

Not able to determine volume of oil in stained caliche.



McNabb Partners, LLC  
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October 3, 2024

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

RE: Site Characterization and Remediation Work Plan Proposal  
Incident ID: nAPP2415825281  
Mineral Lease ID: L0-0896-0002  
Ogden State #005A  
Unit/Township/Range/Section: UL O, Sec. 2, T25S, R26E  
Lat/Long: 32.1539841, -104.2605743  
Project ID: 20160312-murchison-ogdenState5A

NMOCD:

McNabb Partners LLC (McNabb) submits this Site Characterization and Remediation Work Plan on behalf of Murchison Oil and Gas, LLC (Murchison). This document describes site characterization, initial assessment and planned remedial activities on the Ogden State #005A well pad.

## **1 Site Characterization**

The following sections address items as described in 19.15.29.11.A, paragraphs 1- 4. Please refer to the table and text below for additional setback criteria and verification (Plates 1-9).

### **1.1 Site Map**

Plate 1 is a site map showing overview of the well pad, the supposed source of the release and the lined containment that was inspected.

### **1.2 Depth to Ground Water**

According to USGS and NM OSE data bases, there are no known wells within a 1/2-mile radius of the Site. On 8/23/2023, a sampling bore hole SB-1 was installed approximately 900 feet west of the area of concern. A bore hole was drilled down to 106 feet below ground surface (ft bgs) with no groundwater encountered at any point.

The boring is identified on Plate 2, The boring log is located in Appendix B.

### **1.3 Wellhead Protection Area**

Plate 3 shows that the area of concern is:



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- Not within incorporated municipal boundaries or within a defined municipal fresh water well field.
- Not within ½-mile of any 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 well or spring.

## 1.4 Distance to Nearest Significant Water Course

Plate 4 shows that the area of concern is:

- Within ½-mile of an intermittent stream (riverine).
- 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).

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Site Characterization	
What is the shallowest depth to groundwater (ft bgs) <b>Plate 2</b>	>106 ft bgs
What measure was used to determine this?	Borehole
Did this release impact ground or surface water?	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
• A continuously flowing watercourse or any other significant watercourse. <b>Plate 4</b>	1,600 ft N – intermittent stream
• Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark). <b>Plate 4</b>	7,000 ft NW
• An occupied permanent residence, school, hospital, institution or church. <b>Plate 5</b>	>1 mi
• A spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes. <b>Plate 3</b>	>1 mi
• Any other fresh water well or spring. <b>Plate 3</b>	>1 mi
• Incorporated municipal boundaries or a defined municipal fresh water well field. <b>Plate 3</b>	>1 mi
• A wetland. <b>Plate 6</b>	7,000 ft NW
• A subsurface mine. <b>Plate 7</b>	>5 mi
• A (non-karst) unstable area.	>5 mi
• Categorize the risk of this well/site being in a karst geology. <b>Plate 8</b>	High Karst
• A 100-year floodplain. <b>Plate 9</b>	6,600 ft NW

## 1.5 Soil/Waste Characteristics

The USDA Natural Resources Conservation Service (NRCS) soil survey<sup>1</sup> describes near surface lithology as

The entire production site and lease access road consist of Reeves-Gypsum land complex.

- Reeves-Gypsum land complex, (100% of area)
  - Slope: 0 to 3 percent
  - Typical profile
    - ✓ H1 - 0 to 8 inches: *loam*
    - ✓ H2 - 8 to 32 inches: *clay loam*

<sup>1</sup> <https://websoilurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>





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✓ H3 - 32 to 60 inches: *gypsiferous material*

Closure Criteria as listed in Table 1 of 19.15.29 NMAC, where Karst potential is high is defined as:

- Chloride – 600 mg/kg
- TPH – 100 mg/kg
- BTEX – 50 mg/kg
- Benzene – 10 mg/kg

An initial sampling event to assess the Area of Interest at Ogden State #004 and Ogden State #005A was conducted by Hungry Horse on 06/25/2024. McNabb Partners conducted another sampling event on 08/14/2024 in conjunction with area of concern at Ogden State #004 well pad (addressed under Incident ID: nAPP2424335058). Samples collected at the Ogden State 4 site are excluded from the Table A and their locations are shown in Plate 11 for the NMOCD reference. All samples collected were analyzed by a certified laboratory for TPH, chloride and BTEX concentrations.

Analytical data shows that multiple soil samples (SP 1 - SURF (H243836-01), SP 2 - SURF (H243836-02), SP 3 - SURF (H243836-03), CS-01 (0.5') (H244986-16), CS-02 (0.5') (H244986-19), CS-03 (0.5') (H244986-22), H-2 (0.5') (H244989-04), H-3 (0.5') (H244989-07), H-4 (0.5') (H244989-10)) exhibit elevated chloride and/or TPH concentrations at depths ranging from ground surface to 0.5 ft bgs. Sample point H-1 exhibits elevated chloride concentrations at depths from 0.5 to 4 ft bgs (Sample IDs: H-1 (0.5') (H244989-01), H-1 (2') (H244989-02), H-1 (4') (H244989-03)).

After conducting liner inspection on July 9, 2024, several holes were identified in the lined tank battery containment. On August 23, 2024, McNabb Partners have collected 6 characterization samples (i.e., CS-01 through CS-06) from each hole in the liner. The liner around the hole were cut into 5 ft by 5 ft squares and discrete samples were collected due to visual impacts on the surface. Terminal depth samples from every hole were collected with a geotechnical hand auger until the hard tool refusal. Sample points CS-01 through CS-04 were fully delineated (refer to Sample IDs: CS-01 (1') (H245183-02), CS-01 (1.5') (H245183-03), CS-02 (0.5') (H245183-04), CS-02 (2') (H245183-05), CS-03 (0.5') (H245183-06), CS-03 (1') (H245183-07), CS-03 (1.5') (H245183-08), CS-04 (0.5') (H245183-09), CS-04 (1') (H245183-10)) to constituent concentrations below Table I, 19.15.29.12 NMAC. As result of the tool refusal and inability to access these samples points with geotechnical drilling rig due to the multiple pipelines, sample points CS-05 and CS-06 (represented by sample IDs: CS-05 (0.5') (H245183-11), CS-05 (2') (H245183-12), CS-06 (0.5') (H245183-13), CS-06 (1') (H245183-14)) cannot be fully delineated at the time of liner inspection. Prior to the closure/deferral report submission to NMOCD, the delineation for sample points CS-05 and CS-06 will be completed along with the excavation activities. Impacted areas CS-05 and CS-06 under the liner will be accessed horizontally with geotechnical hand auger extended up to 16 ft from the eastern and western side walls of the excavation at the depth of 2 ft bgs or below if necessary.



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On September 19, 2024, McNabb Partners returned to the site to complete delineation of the impacted surfaces around the lined containment. Several sample points (i.e., H-1.1, H-2.1, H-2.2, H-5 through H-6) were installed at depths ranging from 0.5 to 4 ft bgs next to sample points with elevated chloride concentrations (i.e., H-1 through H-4). Sample point H-1 was further characterized at depths from 6 to 10 ft bgs.

Sample points H-1.1, H-2.2 and H-5 through H-8 (represented by sample IDs: H-1.1 (0.5') (H245735-09), H-1.1 (2') (H245735-10), H-1.1 (4') (H245735-11), H-2.2 (0.5') (H245735-06), H-2.2 (2') (H245735-07), H-2.2 (4') (H245735-08), H-5 (0.5') (H245735-12), H-5 (2') (H245735-13), H-5 (4') (H245735-14), H-6 (0.5') (H245735-15), H-6 (2') (H245735-16), H-6 (4') (H245735-17), H-7 (0.5') (H245735-18), H-7 (2') (H245735-19), H-7 (4') (H245735-20), H-8 (0.5') (H245735-21), H-8 (2') (H245735-22), H-8 (4') (H245735-23)) meet NMOCD Closure Criteria from Table I at all depths from 0.5 to 4 ft bgs. Elevated chloride and/or TPH concentrations were present in sample point H-2.1 (Sample ID: H-2.1 (0.5') (H245735-04) at depth of 0.5 ft bgs and H-1 at depths of 6 and 10 ft bgs (Sample IDs: H-1 (6') (H245735-01) & H-1 (10') (H245735-03)).

- Plate 10 shows the location of characterization/delineation sample points and proposed excavation depths for the release remediation.
- Plate 11 shows the location of excluded sample points at Ogden State 4 Well Pad.
- Table A shows a summary of analytical, listed by their corresponding Sample IDs.
- Sampling notifications are included in Appendix A.
- Certificates of analysis are located in Appendix C.



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## 2 Remediation Workplan

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> )?	Yes
Was this release entirely contained within a lined containment area?	No
Soil Contamination Sampling (Highest observable value for each in mg/kg)	
• Chloride	16,000
• TPH (DRO+GRO+MRO)	2,142.6
• GRO+DRO	1,746.6
• BTEX	1.55
• Benzene	0.05
On what estimated date will the remediation commence	10/26/2024
On what date will (or did) the final sampling or liner inspection occur	11/26/2024
On what date will (or was) the remediation completed	12/26/2024
What is the estimated surface area (in square feet) that will be reclaimed	7,385
What is the estimated volume (in cubic yards) that will be reclaimed	580
What is the estimated surface area (in square ft) that will be remediated	7,385
What is the estimated volume (in cubic yards) that will be remediated	580
The remediation will (or is expected to) utilize the following processes to remediate/reduce contaminants:	
• Excavation and off-site disposal	Yes
• 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	

After reviewing the analytical data of the samples collected, McNabb Partners and Murchison Oil & Gas propose excavating areas represented by sample IDs: SP 1 - SURF (H243836-01), SP 2 - SURF (H243836-02), SP 3 - SURF (H243836-03), CS-01 (0.5') (H244986-16), CS-02 (0.5') (H244986-19), CS-03 (0.5') (H244986-22), H-2 (0.5') (H244989-04), H-3 (0.5') (H244989-07), H-4 (0.5') (H244989-10) to a depth of one (1) ft bgs. The area represented by sample IDs: H-1 (10') (H245735-03) will be excavated to 10 ft bgs or until chloride, TPH and BTEX concentrations meet the NMOCD Closure Criteria for the site.

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Once the excavation to depths listed above is complete, base and side wall confirmation samples will be collected using a five (5) point composite method, representing an area not larger than 200 square feet. If any discoloration is noted, discrete grab soil samples will be collected from such areas. All confirmation samples will be sent to a certified laboratory for testing of BTEX, TPH and chloride concentrations. If any of the confirmation samples indicate concentrations that exceed the regulatory limits in Table I (NMAC 19.15.23.12), the areas represented by those samples will be further excavated until the concentrations are below the NMOCD Closure Criteria.

Approximately 7,385 sq ft of impacted soils will be remediated. A total of approximately 580 cubic yards (cu yd) of impacted soil will be excavated and disposed of an NMOCD approved facility.

All backfill material will be sampled for BTEX, TPH, and Chloride from a 5-point composite sample to meet NMOCD most stringent Closure Criteria.

Remediation activities will commence within 45 days of workplan approval and be completed with final sampling within 90 days of workplan approval.

Please contact me with any questions at (917) 497-6890.

Sincerely,



Dimitry Nikanorov  
Environmental Manager  
McNabb Partners



Copy: New Mexico State Land Office  
Murchison Oil and Gas



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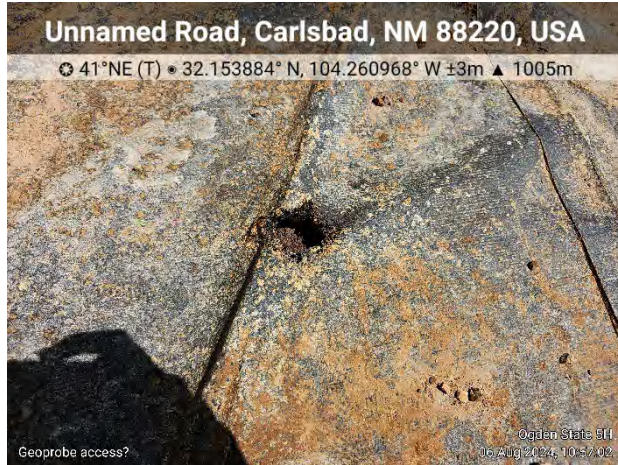


Figure 1. Example of the hole in a liner.



Figure 2. Sampling activities.



Figure 3. Sampling activities.



Figure 4. Sampling activities.



Figure 5. Sampling activities.



Figure 6. Sampling activities.



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Figure 7. Liner sampling (CS-05).



Figure 8. Liner sampling (CS-04).

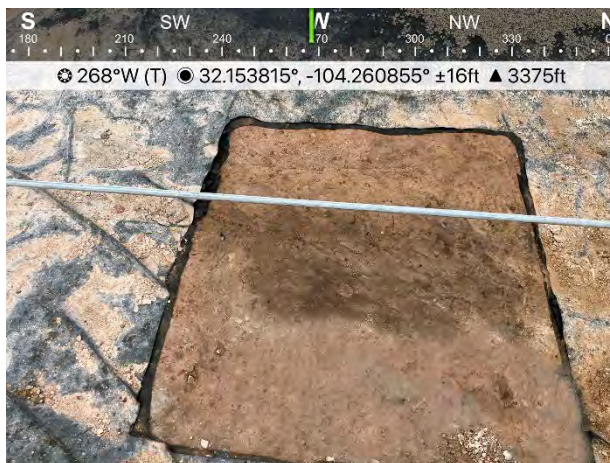


Figure 9. Liner sampling (CS-01).



