -0.5°C	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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QUESTIONS

Action 380070

QUESTIONS

Operator: SAHARA OPERATING CO P.O. Box 4130 Midland, TX 79704	OGRID: 20077 Action Number: 380070 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
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QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2331855166
Incident Name	NAPP2331855166 RUSSELL FED 19-30 RELEASE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	RUSSELL FED 19-30 RELEASE
Date Release Discovered	10/31/2023
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

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

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Other Coupling Produced Water Released: 0 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 0 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)	At approximately 11:00 a.m., a representative of Applied Construction notified Sahara Operating, Inc that during the R-O-W preparation for the installation of a buried pipeline for MPLX that will cross Sahara's surface produced water transfer line, Applied Construction discovered a release from Sahara's poly line. The release occurred at a coupling in the line which, during repair, appeared to have been split due to stress from the construction of a cross-over or being ran over by vehicles. Sahara was not notified of this pipeline crossing. We will be evaluating exactly how this release occurred and may update OCD regarding the cause. *Initial estimation at the time of release is approximately 20 bbls. An estimate may be determined after characterization using chloride mass and/or soil saturation and and will be included in subsequent submissions. All samples were dry during characterization to 4.3 ft BGS on 11/7/2023. Notice was given to Mr. Mike Bratcher via email on 11/01/2023 @ 11:58 am MST by Kristen Pope

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QUESTIONS, Page 2

Action 380070

QUESTIONS (continued)

Operator: SAHARA OPERATING CO P.O. Box 4130 Midland, TX 79704	OGRID:	20077
	Action Number:	380070
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	False
All free liquids and recoverable materials have been removed and managed appropriately	False
If all the actions described above have not been undertaken, explain why	Volume of free liquids at the surface was insufficient for recovery and quickly drained to subsoil.
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: George Mcalpine Title: Production Manager Email: shannon@saharaoper.com Date: 06/07/2024

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QUESTIONS, Page 3

Action 380070

QUESTIONS (continued)

Operator: SAHARA OPERATING CO P.O. Box 4130 Midland, TX 79704	OGRID:
	20077
	Action Number:
	380070
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (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 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (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	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	12200
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	39.6
GRO+DRO	(EPA SW-846 Method 8015M)	29.6
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.3
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	10/07/2024
On what date will (or did) the final sampling or liner inspection occur	10/23/2024
On what date will (or was) the remediation complete(d)	10/23/2024
What is the estimated surface area (in square feet) that will be reclaimed	2510
What is the estimated volume (in cubic yards) that will be reclaimed	558
What is the estimated surface area (in square feet) that will be remediated	2510
What is the estimated volume (in cubic yards) that will be remediated	558

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.

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QUESTIONS, Page 4

Action 380070

QUESTIONS (continued)

Operator: SAHARA OPERATING CO P.O. Box 4130 Midland, TX 79704	OGRID:	20077
	Action Number:	380070
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	OWL LANDFILL JAL [fJEG1635837366]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Andrew Parker Title: Consultant Email: andrew@mcnabbpartners.com Date: 09/03/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 380070

QUESTIONS (continued)

Operator: SAHARA OPERATING CO P.O. Box 4130 Midland, TX 79704	OGRID:
	20077
	Action Number:
	380070
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

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

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QUESTIONS, Page 6

Action 380070

QUESTIONS (continued)

Operator: SAHARA OPERATING CO P.O. Box 4130 Midland, TX 79704	OGRID:	20077
	Action Number:	380070
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

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

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

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

CONDITIONS

Action 380070

CONDITIONS

Operator: SAHARA OPERATING CO P.O. Box 4130 Midland, TX 79704	OGRID: 20077
	Action Number: 380070
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvez	The remediation plan is approved. Sahara Operating Co. has 90-days (December 9, 2024) to submit to OCD its appropriate or final remediation closure report.	9/10/2024