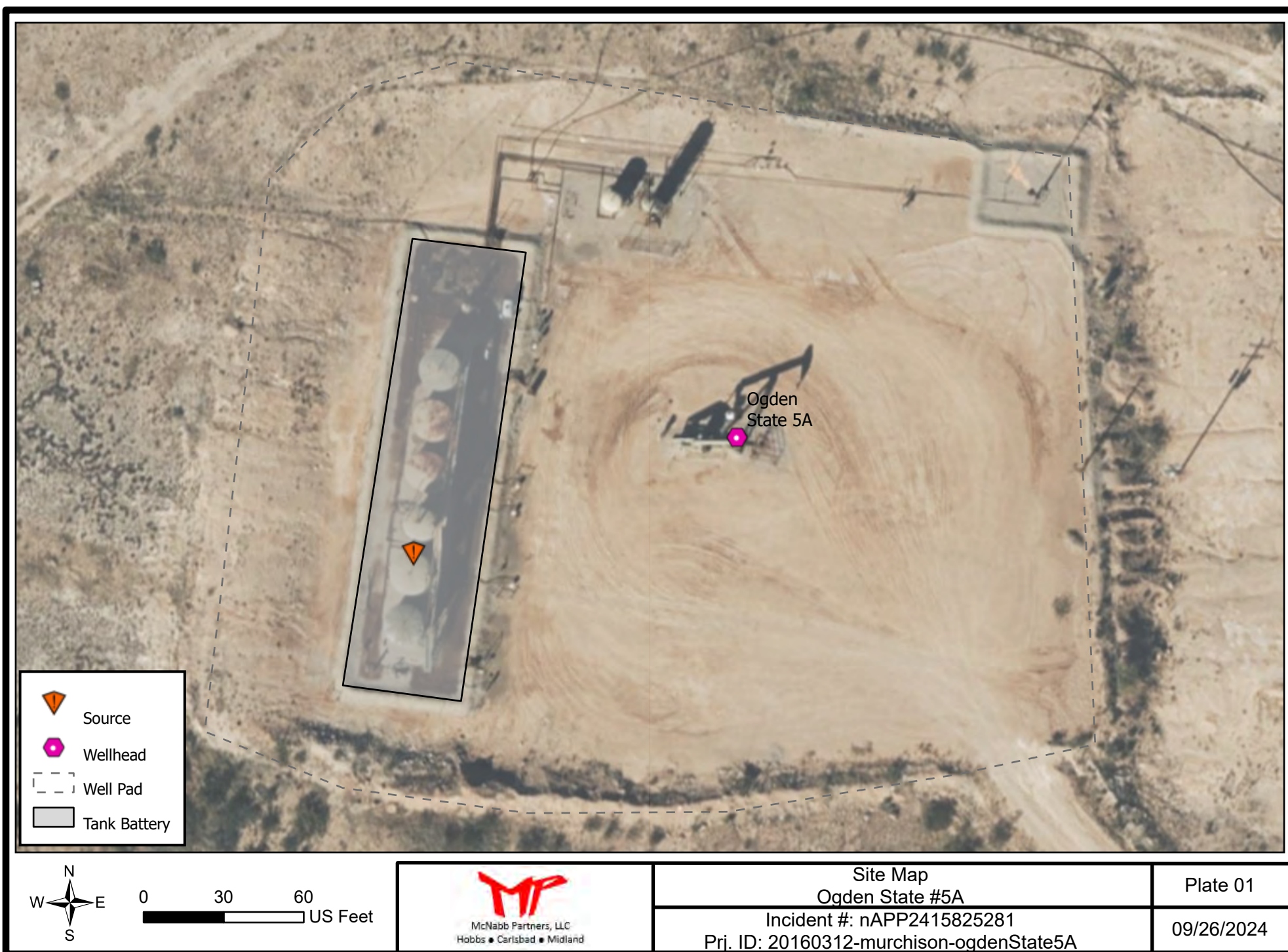
Figure 10. Area of Concern (H-1).

# Plates

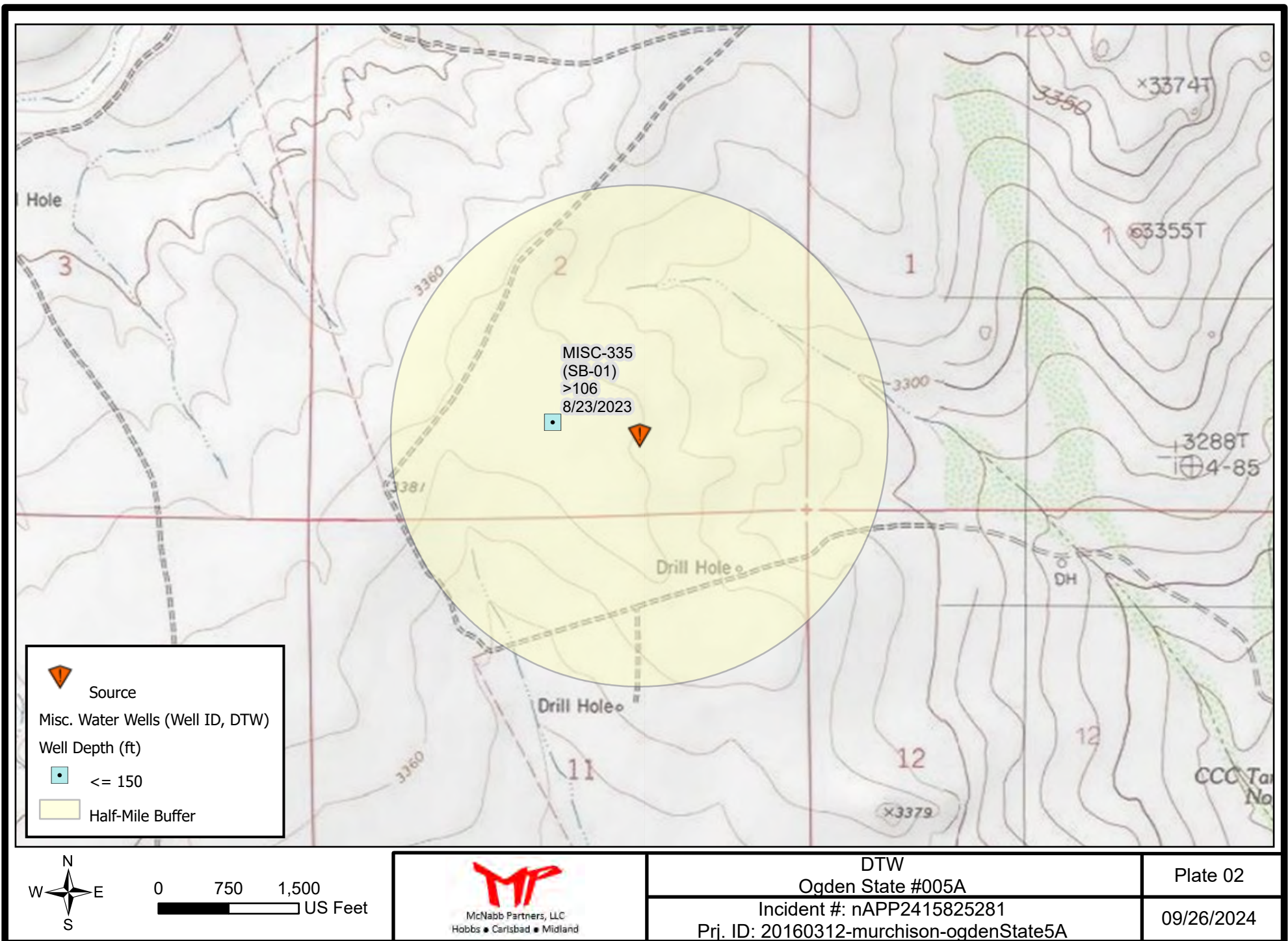


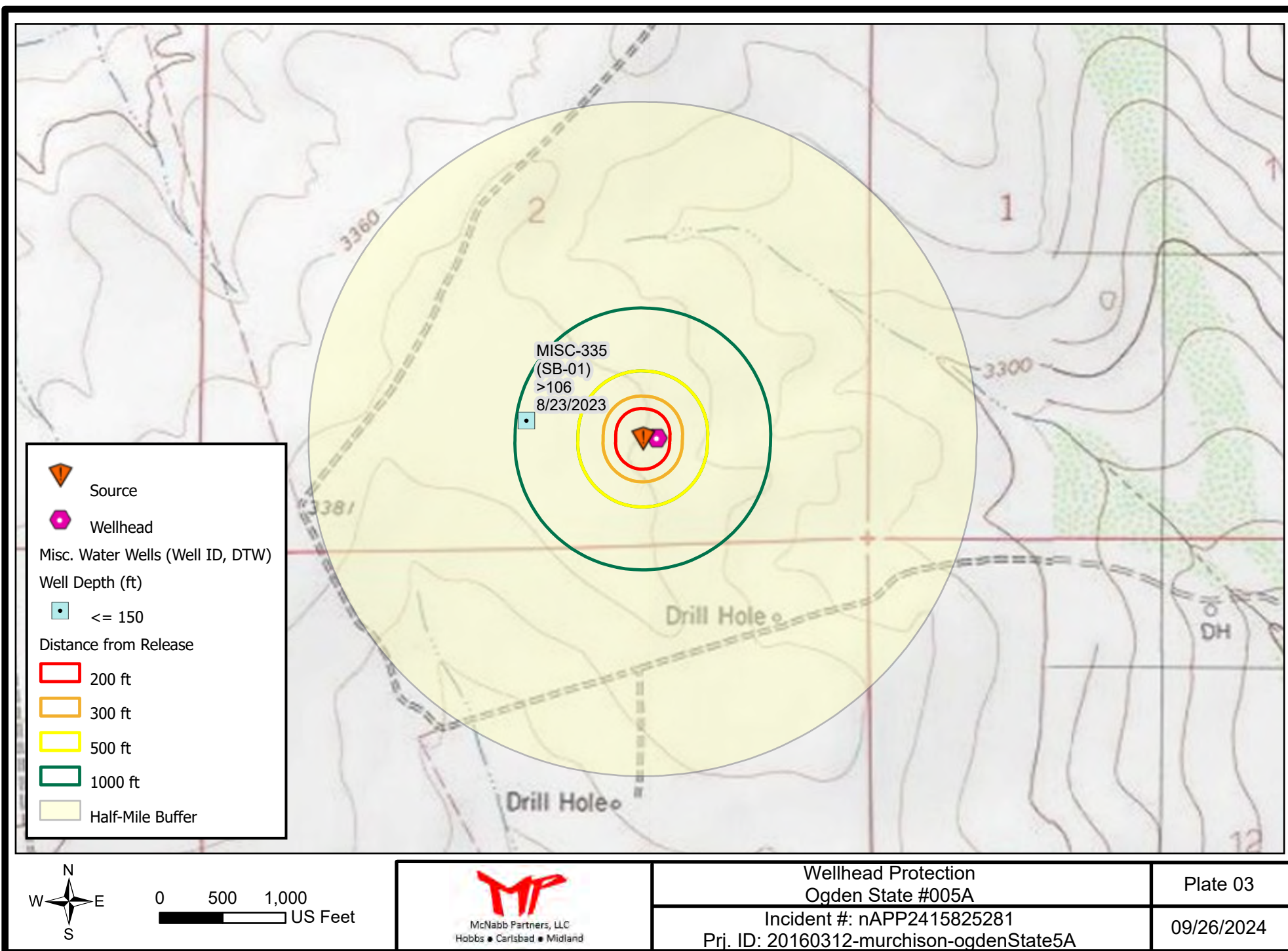
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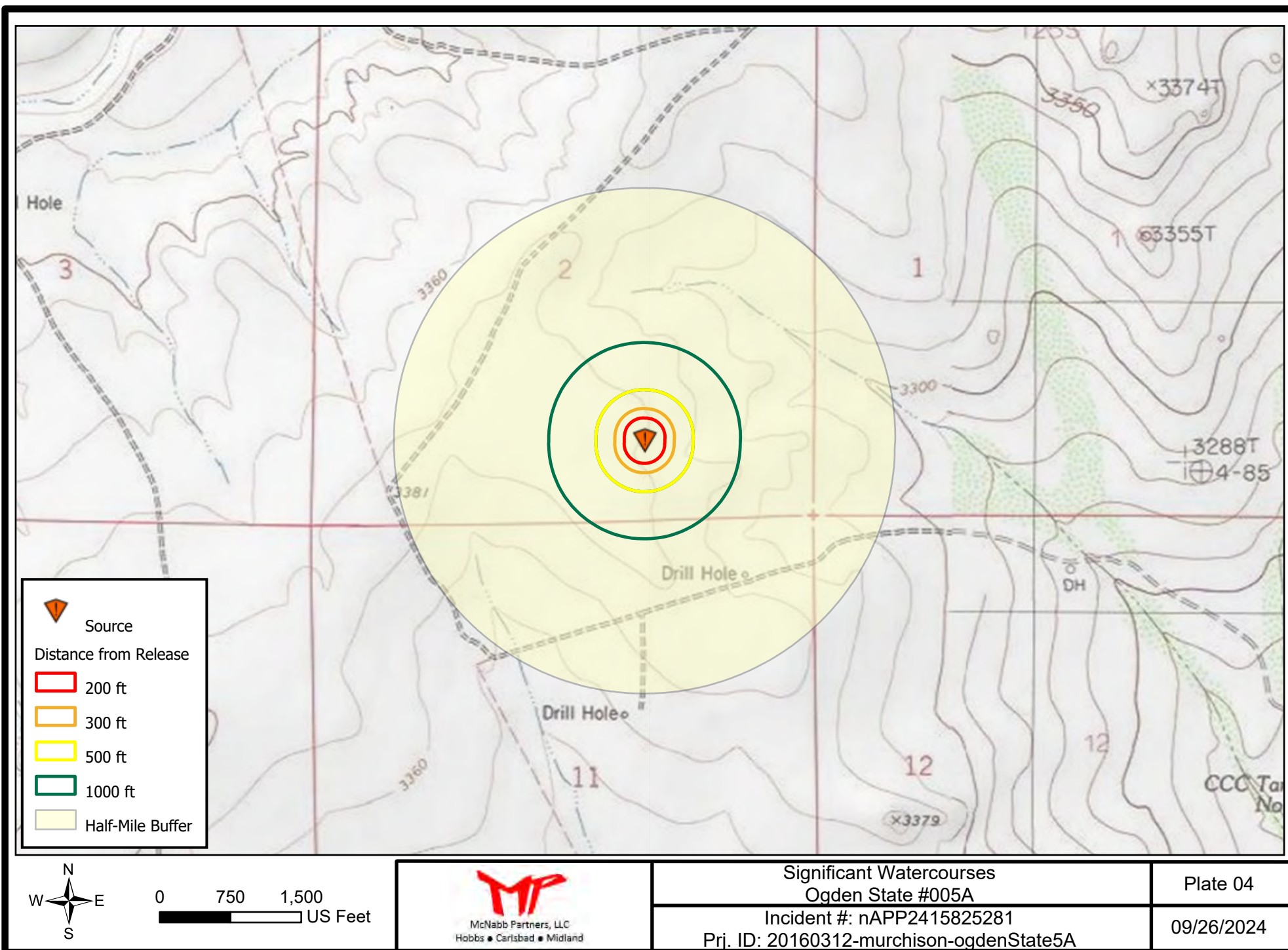




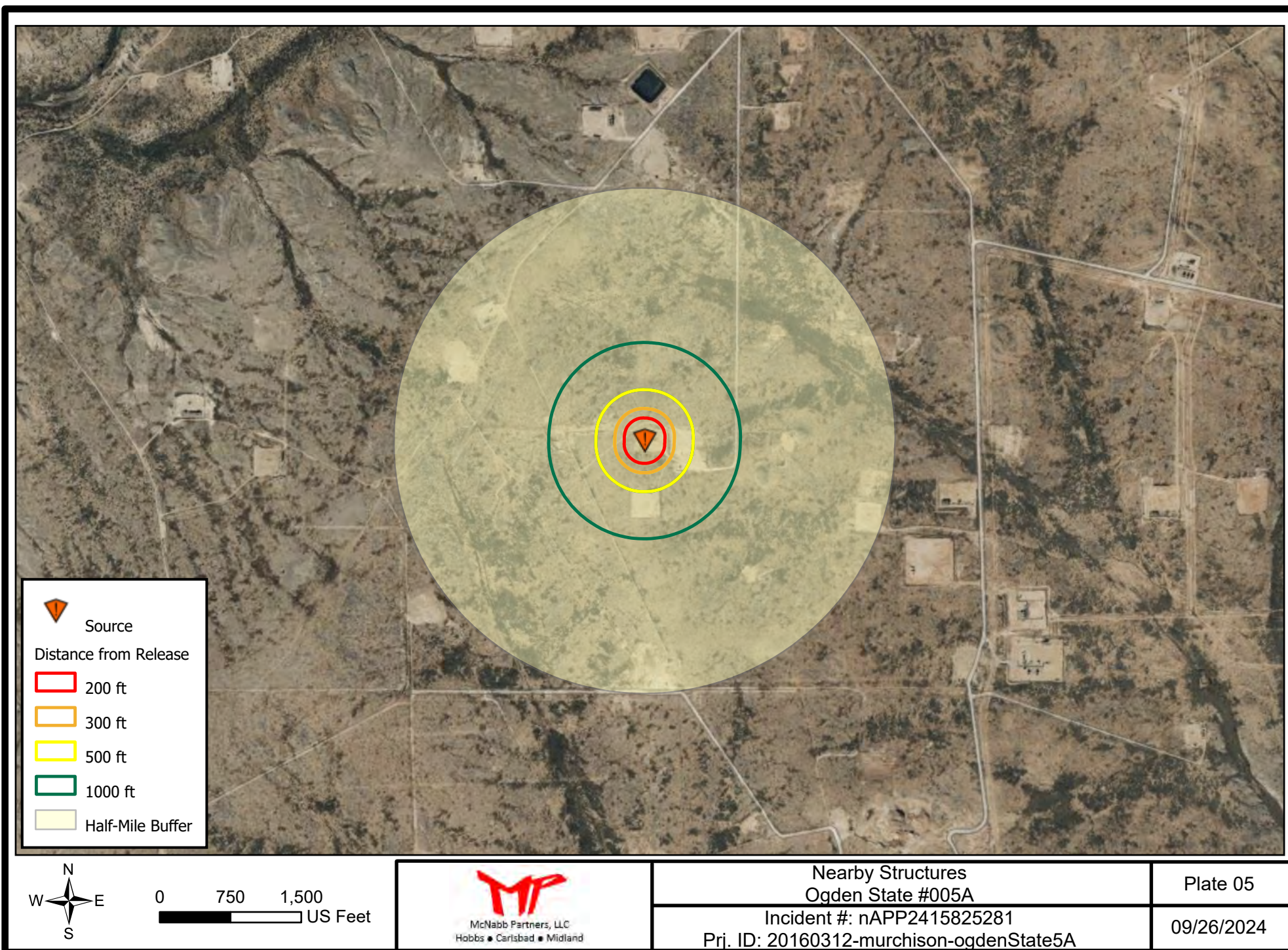




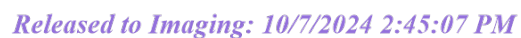




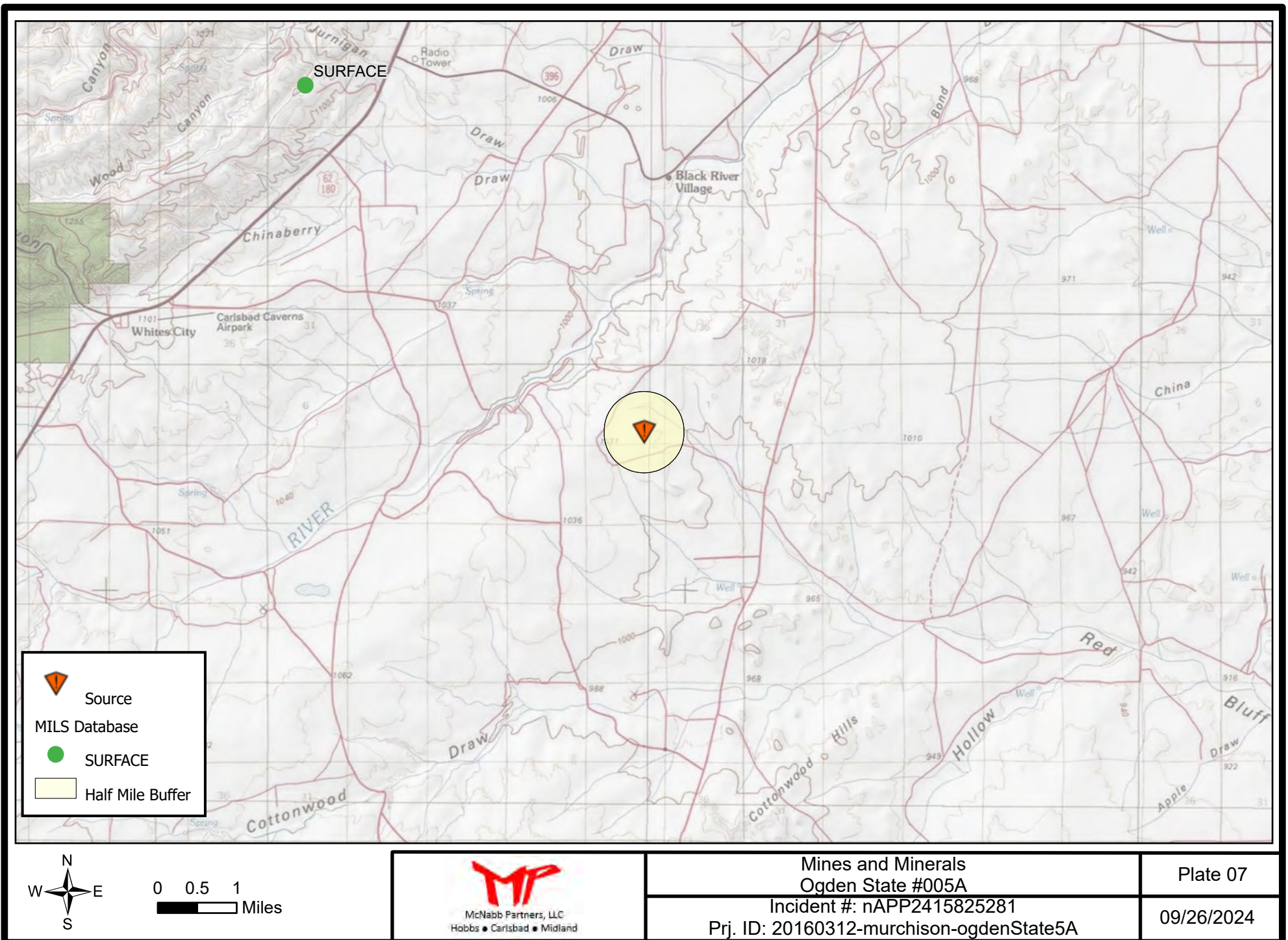




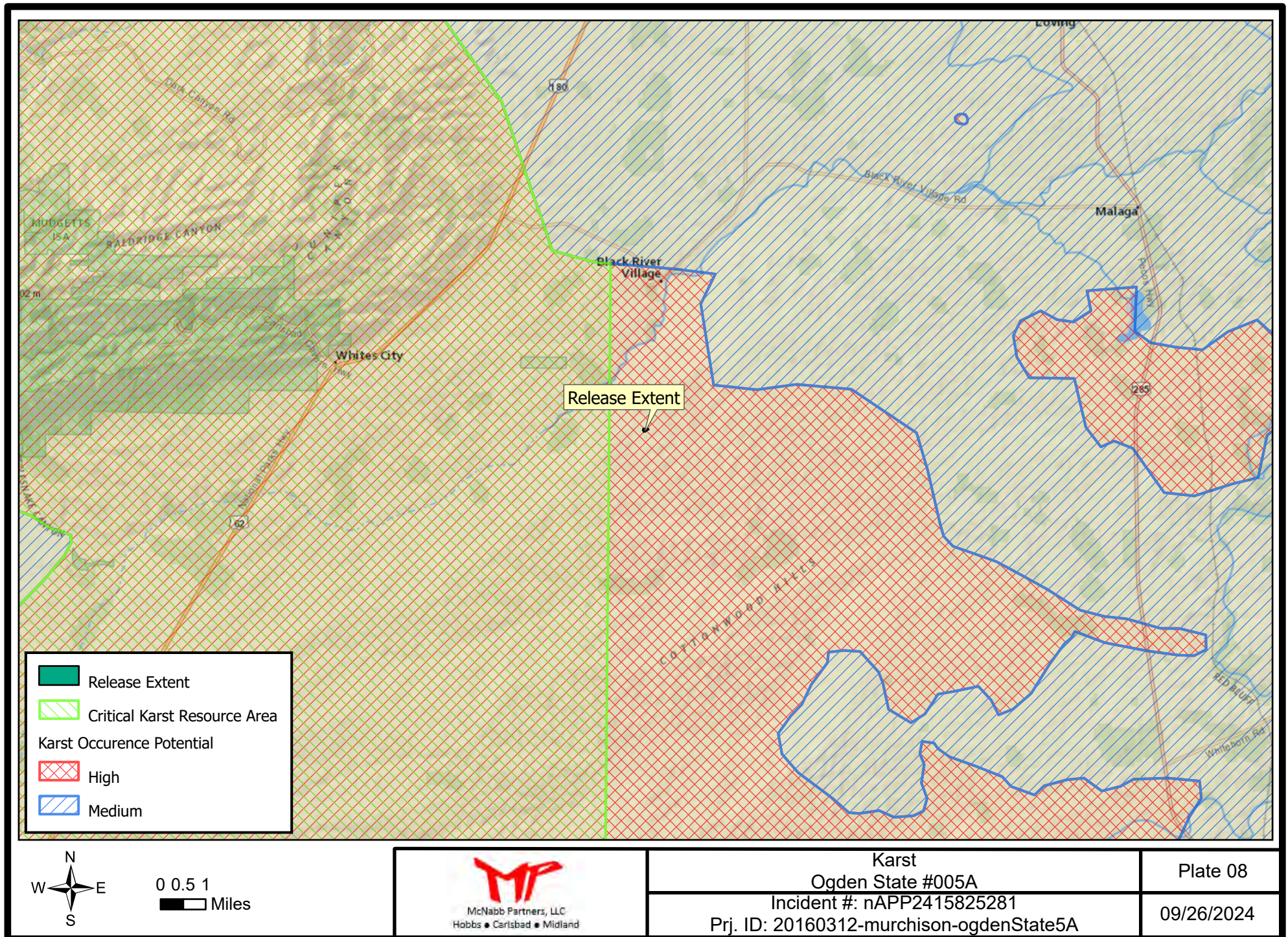




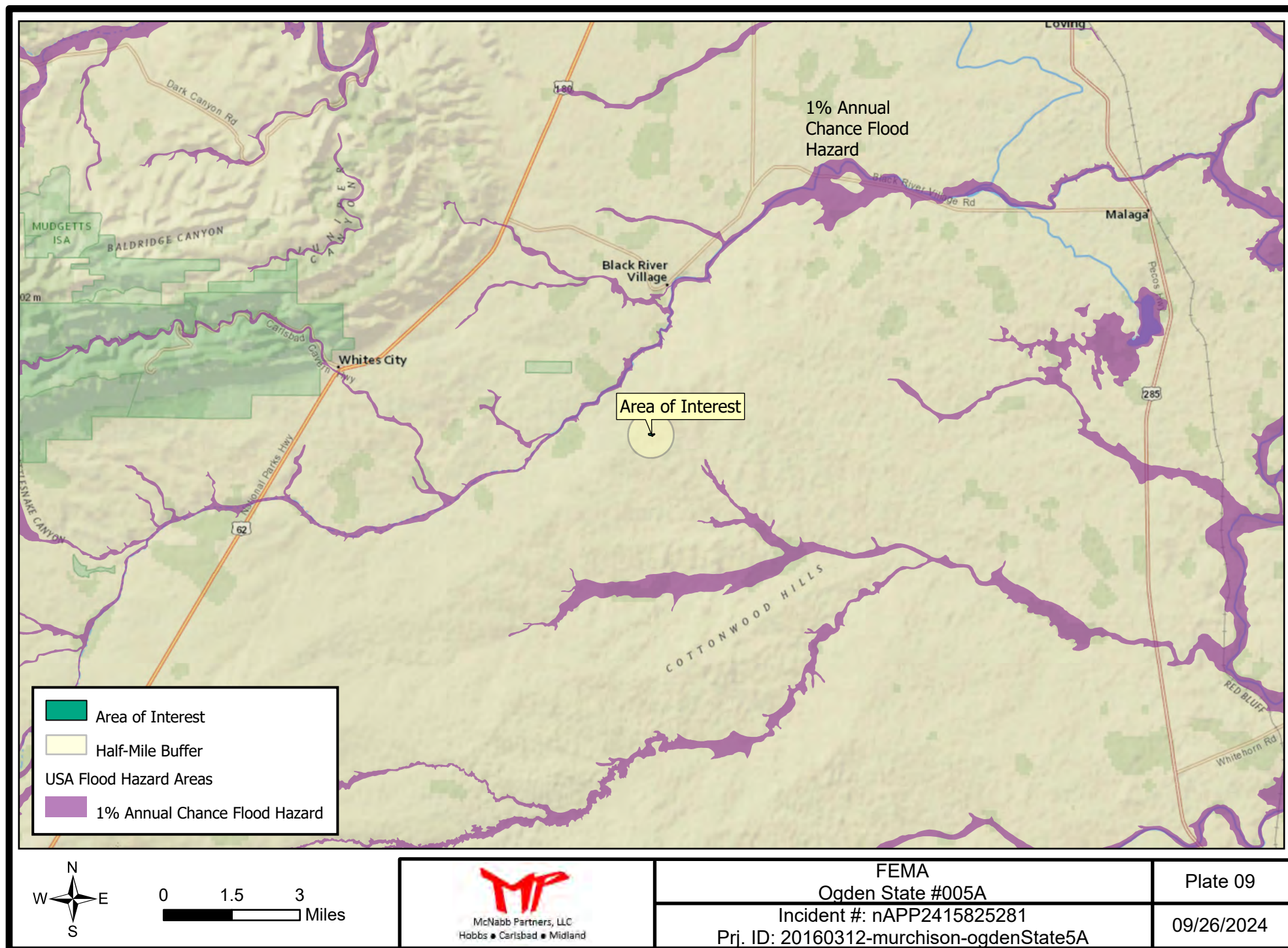




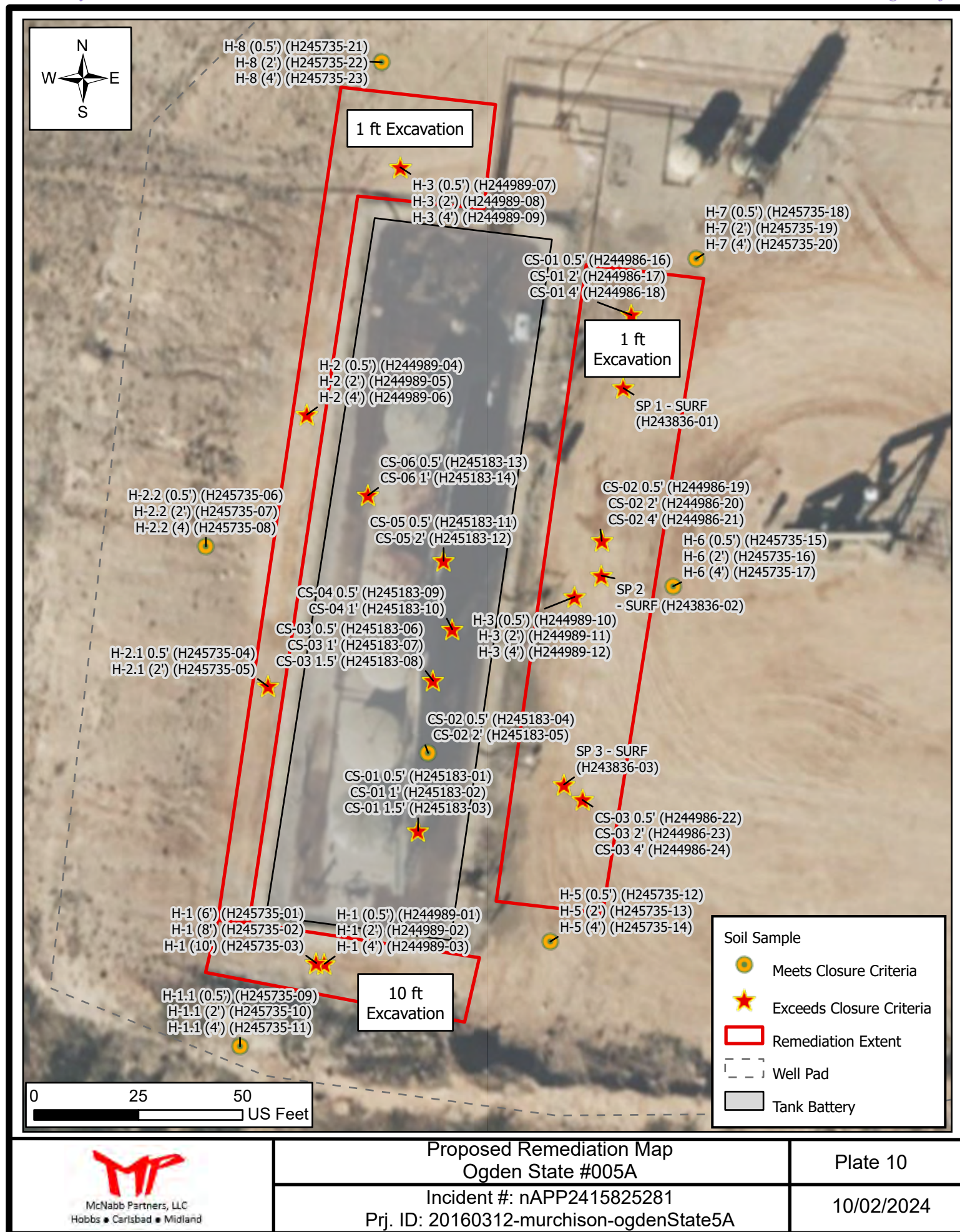












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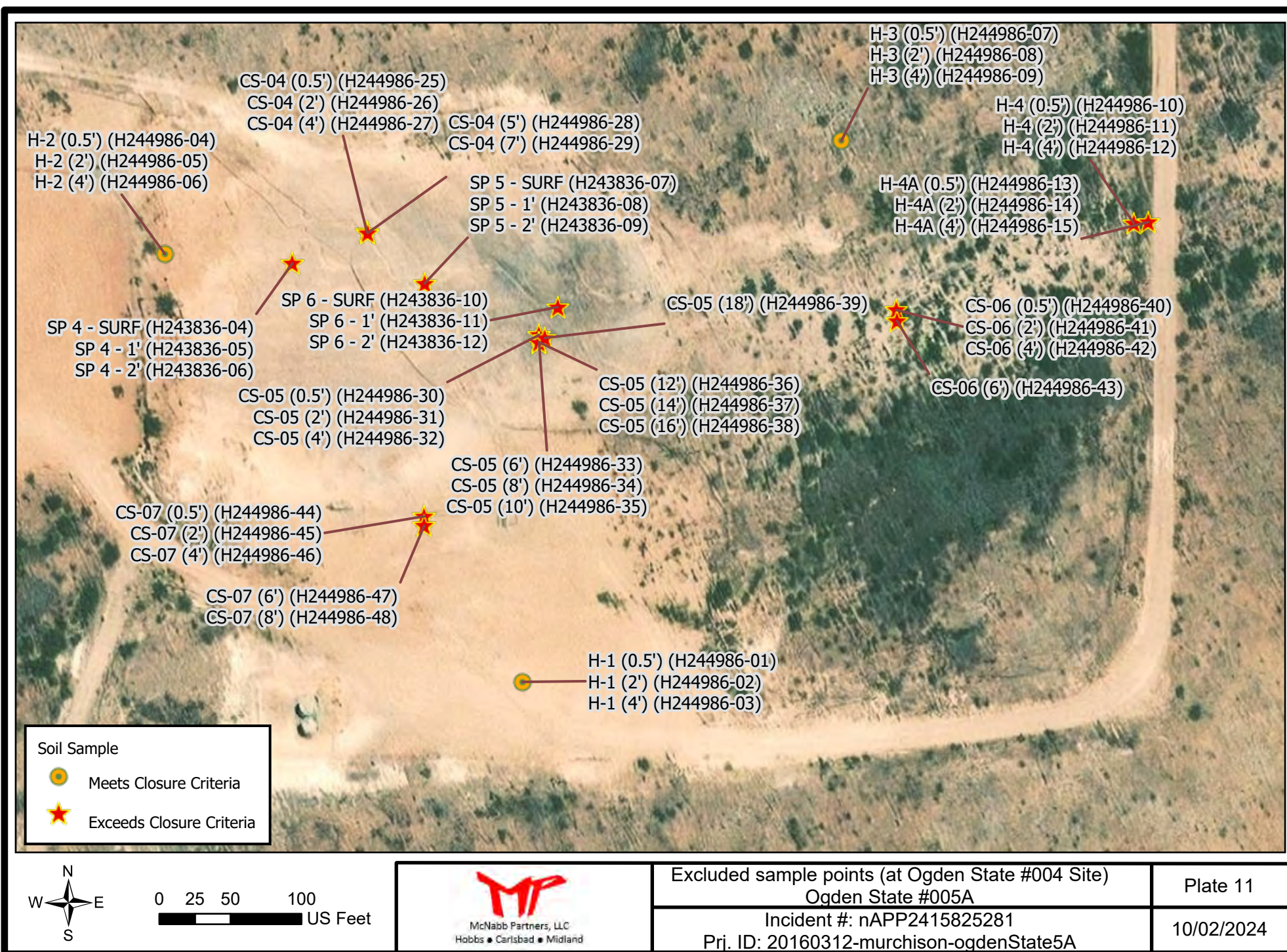
### Proposed Remediation Map Ogden State #005A

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Plate 10

10/02/2024





# Tables



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Table A. Analytical Summary  
Ogden State 5A

Date	Sample ID	Chloride (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO+DRO (mg/kg)	MRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
	NMOCD Closure Criteria	600	--	--	--	--	100	10	50
Samples within lined tank battery containment									
8/23/2024	CS-01 (0.5') (H245183-01)	528	96.6	1650	1746.6	396	2142.6	<0.050	1.41
8/23/2024	CS-01 (1') (H245183-02)	256	<10.0	49.7	49.7	12.4	62.1	<0.050	<0.300
8/23/2024	CS-01 (1.5') (H245183-03)	256	<10.0	27.9	27.9	<10.0	27.9	<0.050	<0.300
8/23/2024	CS-02 (0.5') (H245183-04)	112	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/23/2024	CS-02 (2') (H245183-05)	528	<10.0	10	<20.0	<10.0	10	<0.050	<0.300
8/23/2024	CS-03 (0.5') (H245183-06)	896	<10.0	54.3	54.3	19.4	73.7	<0.050	<0.300
8/23/2024	CS-03 (1') (H245183-07)	672	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/23/2024	CS-03 (1.5') (H245183-08)	480	<10.0	13.8	13.8	<10.0	13.8	<0.050	<0.300
8/23/2024	CS-04 (0.5') (H245183-09)	352	12.1	444	456.1	121	577.1	<0.050	<0.300
8/23/2024	CS-04 (1') (H245183-10)	240	<10.0	67.9	67.9	<10.0	67.9	<0.050	<0.300
8/23/2024	CS-05 (0.5') (H245183-11)	1070	21.9	1150	1171.3	279	1450.3	<0.050	0.289
8/23/2024	CS-05 (2') (H245183-12)	688	<10.0	42.5	42.5	<10.0	42.5	<0.050	<0.300
8/23/2024	CS-06 (0.5') (H245183-13)	288	27.5	377	404.5	89	493.5	<0.050	1.55
8/23/2024	CS-06 (1') (H245183-14)	128	46.4	977	1023.4	295	1318.4	<0.050	1.03
Samples outside of the lined containment									
6/25/2024	SP 1 - SURF (H243836-01)	6260	<10.0	<10.0	<20.0	40.1	40.1	<0.050	<0.300
6/25/2024	SP 2 - SURF (H243836-02)	16000	<10.0	108	108	62.7	170.7	<0.050	<0.300
6/25/2024	SP 3 - SURF (H243836-03)	9200	<10.0	1060	1060	583	1643	<0.050	<0.300
8/14/2024	CS-01 (0.5') (H244986-16)	8800	<10.0	1890	1890	636	2526	<0.050	<0.300
8/14/2024	CS-01 (2') (H244986-17)	384	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	CS-01 (4') (H244986-18)	112	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	CS-02 (0.5') (H244986-19)	2200	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	CS-02 (2') (H244986-20)	256	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	CS-02 (4') (H244986-21)	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	CS-03 (0.5') (H244986-22)	1150	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	CS-03 (2') (H244986-23)	112	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	CS-03 (4') (H244986-24)	96	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-1 (0.5') (H244989-01)	2080	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-1 (2') (H244989-02)	848	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-1 (4') (H244989-03)	1150	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300



Table A. Analytical Summary  
Ogden State 5A

Date	Sample ID	Chloride (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO+DRO (mg/kg)	MRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
	NMOCD Closure Criteria	600	--	--	--	--	100	10	50
9/19/2024	H-1 (6') (H245735-01)	1060	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-1 (8') (H245735-02)	560	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-1 (10') (H245735-03)	1060	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-1.1 (0.5') (H245735-09)	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-1.1 (2') (H245735-10)	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-1.1 (4') (H245735-11)	16	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-2 (0.5') (H244989-04)	656	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-2 (2') (H244989-05)	336	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-2 (4') (H244989-06)	208	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-2.1 (0.5') (H245735-04)	1960	<10.0	66.8	66.8	148	214.8	<0.050	<0.300
9/19/2024	H-2.1 (2') (H245735-05)	224	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-2.2 (0.5') (H245735-06)	512	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-2.2 (2') (H245735-07)	224	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-2.2 (4') (H245735-08)	80	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-3 (0.5') (H244989-07)	928	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-3 (2') (H244989-08)	64	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-3 (4') (H244989-09)	256	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-4 (0.5') (H244989-10)	1980	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-4 (2') (H244989-11)	80	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
8/14/2024	H-4 (4') (H244989-12)	16	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-5 (0.5') (H245735-12)	80	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-5 (2') (H245735-13)	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-5 (4') (H245735-14)	112	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-6 (0.5') (H245735-15)	64	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-6 (2') (H245735-16)	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-6 (4') (H245735-17)	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-7 (0.5') (H245735-18)	64	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-7 (2') (H245735-19)	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-7 (4') (H245735-20)	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-8 (0.5') (H245735-21)	16	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
9/19/2024	H-8 (2') (H245735-22)	48	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300

Table A. Analytical Summary  
Ogden State 5A

Date	Sample ID	Chloride (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	GRO+DRO (mg/kg)	MRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
	NMOCD Closure Criteria	600	--	--	--	--	100	10	50
9/19/2024	H-8 (4') (H245735-23)	16	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300
	Sample exceeds NMOCD Closure Criteria								

# Appendix A

## Communications



McNabb Partners, LLC  
Hobbs • Carlsbad • Midland

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 360545

**QUESTIONS**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID:
	15363
	Action Number:
	360545
Action Type:	
[NOTIFY] Notification Of Liner Inspection (C-141L)	

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2415825281
Incident Name	NAPP2415825281 OGDEN STATE #005A @ 30-015-37264
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-37264] OGDEN STATE #005A

Location of Release Source	
Site Name	Ogden State #005A
Date Release Discovered	03/12/2016
Surface Owner	State

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	4,800
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	07/09/2024
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	Zach Conder, 575-640-6786
Please provide any information necessary for navigation to liner inspection site	32.154244, -104.263972



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
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Phone:(575) 748-1283 Fax:(575) 748-9720  
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1000 Rio Brazos Rd., Aztec, NM 87410  
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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 360545

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 360545
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
ccottrell	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	7/2/2024

**District I**

1625 N. French Dr., Hobbs, NM 88240  
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**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

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

QUESTIONS

Action 372132

**QUESTIONS**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 372132
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2415825281
Incident Name	NAPP2415825281 OGDEN STATE #005A @ 30-015-37264
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-37264] OGDEN STATE #005A

Location of Release Source	
Site Name	Ogden State #005A
Date Release Discovered	03/12/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	5
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/14/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Please contact <a href="mailto:andrew@mcnabbpartners.com">andrew@mcnabbpartners.com</a> if needed. (970) 570-9535
Please provide any information necessary for navigation to sampling site	GPS coordinates: 32.153854, -104.260968

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
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811 S. First St., Artesia, NM 88210  
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1000 Rio Brazos Rd., Aztec, NM 87410  
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**District IV**  
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 372132

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 372132
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
aparkernp	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/8/2024

**District I**

1625 N. French Dr., Hobbs, NM 88240  
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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 375579

**QUESTIONS**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 375579
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2415825281
Incident Name	NAPP2415825281 OGDEN STATE #005A @ 30-015-37264
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-37264] OGDEN STATE #005A

Location of Release Source	
Site Name	Ogden State #005A
Date Release Discovered	03/12/2016
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	18
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/23/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Christopher Turner 575-441-0080
Please provide any information necessary for navigation to sampling site	GPS coordinates: 32.153854, -104.260968

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
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**District III**  
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 375579

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 375579
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
aparkernp	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/20/2024

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1625 N. French Dr., Hobbs, NM 88240  
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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 384253

**QUESTIONS**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 384253
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2415825281
Incident Name	NAPP2415825281 OGDEN STATE #005A @ 30-015-37264
Incident Type	Other
Incident Status	Initial C-141 Approved
Incident Well	[30-015-37264] OGDEN STATE #005A

**Location of Release Source**

Site Name	Ogden State #005A
Date Release Discovered	03/12/2016
Surface Owner	State

**Sampling Event General Information***Please answer all the questions in this group.*

What is the sampling surface area in square feet	1,400
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/19/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Please contact dimitry@mcnabbpartners.com or at 917-497-6890
Please provide any information necessary for navigation to sampling site	GPS coordinates: 32.153983, -104.261142

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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 384253

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 384253
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
aparkernp	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/17/2024



Outlook

## RE: [EXTERNAL] Extension Requests

From Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Date Fri 8/30/2024 9:17 AM

To Cindy Cottrell <ccottrell@jdmii.com>

Cc Greg Boans <gboans@jdmii.com>; Andrew Parker <Andrew@mcnabbpartners.com>; Dmitry Nikanorov <Dimitry@mcnabbpartners.com>; Rusty Cooper <rcooper@jdmii.com>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>; Moander, Chris, EMNRD <Chris.Moander@emnrd.nm.gov>

Cindy,

The 30-day extension requests are approved. Please see the table below for the new due dates, in red, for each incident. Please include a copy of this correspondence in each of the next submittals. Please be advised, pursuant to 19.15.29 NMAC, due dates are calculated from the date of discovery not from the submittal dates of the NOR or initial C-141.

Incident Number	API/Facility ID	Well/Facility	Due	Extension approval- new due date
nAPP2415754364	30-015-38060	Carbon Valley 25 Fed Com 7H	8/30/24	9/30/2024
nAPP2415757665	30-015-37683	Carbon Valley 26 Fed Com 1	8/30/24	9/30/2024
nAPP2415757870	30-015-37603	Carbon Valley 31 Fed Com 1	9/3/24	10/3/2024
nAPP2415825281	30-015-37264	Ogden State 5A	9/4/24	10/4/2024

Can you please give me an update on **NAPP2415825479** FROSTY FEDERAL COM #001(30-015-37003) and **NAPP2415757342** CARBON VALLEY 26 FEDERAL COM #002H (30-015-37684)? The NORs and initial C-141s for these 2 releases were submitted at the same time the incidents listed in the table above were submitted, but OCD has not received any addition C-141s for these incidents.

Thank you,

**Brittany Hall** • Environmental Specialist

Environmental Bureau Projects Group

EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87110

505.517.5333 | [Brittany.Hall@emnrd.nm.gov](mailto:Brittany.Hall@emnrd.nm.gov)

<http://www.emnrd.nm.gov/ocd/>

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMNRD Website prior to submitting any C-141s. The guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

From: Cindy Cottrell <ccottrell@jdmii.com>

Sent: Wednesday, August 28, 2024 1:14 PM

To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Cc: Greg Boans <gboans@jdmii.com>; andrew@mcnabbpartners.com; Dmitry Nikanorov <Dimitry@mcnabbpartners.com>; Rusty Cooper <rcooper@jdmii.com>

Subject: RE: [EXTERNAL] Extension Requests

Ok, that's what we were thinking. Thanks for confirming.



**From:** Hall, Brittany, EMNRD <[Brittany.Hall@emnrd.nm.gov](mailto:Brittany.Hall@emnrd.nm.gov)>  
**Sent:** Wednesday, August 28, 2024 2:13 PM  
**To:** Cindy Cottrell <[ccottrell@jdmii.com](mailto:ccottrell@jdmii.com)>  
**Cc:** Greg Boans <[gboans@jdmii.com](mailto:gboans@jdmii.com)>; [andrew@mcnabbpartners.com](mailto:andrew@mcnabbpartners.com); Dmitry Nikanorov <[Dimitry@mcnabbpartners.com](mailto:Dimitry@mcnabbpartners.com)>; Rusty Cooper <[rcooper@jdmii.com](mailto:rcooper@jdmii.com)>  
**Subject:** RE: [EXTERNAL] Extension Requests

Cindy,

OCD is holding off on approving/denying these extensions until the meeting on Friday.

Thank you,

**Brittany Hall** • Environmental Specialist  
Environmental Bureau Projects Group  
EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87110  
505.517.5333 | [Brittany.Hall@emnrd.nm.gov](mailto:Brittany.Hall@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/ocd/>

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMNRD Website prior to submitting any C-141s. The guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

---

**From:** Cindy Cottrell <[ccottrell@jdmii.com](mailto:ccottrell@jdmii.com)>  
**Sent:** Monday, August 26, 2024 9:54 AM  
**To:** Hall, Brittany, EMNRD <[Brittany.Hall@emnrd.nm.gov](mailto:Brittany.Hall@emnrd.nm.gov)>  
**Cc:** Greg Boans <[gboans@jdmii.com](mailto:gboans@jdmii.com)>; [andrew@mcnabbpartners.com](mailto:andrew@mcnabbpartners.com); Dmitry Nikanorov <[Dimitry@mcnabbpartners.com](mailto:Dimitry@mcnabbpartners.com)>; Rusty Cooper <[rcooper@jdmii.com](mailto:rcooper@jdmii.com)>  
**Subject:** [EXTERNAL] Extension Requests

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Brittany,

As you know we ran into issues sampling within the lined containments and have a meeting scheduled this Friday to discuss. We would like to request a 30-day extension for the incidents listed below in order to complete delineation sampling, obtain lab results and remediate.

Incident Number	API/Facility ID	Well/Facility	Due
nAPP2415754364	30-015-38060	Carbon Valley 25 Fed Com 7H	8/30/24
nAPP2415757665	30-015-37683	Carbon Valley 26 Fed Com 1	8/30/24
nAPP2415757870	30-015-37603	Carbon Valley 31 Fed Com 1	9/3/24
nAPP2415825281	30-015-37264	Ogden State 5A	9/4/24

Thank you for your consideration.



Cindy Cottrell  
Regulatory Coordinator & Corporate Secretary  
7250 Dallas Parkway, Suite 1400  
Plano, TX 75024

Direct Line: 469-573-6413

# Appendix B

## Well Logs



McNabb Partners, LLC  
Hobbs • Carlsbad • Midland

# R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

## Memorandum

From: Kristin Pope

Date: September 11, 2023

**RE: Murchison-Ogden St. 5A release, Characterization Soil Boring**  
Lat./long.: 32.15434, -104.26397

The subject site is located approximately 12 miles south of Carlsbad city limits, with a surface elevation of approximately 3,390 feet asl. On August 23, 2023, I met the client Greg Boans (Murchison), Dr. David Decker (Southwest Geophysical Consulting), and representatives of Ready Drill LLC on site to install an investigative soil boring nearest the release origin. To maintain a safe distance from active, underground pipelines, the soil boring was located approximately 20 feet northwest of the junction, or "tee" as shown on the adjacent image. The location was within the berms surrounding the release footprint.



2023 Google Earth satellite image

Weather conditions were cloudy with moderate-light but steady rain. Drilling began at 9:20 a.m. MST with instructions to the driller to proceed at a consistent rate and pressure. I continuously monitored the cuttings during each trip while regularly communicating with the driller as to the "feel" of the drilling, with instructions to inform Dr. Decker and me if any moisture was suspected or voids were encountered. I recorded the lithology and moisture content with each trip out of the hole. If any appreciable moisture would have been indicated, the operation would have been suspended to allow the water to accumulate and then measured.

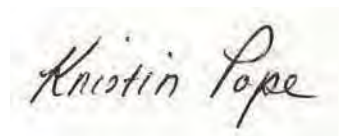
Drilling steadily advanced at a rate of approximately 0.75 feet per minute until 23 feet, when heavy rain precluded inspection of cuttings and drilling ceased until the rain let up at 10:28 a.m. Hard dolomitic and gypsy rock in a matrix of silt and clay caused the need for a bit change at 38 feet. After this depth, drilling slowed to a rate of approximately 0.2 feet per minute. Hard drilling continuing from 52 feet until the remainder of the hole. Dr. Decker also inspected cuttings and communicated with the driller regarding karst considerations until 12:21 p.m. when he departed; we discussed the remainder of the soil boring conditions and lithologies later that day.

At 73 feet, the cuttings became dusty and continued until total depth was reached as planned, at 105 feet. No water or drilling fluids were used during drilling and the hole was backfilled with cuttings. I observed no water or measurable moisture in any of the cuttings I inspected, nor did the driller

Page 2

indicate any conditions associated with subsoil dampness or saturation. The experienced driller stated that he did not observe or feel any instances of the bit dropping which indicate the presence of voids.

Representative samples were submitted for laboratory analysis of chloride. Chloride concentrations, drilling conditions, and lithologies are summarized in the enclosed boring log. Based on my observations, I am certain that no groundwater is present below the surface of this well site to 105 feet (3,285 feet asl).

A handwritten signature in black ink that reads "Kristin Pope". The signature is written in a cursive style and is centered within a light gray rectangular box.

<b>Logger:</b>	Kristin Pope	<b>Client:</b>	Murchison Oil & Gas		<b>Well ID:</b>	<b>SB-1</b> (approx. 20 ft NW of pipeline tee)				
<b>Driller:</b>	Ready Drill LLC	<b>Project Name:</b>	Ogden 5A release							
<b>Drilling Method:</b>	CZM EK125 auger	<b>Location:</b>	Eddy County							
<b>Start Date:</b>	8/23/2023									
<b>End Date:</b>	8/23/2023									
moderate and steady rain			32.15434, -104.26397	Sec. 2, T25S, R26E						
<b>Depth</b> (feet BGS)	<b>Description</b>	<b>Time</b> MST	<b>Remarks</b>	<b>Lithology</b>	<b>Completion</b>	<b>Sample ID</b> (chloride mg/kg)	<b>Depth</b> (feet BGS)			
0	Surface	0920	Samples collected from auger bit; all samples were dry			Lab Analysis	0			
2	Green-gray silty clay		20 ft - heavy rain delay		Borehole backfilled with cuttings	SB @ 3 ft = 2600	2			
4										
6										
8										
10	Red clay with 15% dark gray dolomite	0931						SB @ 6 ft = 1460	6	
12										
14	Red & gray silt with 15% gray-white gypsum							SB @ 10 ft = 544	10	
16		0948								
18	Red silt with gray & white, vitreous gypsum flakes; 20% dark gray dolomite	0952						SB @ 16 ft = 336	16	
20								SB @ 20 ft = 432	20	
22							22			
24	Gray-white gypsum/dolomitic layers with tan silt		38 ft - Heavy rain delay; bit change		Borehole backfilled with cuttings		24			
26										
28										
30		1028						SB @ 30 ft = 192	30	
32										
34										
36										
38										
40										
42						1110			SB @ 42.5 ft = 288	42
44	Gray silt with dark gray-white dolomite		52-90 ft - hard drilling		Borehole backfilled with cuttings		44			
46										
48										
50										
52		1135						SB @ 52 ft = 208	52	
54										
56										
58										
60						1200	At 60 ft, calcite or gypsum crystals appear until TD			60
62										
64										
66		1221								
68	Tan-light gray silt with 40% hard, gray limestone or dolostone layers or lenses		At 79 ft, becomes dusty (finer, less consolidated)		Borehole backfilled with cuttings		68			
70										
72										
74		1240						SB @ 73 ft = 352	74	
76										
78										
80										
82										
84										
86										
88										
90		1352			SB @ 73 ft = 384	90				
92										
94										
96										
98										
100										
102										
104										
TD 105		1447	TD = 105 ft			SB @ 73 ft = 576	TD 105			
<b>R.T. Hicks Consultants, Ltd</b> 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104		<b>Murchison Oil &amp; Gas</b>			<b>Plate #</b>					
		<b>Ogden 5A Release: Soil Boring Log</b>			<b>Sept 2023</b>					





3-ft sample: demonstration of plasticity



6-ft sample: appearance of red clay at  
bottom of auger

10-ft sample: auger (right), dolomite (bottom)







16-ft sample: Silt with gypsum or dolomite

20-ft sample: Auger (left) and  
vitreous gypsum shown (bottom)



30-ft sample: Dolomite or gypsum with silt

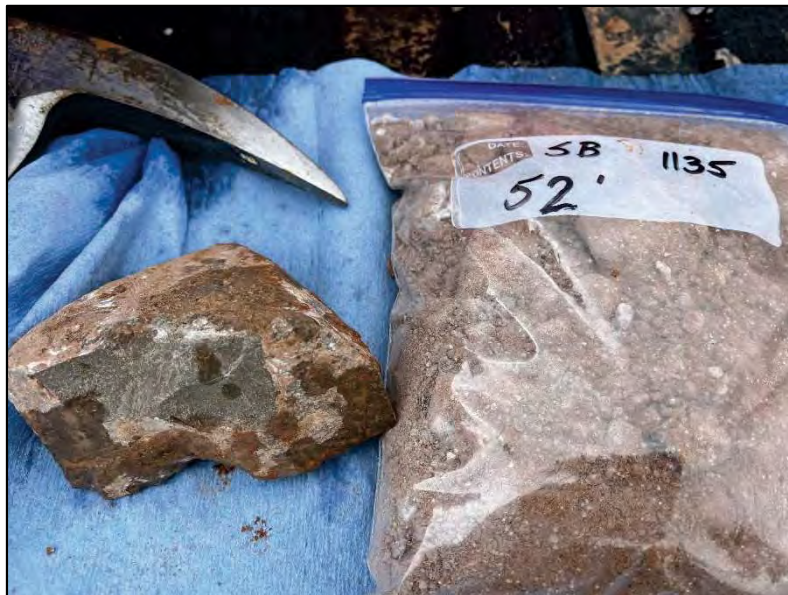






42.5 ft-sample: Silt with dolomite

52-ft sample: hard limestone or dolomite in silt (left),  
auger(right)



60-ft sample





73-ft sample: auger (left), silt with limestone or dolomite (above)

90-ft sample: returns have become dusty



Hard dolomite or limestone at 95 ft





Hard dolomite at 99 ft



105-ft sample from TD (above); spin of final TOOH (left)

# **Appendix C**

## **Certificates of Analysis**



McNabb Partners, LLC  
Hobbs • Carlsbad • Midland



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

July 03, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: OGDEN STATE 4

Enclosed are the results of analyses for samples received by the laboratory on 06/26/24 14:52.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 06/26/2024  
 Reported: 07/03/2024  
 Project Name: OGDEN STATE 4  
 Project Number: MURCHISON  
 Project Location: UL/ P SEC 2 T25S - R26E

Sampling Date: 06/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 1 - SURF (H243836-01)**

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	07/02/2024	ND	1.99	99.6	2.00	3.84		
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	4.28		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.17	109	2.00	4.65		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.73	112	6.00	4.30		
Total BTEx	<0.300	0.300	07/02/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6260	16.0	07/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	40.1	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 06/26/2024  
 Reported: 07/03/2024  
 Project Name: OGDEN STATE 4  
 Project Number: MURCHISON  
 Project Location: UL/ P SEC 2 T25S - R26E

Sampling Date: 06/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 2 - SURF (H243836-02)**

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	07/02/2024	ND	1.99	99.6	2.00	3.84		
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	4.28		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.17	109	2.00	4.65		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.73	112	6.00	4.30		
Total BTEX	<0.300	0.300	07/02/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16000	16.0	07/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	108	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	62.7	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 06/26/2024  
 Reported: 07/03/2024  
 Project Name: OGDEN STATE 4  
 Project Number: MURCHISON  
 Project Location: UL/ P SEC 2 T25S - R26E

Sampling Date: 06/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 3 - SURF (H243836-03)**

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	07/02/2024	ND	1.99	99.6	2.00	3.84		
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	4.28		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.17	109	2.00	4.65		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.73	112	6.00	4.30		
Total BTEX	<0.300	0.300	07/02/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9200	16.0	07/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	1060	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	583	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 06/26/2024  
 Reported: 07/03/2024  
 Project Name: OGDEN STATE 4  
 Project Number: MURCHISON  
 Project Location: UL/ P SEC 2 T25S - R26E

Sampling Date: 06/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 4 - SURF (H243836-04)**

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	07/02/2024	ND	1.99	99.6	2.00	3.84		
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	4.28		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.17	109	2.00	4.65		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.73	112	6.00	4.30		
Total BTEx	<0.300	0.300	07/02/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	52000	16.0	07/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 06/26/2024  
 Reported: 07/03/2024  
 Project Name: OGDEN STATE 4  
 Project Number: MURCHISON  
 Project Location: UL/ P SEC 2 T25S - R26E

Sampling Date: 06/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 4 - 1' (H243836-05)**

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	07/02/2024	ND	1.99	99.6	2.00	3.84		
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	4.28		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.17	109	2.00	4.65		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.73	112	6.00	4.30		
Total BTEX	<0.300	0.300	07/02/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16000	16.0	07/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 06/26/2024  
 Reported: 07/03/2024  
 Project Name: OGDEN STATE 4  
 Project Number: MURCHISON  
 Project Location: UL/ P SEC 2 T25S - R26E

Sampling Date: 06/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 4 - 2' (H243836-06)**

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	07/02/2024	ND	1.99	99.6	2.00	3.84		
Toluene*	<0.050	0.050	07/02/2024	ND	2.16	108	2.00	4.28		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.17	109	2.00	4.65		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	6.73	112	6.00	4.30		
Total BTEX	<0.300	0.300	07/02/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14000	16.0	07/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	18.7	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 06/26/2024  
 Reported: 07/03/2024  
 Project Name: OGDEN STATE 4  
 Project Number: MURCHISON  
 Project Location: UL/ P SEC 2 T25S - R26E

Sampling Date: 06/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 5 - SURF (H243836-07)**

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	07/02/2024	ND	1.91	95.4	2.00	5.30		
Toluene*	<0.050	0.050	07/02/2024	ND	1.91	95.3	2.00	6.40		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.04	102	2.00	7.16		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.98	99.7	6.00	7.39		
Total BTEx	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	40800	16.0	07/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 06/26/2024  
 Reported: 07/03/2024  
 Project Name: OGDEN STATE 4  
 Project Number: MURCHISON  
 Project Location: UL/ P SEC 2 T25S - R26E

Sampling Date: 06/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 5 - 1' (H243836-08)**

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	07/02/2024	ND	1.91	95.4	2.00	5.30		
Toluene*	<0.050	0.050	07/02/2024	ND	1.91	95.3	2.00	6.40		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.04	102	2.00	7.16		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.98	99.7	6.00	7.39		
Total BTEx	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16600	16.0	07/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 06/26/2024  
 Reported: 07/03/2024  
 Project Name: OGDEN STATE 4  
 Project Number: MURCHISON  
 Project Location: UL/ P SEC 2 T25S - R26E

Sampling Date: 06/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 5 - 2' (H243836-09)**

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	07/02/2024	ND	1.91	95.4	2.00	5.30		
Toluene*	<0.050	0.050	07/02/2024	ND	1.91	95.3	2.00	6.40		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.04	102	2.00	7.16		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.98	99.7	6.00	7.39		
Total BTEx	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12600	16.0	07/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	15.2	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 06/26/2024  
 Reported: 07/03/2024  
 Project Name: OGDEN STATE 4  
 Project Number: MURCHISON  
 Project Location: UL/ P SEC 2 T25S - R26E

Sampling Date: 06/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 6 - SURF (H243836-10)**

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	07/02/2024	ND	1.91	95.4	2.00	5.30		
Toluene*	<0.050	0.050	07/02/2024	ND	1.91	95.3	2.00	6.40		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.04	102	2.00	7.16		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.98	99.7	6.00	7.39		
Total BTEx	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11400	16.0	07/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 06/26/2024  
 Reported: 07/03/2024  
 Project Name: OGDEN STATE 4  
 Project Number: MURCHISON  
 Project Location: UL/ P SEC 2 T25S - R26E

Sampling Date: 06/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 6 - 1' (H243836-11)**

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	07/02/2024	ND	1.91	95.4	2.00	5.30		
Toluene*	<0.050	0.050	07/02/2024	ND	1.91	95.3	2.00	6.40		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.04	102	2.00	7.16		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.98	99.7	6.00	7.39		
Total BTEX	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10000	16.0	07/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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:**

Hungry Horse Environmental  
 DANIEL DOMINGUEZ  
 P.O. Box 1058  
 Hobbs NM, 88240  
 Fax To: (505) 391-4585

Received: 06/26/2024  
 Reported: 07/03/2024  
 Project Name: OGDEN STATE 4  
 Project Number: MURCHISON  
 Project Location: UL/ P SEC 2 T25S - R26E

Sampling Date: 06/25/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 6 - 2' (H243836-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/02/2024	ND	1.91	95.4	2.00	5.30		
Toluene*	<0.050	0.050	07/02/2024	ND	1.91	95.3	2.00	6.40		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.04	102	2.00	7.16		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.98	99.7	6.00	7.39		
Total BTEx	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7460	16.0	07/02/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	203	101	200	1.95	
DRO >C10-C28*	<10.0	10.0	07/02/2024	ND	168	84.2	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

[illegible]



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

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August 20, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: OGDEN STATE 5A

Enclosed are the results of analyses for samples received by the laboratory on 08/16/24 12:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 0.5' ) (H244989-01)**

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	08/19/2024	ND	1.98	99.0	2.00	2.33	
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46	
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41	
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61	
Total BTEX	<0.300	0.300	08/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	2080	16.0	08/19/2024	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 2' ) (H244989-02)**

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	08/19/2024	ND	1.98	99.0	2.00	2.33		
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46		
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41		
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61		
Total BTEX	<0.300	0.300	08/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	848	16.0	08/19/2024	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 4' ) (H244989-03)**

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	08/19/2024	ND	1.98	99.0	2.00	2.33		
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46		
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41		
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61		
Total BTEX	<0.300	0.300	08/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	1150	16.0	08/19/2024	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2 ( 0.5' ) (H244989-04)**

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	08/19/2024	ND	1.98	99.0	2.00	2.33		
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46		
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41		
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61		
Total BTEX	<0.300	0.300	08/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	656	16.0	08/19/2024	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2 ( 2' ) (H244989-05)**

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	08/19/2024	ND	1.98	99.0	2.00	2.33		
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46		
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41		
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61		
Total BTEX	<0.300	0.300	08/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	336	16.0	08/19/2024	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 73.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.8 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2 ( 4' ) (H244989-06)**

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	08/19/2024	ND	1.98	99.0	2.00	2.33		
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46		
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41		
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61		
Total BTEX	<0.300	0.300	08/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	208	16.0	08/19/2024	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 3 ( 0.5' ) (H244989-07)**

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	08/19/2024	ND	1.98	99.0	2.00	2.33		
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46		
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41		
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61		
Total BTEX	<0.300	0.300	08/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	928	16.0	08/19/2024	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 3 ( 2' ) (H244989-08)**

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	08/19/2024	ND	1.98	99.0	2.00	2.33		
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46		
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41		
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61		
Total BTEX	<0.300	0.300	08/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	08/19/2024	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 3 ( 4' ) (H244989-09)**

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	08/19/2024	ND	1.98	99.0	2.00	2.33		
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46		
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41		
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61		
Total BTEX	<0.300	0.300	08/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	256	16.0	08/19/2024	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 4 ( 0.5' ) (H244989-10)**

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	08/19/2024	ND	1.98	99.0	2.00	2.33		
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46		
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41		
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61		
Total BTEX	<0.300	0.300	08/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	1980	16.0	08/19/2024	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 72.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 4 ( 2' ) (H244989-11)**

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	08/19/2024	ND	1.98	99.0	2.00	2.33		
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46		
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41		
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61		
Total BTEX	<0.300	0.300	08/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	08/19/2024	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 73.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 4 ( 4' ) (H244989-12)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/19/2024	ND	1.98	99.0	2.00	2.33		
Toluene*	<0.050	0.050	08/19/2024	ND	1.90	94.8	2.00	2.46		
Ethylbenzene*	<0.050	0.050	08/19/2024	ND	1.99	99.7	2.00	2.41		
Total Xylenes*	<0.150	0.150	08/19/2024	ND	5.91	98.5	6.00	2.61		
Total BTEX	<0.300	0.300	08/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	08/19/2024	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	08/19/2024	ND	220	110	200	0.445	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	205	103	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 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", is written over a horizontal line.

---

Celey D. Keene, Lab Director/Quality Manager





ANALYSIS REQUEST

+ Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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

August 20, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: OGDEN STATE 4

Enclosed are the results of analyses for samples received by the laboratory on 08/16/24 12:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 0.5' ) (H244986-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466	
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16	
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31	
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37	
Total BTX	<0.300	0.300	08/16/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	08/19/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 2' ) (H244986-02)**

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	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	08/19/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 81.8 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 4' ) (H244986-03)**

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	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	208	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2 ( 0.5' ) (H244986-04)**

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	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	64.0	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2 ( 2' ) (H244986-05)**

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	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	96.0	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2 ( 4' ) (H244986-06)**

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	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 3 ( 0.5' ) (H244986-07)**

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	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	48.0	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 3 ( 2' ) (H244986-08)**

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	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	16.0	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 3 ( 4' ) (H244986-09)**

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	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	48.0	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 4 ( 0.5' ) (H244986-10)**

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	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	3320	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 4 ( 2' ) (H244986-11)**

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	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	2800	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 4 ( 4' ) (H244986-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	2640	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 66.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 4A ( 0.5' ) (H244986-13)**

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	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	1840	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 08/16/2024  
 Reported: 08/20/2024  
 Project Name: OGDEN STATE 4  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO., NM

Sampling Date: 08/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: H - 4A ( 2' ) (H244986-14)**

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	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	2040	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 4A ( 4' ) (H244986-15)**

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	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	1880	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 01 ( 0.5' ) (H244986-16)**

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	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	8800	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	1890	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	636	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 01 ( 2' ) (H244986-17)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	384	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 01 ( 4' ) (H244986-18)**

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	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	112	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 02 ( 0.5' ) (H244986-19)**

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	08/16/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/16/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	2200	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 02 ( 2' ) (H244986-20)**

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	08/17/2024	ND	2.05	103	2.00	0.466		
Toluene*	<0.050	0.050	08/17/2024	ND	1.97	98.3	2.00	1.16		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.05	103	2.00	1.31		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	6.10	102	6.00	1.37		
Total BTEX	<0.300	0.300	08/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 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	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	240	120	200	2.02	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	218	109	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 02 ( 4' ) (H244986-21)**

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	08/16/2024	ND	2.38	119	2.00	1.96		
Toluene*	<0.050	0.050	08/16/2024	ND	2.32	116	2.00	2.37		
Ethylbenzene*	<0.050	0.050	08/16/2024	ND	2.30	115	2.00	2.38		
Total Xylenes*	<0.150	0.150	08/16/2024	ND	7.02	117	6.00	2.95		
Total BTEX	<0.300	0.300	08/16/2024	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	32.0	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 03 ( 0.5' ) (H244986-22)**

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	08/17/2024	ND	2.38	119	2.00	1.96		
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95		
Total BTEX	<0.300	0.300	08/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	1150	16.0	08/19/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 08/16/2024  
 Reported: 08/20/2024  
 Project Name: OGDEN STATE 4  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO., NM

Sampling Date: 08/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 03 ( 2' ) (H244986-23)**

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	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/19/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 03 ( 4' ) (H244986-24)**

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	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/19/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 08/16/2024  
 Reported: 08/20/2024  
 Project Name: OGDEN STATE 4  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO., NM

Sampling Date: 08/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 04 ( 0.5' ) (H244986-25)**

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	08/17/2024	ND	2.38	119	2.00	1.96		
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	GC-NC	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	GC-NC	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	GC-NC	
Total BTEX	<0.300	0.300	08/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	22800	16.0	08/19/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	23.3	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 04 ( 2' ) (H244986-26)**

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	08/17/2024	ND	2.38	119	2.00	1.96		
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95		
Total BTEX	<0.300	0.300	08/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	08/19/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 04 ( 4' ) (H244986-27)**

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	08/17/2024	ND	2.38	119	2.00	1.96		
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95		
Total BTEX	<0.300	0.300	08/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	08/19/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 04 ( 5' ) (H244986-28)**

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	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	08/19/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 08/16/2024  
 Reported: 08/20/2024  
 Project Name: OGDEN STATE 4  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO., NM

Sampling Date: 08/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 04 ( 7' ) (H244986-29)**

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	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	08/19/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 08/16/2024  
 Reported: 08/20/2024  
 Project Name: OGDEN STATE 4  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO., NM

Sampling Date: 08/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 05 ( 0.5' ) (H244986-30)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	GC-NC
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16800	16.0	08/19/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	67.5	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 ( 2' ) (H244986-31)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	GC-NC
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	GC-NC
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 192 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	08/19/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	90.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	1780	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	144	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 ( 4' ) (H244986-32)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96		
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95		
Total BTEX	<0.300	0.300	08/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10800	16.0	08/19/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 ( 6' ) (H244986-33)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96		
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95		
Total BTEX	<0.300	0.300	08/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12000	16.0	08/19/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88		
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61		
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND						

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 ( 8' ) (H244986-34)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96		
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95		
Total BTEX	<0.300	0.300	08/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8660	16.0	08/19/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 08/16/2024  
 Reported: 08/20/2024  
 Project Name: OGDEN STATE 4  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO., NM

Sampling Date: 08/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 05 ( 10' ) (H244986-35)**

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	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5330	16.0	08/19/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 ( 12' ) (H244986-36)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96		
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95		
Total BTEX	<0.300	0.300	08/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7920	16.0	08/19/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 08/16/2024  
 Reported: 08/20/2024  
 Project Name: OGDEN STATE 4  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO., NM

Sampling Date: 08/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 05 ( 14' ) (H244986-37)**

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	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7920	16.0	08/19/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 ( 16' ) (H244986-38)**

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	08/17/2024	ND	2.38	119	2.00	1.96		
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95		
Total BTEX	<0.300	0.300	08/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7920	16.0	08/19/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 08/16/2024  
 Reported: 08/20/2024  
 Project Name: OGDEN STATE 4  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO., NM

Sampling Date: 08/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 05 ( 18' ) (H244986-39)**

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	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	08/19/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 08/16/2024  
 Reported: 08/20/2024  
 Project Name: OGDEN STATE 4  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO., NM

Sampling Date: 08/14/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 06 ( 0.5' ) (H244986-40)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2024	ND	2.38	119	2.00	1.96	
Toluene*	<0.050	0.050	08/17/2024	ND	2.32	116	2.00	2.37	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.30	115	2.00	2.38	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.02	117	6.00	2.95	
Total BTEX	<0.300	0.300	08/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	08/19/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/17/2024	ND	209	104	200	9.88	
DRO >C10-C28*	<10.0	10.0	08/17/2024	ND	202	101	200	9.61	
EXT DRO >C28-C36	<10.0	10.0	08/17/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 06 ( 2' ) (H244986-41)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2024	ND	2.28	114	2.00	2.05		
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720		
Total BTEX	<0.300	0.300	08/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	08/19/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 06 ( 4' ) (H244986-42)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2024	ND	2.28	114	2.00	2.05		
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720		
Total BTEX	<0.300	0.300	08/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	08/19/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 06 ( 6' ) (H244986-43)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2024	ND	2.28	114	2.00	2.05		
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720		
Total BTEX	<0.300	0.300	08/17/2024	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	112	16.0	08/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 07 ( 0.5' ) (H244986-44)**

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	08/17/2024	ND	2.28	114	2.00	2.05	
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624	
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836	
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720	
Total BTEX	<0.300	0.300	08/17/2024	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	9400	16.0	08/19/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	24.7	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 07 ( 2' ) (H244986-45)**

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	08/17/2024	ND	2.28	114	2.00	2.05		
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720		
Total BTEX	<0.300	0.300	08/17/2024	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	1230	16.0	08/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 07 ( 4' ) (H244986-46)**

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	08/17/2024	ND	2.28	114	2.00	2.05		
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720		
Total BTEX	<0.300	0.300	08/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	624	16.0	08/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 07 ( 6' ) (H244986-47)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2024	ND	2.28	114	2.00	2.05		
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720		
Total BTEX	<0.300	0.300	08/17/2024	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	736	16.0	08/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/16/2024	Sampling Date:	08/14/2024
Reported:	08/20/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 07 ( 8' ) (H244986-48)**

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	08/17/2024	ND	2.28	114	2.00	2.05		
Toluene*	<0.050	0.050	08/17/2024	ND	2.33	117	2.00	0.624		
Ethylbenzene*	<0.050	0.050	08/17/2024	ND	2.40	120	2.00	0.836		
Total Xylenes*	<0.150	0.150	08/17/2024	ND	7.23	120	6.00	0.720		
Total BTEX	<0.300	0.300	08/17/2024	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	608	16.0	08/19/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2024	ND	242	121	200	1.93	
DRO >C10-C28*	<10.0	10.0	08/19/2024	ND	217	108	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	08/19/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 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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### Notes and Definitions

S-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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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

<b>Company Name:</b> McNabb Partners <b>Project Manager:</b> Dmitry Nikanorov <b>Address:</b> 5014 W Carlsbad Hwy <b>City:</b> Hobbs <b>Phone #:</b> 917-497-6890 <b>Project #:</b> <b>Project Name:</b> Ogden State 4 <b>Project Location:</b> Eddy Co. NM <b>Sampler Name:</b> Dmitry Nikanorov, Andrew Parker				<b>P.O. #:</b> <b>Company:</b> Murchison Oil & Gas <b>Attn:</b> Greg Boans <b>Address:</b> 5325 Sierra Vista Dr. <b>City:</b> Carlsbad <b>State:</b> NM <b>Zip:</b> 88220 <b>Phone #:</b> 575-706-0667 <b>Fax #:</b>				<b>ANALYSIS REQUEST</b>													
<b>BILL TO</b>																					
<b>Lab I.D.</b>  <b>Sample I.D.</b>		(G)RAB OR (C)OMP. <b># CONTAINERS</b> GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		<b>MATRIX</b>  <b>PRESERV</b>		<b>SAMPLING</b>		<b>TPH</b>  Chloride  BTEX													
FOR LAB USE ONLY																					
<b>Lab I.D.</b>  <b>Sample I.D.</b>		H-1		(0.5)		G 1		X		8/14/24		10-00		X		X					
		H-1		(2)		G 1		X		8/14/24		10-05		X		X					
		H-1		(4)		G 1		X		8/14/24		10-10		X		X					
		H-2		(0.5)		G 1		X		8/14/24		10-15		X		X					
		H-2		(2)		G 1		X		8/14/24		10-20		X		X					
		H-2		(4)		G 1		X		8/14/24		10-25		X		X					
		H-3		(0.5)		G 1		X		8/14/24		10-30		X		X					
		H-3		(2)		G 1		X		8/14/24		10-35		X		X					
		H-3		(4)		G 1		X		8/14/24		10-40		X		X					
		H-4		(0.5)		G 1		X		8/14/24		10-45		X		X					

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<b>Relinquished By:</b> [Signature] <b>Date:</b> 8/14/24 <b>Time:</b> 1:05 <b>Received By:</b> [Signature] <b>Date:</b> 8/14/24 <b>Time:</b> 1:05 <b>Received By:</b> [Signature]		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ <b>All Results are emailed. Please provide Email address:</b> dimity@mcnabbpartners.com, andrew@mcnabbpartners.com, laura@mcnabbpartners.com	
<b>Relinquished By:</b> [Signature] <b>Date:</b> 8/14/24 <b>Time:</b> 1:05 <b>Received By:</b> [Signature]		<b>REMARKS:</b>  Turnaround Time: 48 hours Thermometer ID #140 Correction Factor -0.5°C <b>Standard</b> <input checked="" type="checkbox"/> <b>RUSH</b> <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> <b>Sample Condition</b> Cool Intact <input type="checkbox"/> <b>Observed Temp. °C</b> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Name: McNabb Partners		P.O. #:		BILL TO		ANALYSIS REQUEST					
Project Manager: Dmity Nikanov		Company: Murchison Oil & Gas									
Address: 5014 W Carlsbad Hwy		Attn: Greg Boars									
City: Hobbs		Address: 5325 Sierra Vista Dr.									
State: NM		City: Carlsbad									
Zip: 88240		State: NM									
Phone #: 917-497-6890		Fax #: 575-706-0667									
Project #: 917-497-6890		Project Owner: Murchison Oil&Gas									
Project Name: Ogden State 4		City: Carlsbad									
Project Location: Eddy Co. NM		State: NM									
Sample Name: Dmity Nikanov, Andrew Parker		Phone #: 575-706-0667									
FOR LAB USE ONLY		Fax #:									
Lab I.D.		Sample I.D.									
H24984											
H-4		(2)		G		1					
H-4		(4)		G		1					
H-4A		(0.5)		G		1					
H-4A		(2)		G		1					
H-4A		(4)		G		1					
CS-01		(0.5)		G		1					
CS-01		(2)		G		1					
CS-01		(4)		G		1					
CS-02		(0.5)		G		1					
CS-02		(2)		G		1					
CS-02		(4)		G		1					
DATE		TIME		TPH		Chloride		BTX			
8/14/24		11:35		X		X		X			
8/14/24		11:40		X		X		X			
8/14/24		11:45		X		X		X			
8/14/24		11:50		X		X		X			
8/14/24		11:55		X		X		X			
8/14/24		12:00		X		X		X			
8/14/24		12:05		X		X		X			
8/14/24		12:10		X		X		X			
8/14/24		12:15		X		X		X			
8/14/24		12:20		X		X		X			
Relinquished By: [Signature]		Date: 8/14/24		Time: 1:05		Received By: [Signature]		Date: 8/14/24		Time: 1:05	
Relinquished By: [Signature]		Date: 8/14/24		Time: 1:05		Received By: [Signature]		Date: 8/14/24		Time: 1:05	
Delivered By: (Circle One)		Observed Temp. °C		Corrected Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time: 48 hours	
Sampler - UPS - Bus - Other:		1.0		0.4		Cool Intact		AP		Standard	
						Cool Intact				Bacteria (only) Sample Condition	
						Cool Intact				Cool Intact	
						Cool Intact				Observed Temp. °C	
						Cool Intact				Corrected Temp. °C	

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





### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ANALYSIS REQUEST

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McNabb Partners

[illegible]



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August 30, 2024

ANDREW PARKER  
MC NABB SERVICES  
P. O. BOX 5753  
HOBBS, NM 88240

RE: OGDEN STATE 5A

Enclosed are the results of analyses for samples received by the laboratory on 08/26/24 16:33.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

MC NABB SERVICES  
 ANDREW PARKER  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 01 0.5' (H245183-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2024	ND	1.86	92.9	2.00	3.37	
Toluene*	<0.050	0.050	08/28/2024	ND	1.80	89.8	2.00	4.55	
Ethylbenzene*	0.205	0.050	08/28/2024	ND	1.85	92.6	2.00	4.69	
Total Xylenes*	1.20	0.150	08/28/2024	ND	5.52	92.0	6.00	4.78	GC-NC1
Total BTX	1.41	0.300	08/28/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 130 % 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	528	16.0	08/28/2024	ND	464	116	400	10.9	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	96.6	10.0	08/27/2024	ND	207	104	200	0.190	
DRO >C10-C28*	1650	10.0	08/27/2024	ND	200	99.8	200	2.08	
EXT DRO >C28-C36	396	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 ANDREW PARKER  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 01 1' (H245183-02)**

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	08/27/2024	ND	1.86	92.9	2.00	3.37		
Toluene*	<0.050	0.050	08/27/2024	ND	1.80	89.8	2.00	4.55		
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.85	92.6	2.00	4.69		
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.52	92.0	6.00	4.78		
Total BTEX	<0.300	0.300	08/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	08/28/2024	ND	464	116	400	10.9		

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	08/27/2024	ND	207	104	200	0.190	
DRO >C10-C28*	49.7	10.0	08/27/2024	ND	200	99.8	200	2.08	
EXT DRO >C28-C36	12.4	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 80.2 % 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:**

MC NABB SERVICES  
 ANDREW PARKER  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 01 1.5' (H245183-03)**

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	08/27/2024	ND	1.86	92.9	2.00	3.37		
Toluene*	<0.050	0.050	08/27/2024	ND	1.80	89.8	2.00	4.55		
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.85	92.6	2.00	4.69		
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.52	92.0	6.00	4.78		
Total BTEX	<0.300	0.300	08/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	08/28/2024	ND	464	116	400	10.9		

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	08/27/2024	ND	207	104	200	0.190	
DRO >C10-C28*	27.9	10.0	08/27/2024	ND	200	99.8	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 80.0 % 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:**

MC NABB SERVICES  
 ANDREW PARKER  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 02 0.5' (H245183-04)**

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	08/27/2024	ND	1.86	92.9	2.00	3.37		
Toluene*	<0.050	0.050	08/27/2024	ND	1.80	89.8	2.00	4.55		
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.85	92.6	2.00	4.69		
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.52	92.0	6.00	4.78		
Total BTEX	<0.300	0.300	08/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	112	16.0	08/28/2024	ND	464	116	400	10.9		

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	08/27/2024	ND	207	104	200	0.190	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	200	99.8	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 75.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 ANDREW PARKER  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 02 2' (H245183-05)**

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	08/27/2024	ND	1.86	92.9	2.00	3.37	
Toluene*	<0.050	0.050	08/27/2024	ND	1.80	89.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.85	92.6	2.00	4.69	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.52	92.0	6.00	4.78	
Total BTEX	<0.300	0.300	08/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	528	16.0	08/28/2024	ND	464	116	400	10.9		

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	08/27/2024	ND	207	104	200	0.190	
DRO >C10-C28*	10.0	10.0	08/27/2024	ND	200	99.8	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 ANDREW PARKER  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 03 0.5' (H245183-06)**

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	08/27/2024	ND	1.86	92.9	2.00	3.37		
Toluene*	<0.050	0.050	08/27/2024	ND	1.80	89.8	2.00	4.55		
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.85	92.6	2.00	4.69		
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.52	92.0	6.00	4.78		
Total BTEX	<0.300	0.300	08/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	896	16.0	08/28/2024	ND	464	116	400	10.9		

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	08/27/2024	ND	207	104	200	0.190	
DRO >C10-C28*	54.3	10.0	08/27/2024	ND	200	99.8	200	2.08	
EXT DRO >C28-C36	19.4	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 70.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 ANDREW PARKER  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 03 1' (H245183-07)**

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	08/27/2024	ND	1.86	92.9	2.00	3.37		
Toluene*	<0.050	0.050	08/27/2024	ND	1.80	89.8	2.00	4.55		
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.85	92.6	2.00	4.69		
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.52	92.0	6.00	4.78		
Total BTEX	<0.300	0.300	08/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	672	16.0	08/28/2024	ND	464	116	400	10.9		

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	08/27/2024	ND	207	104	200	0.190	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	200	99.8	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 80.2 % 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:**

MC NABB SERVICES  
 ANDREW PARKER  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 03 1.5' (H245183-08)**

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	08/27/2024	ND	1.86	92.9	2.00	3.37	
Toluene*	<0.050	0.050	08/27/2024	ND	1.80	89.8	2.00	4.55	
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	1.85	92.6	2.00	4.69	
Total Xylenes*	<0.150	0.150	08/27/2024	ND	5.52	92.0	6.00	4.78	
Total BTEX	<0.300	0.300	08/27/2024	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	480	16.0	08/28/2024	ND	464	116	400	10.9	

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	08/27/2024	ND	207	104	200	0.190	
DRO >C10-C28*	13.8	10.0	08/27/2024	ND	200	99.8	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 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:**

MC NABB SERVICES  
 ANDREW PARKER  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 04 0.5' (H245183-09)**

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	08/28/2024	ND	1.86	92.9	2.00	3.37		
Toluene*	<0.050	0.050	08/28/2024	ND	1.80	89.8	2.00	4.55		
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	1.85	92.6	2.00	4.69		
Total Xylenes*	<0.150	0.150	08/28/2024	ND	5.52	92.0	6.00	4.78		
Total BTEX	<0.300	0.300	08/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	08/28/2024	ND	464	116	400	10.9		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.1	10.0	08/27/2024	ND	207	104	200	0.190	
DRO >C10-C28*	444	10.0	08/27/2024	ND	200	99.8	200	2.08	
EXT DRO >C28-C36	121	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 150 % 49.1-148

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

**Analytical Results For:**

MC NABB SERVICES  
 ANDREW PARKER  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 04 1' (H245183-10)**

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	08/28/2024	ND	1.86	92.9	2.00	3.37		
Toluene*	<0.050	0.050	08/28/2024	ND	1.80	89.8	2.00	4.55		
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	1.85	92.6	2.00	4.69		
Total Xylenes*	<0.150	0.150	08/28/2024	ND	5.52	92.0	6.00	4.78		
Total BTEX	<0.300	0.300	08/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	240	16.0	08/28/2024	ND	464	116	400	10.9		

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	08/27/2024	ND	207	104	200	0.466	
DRO >C10-C28*	67.9	10.0	08/27/2024	ND	210	105	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 ANDREW PARKER  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 0.5' (H245183-11)**

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	08/28/2024	ND	1.86	92.9	2.00	3.37	GC-NC1	
Toluene*	<0.050	0.050	08/28/2024	ND	1.80	89.8	2.00	4.55		
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	1.85	92.6	2.00	4.69		
Total Xylenes*	0.289	0.150	08/28/2024	ND	5.52	92.0	6.00	4.78		
Total BTEX	<0.300	0.300	08/28/2024	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	1070	16.0	08/28/2024	ND	464	116	400	10.9		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	21.3	10.0	08/27/2024	ND	207	104	200	0.466	
DRO >C10-C28*	1150	10.0	08/27/2024	ND	210	105	200	2.37	
EXT DRO >C28-C36	279	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 ANDREW PARKER  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 05 2' (H245183-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/27/2024	ND	1.95	97.6	2.00	15.1		
Toluene*	<0.050	0.050	08/27/2024	ND	1.97	98.6	2.00	13.0		
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.08	104	2.00	11.0		
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.45	107	6.00	10.1		
Total BTEX	<0.300	0.300	08/27/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	08/27/2024	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2024	ND	207	104	200	0.466	
DRO >C10-C28*	42.5	10.0	08/27/2024	ND	210	105	200	2.37	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 ANDREW PARKER  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 06 0.5' (H245183-13)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.95	97.6	2.00	15.1	GC-NC
Toluene*	<0.050	0.050	08/27/2024	ND	1.97	98.6	2.00	13.0	GC-NC
Ethylbenzene*	<b>0.957</b>	0.050	08/27/2024	ND	2.08	104	2.00	11.0	GC-NC1
Total Xylenes*	<b>0.596</b>	0.150	08/27/2024	ND	6.45	107	6.00	10.1	GC-NC1
Total BTEX	<b>1.55</b>	0.300	08/27/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 172 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>288</b>	16.0	08/27/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>27.5</b>	10.0	08/27/2024	ND	207	104	200	0.466	
DRO >C10-C28*	<b>377</b>	10.0	08/27/2024	ND	210	105	200	2.37	
EXT DRO >C28-C36	<b>89.0</b>	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

MC NABB SERVICES  
 ANDREW PARKER  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	08/26/2024	Sampling Date:	08/23/2024
Reported:	08/30/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	20160312-MURCHINSON-OGDENSTATE5	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: CS - 06 1' (H245183-14)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2024	ND	1.95	97.6	2.00	15.1	GC-NC
Toluene*	<0.050	0.050	08/27/2024	ND	1.97	98.6	2.00	13.0	GC-NC
Ethylbenzene*	<b>0.632</b>	0.050	08/27/2024	ND	2.08	104	2.00	11.0	GC-NC1
Total Xylenes*	<b>0.394</b>	0.150	08/27/2024	ND	6.45	107	6.00	10.1	GC-NC1
Total BTEX	<b>1.03</b>	0.300	08/27/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 147 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>128</b>	16.0	08/27/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>46.4</b>	10.0	08/27/2024	ND	207	104	200	0.466	
DRO >C10-C28*	<b>977</b>	10.0	08/27/2024	ND	210	105	200	2.37	
EXT DRO >C28-C36	<b>295</b>	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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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

<b>Company Name:</b> McNabb Partners <b>Project Manager:</b> Andrew Parker <b>Address:</b> On-File <b>City:</b> _____ <b>State:</b> _____ <b>Zip:</b> _____ <b>Phone #:</b> _____ <b>Fax #:</b> _____ <b>Project #:</b> _____ <b>Project Owner:</b> _____ <b>Project Name:</b> 20160512-murkison-ogdenstate5 <b>Project Location:</b> Ogden State 54 <b>Sampler Name:</b> Christopher Turner		<b>BILL TO</b> <b>P.O. #:</b> 20160512-murkison-ogdenstate5 <b>Company:</b> Murkison D & B <b>Address:</b> Attn: andrew@murkisonpartners.com <b>City:</b> _____ <b>State:</b> _____ <b>Zip:</b> _____ <b>Phone #:</b> _____ <b>Fax #:</b> _____	
<b>FOR LAB USE ONLY</b> <b>Lab I.D.</b> _____ <b>Sample I.D.</b> _____ <b>Matrix:</b> <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input checked="" type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER: _____ <b>Preserv:</b> <input checked="" type="checkbox"/> ACID/BASE: _____ <input type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER: _____ <b>DATE</b> 08/23 <b>TIME</b> 9:28 <b>SAMPLING</b>		<b>ANALYSIS REQUEST</b> <input checked="" type="checkbox"/> Chloride <input checked="" type="checkbox"/> TPH (GRO+DRO+MRO) <input checked="" type="checkbox"/> BTEX (Benzene)	
<b>PLEASE NOTE:</b> Liability and Damages: Cardinal's liability and clients' activities remain for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors, arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based on any of the above stated reasons or otherwise.		<b>Relinquished By:</b> _____ <b>Received By:</b> _____ <b>Date:</b> 8/24/24 <b>Time:</b> 10:33 <b>Date:</b> _____ <b>Time:</b> _____ <b>Relinquished By:</b> _____ <b>Received By:</b> _____	
<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other: _____ <b>Observed Temp. °C:</b> 1.8°C <b>Corrected Temp. °C:</b> 1.7°C <b>Sample Condition:</b> <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Checked By:</b> (Initials) _____		<b>Turnaround Time:</b> _____ <b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/> <b>Thermometer ID #140</b> <b>Correction Factor: -0.6°C</b> <b>Bacteria (only) Sample Condition:</b> <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Observed Temp. °C:</b> _____ <b>Corrected Temp. °C:</b> _____	
<b>REMARKS:</b> _____ <b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> _____ <b>All Results are emailed. Please provide Email address:</b> _____		<b>Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com</b>	





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: McLab Partners

Project Manager: Andrew Parker

Address: On-File

City: State: Zip:

Phone #: Fax #:

Project #:

Project Name: 20160312-Murchison-cyden States

Project Location: Ogden State SA

Sampler Name: Christopher Turner

P.O. #: 20160312-murchison-cyden States

Company: Murchison Oil & Gas

Attn: Murchison@mc-lab.com

Address:

City: State: Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

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CS-05  
CS-06  
CS-06

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WASTEWATER  
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ACID/BASE:  
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10/23  
11:30

11:33  
12:15

12:25

Chloride

TPH (GRO+DRO+MAO)

BTEX (Benzene)

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Relinquished By:

Date: 8/24/21

Time: 10:33

Received By:

Date: 8/24/21

Time: 10:33

Received By:

Date: 8/24/21

Time: 10:33

Received By:

Relinquished By:

Date: 8/24/21

Time: 10:33

Received By:

Date: 8/24/21

Time: 10:33

Received By:

Date: 8/24/21

Time: 10:33

Received By:

Delivered By: (Circle One)

Observed Temp. °C

Corrected Temp. °C

Sample Condition

CHECKED BY: (Initials)

Turnaround Time:

Standard

Bacteria (only)

Sample Condition

Observed Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Sample Condition

CHECKED BY: (Initials)

Turnaround Time:

Standard

Bacteria (only)

Sample Condition

Observed Temp. °C

FORM 0001-3-97 07/11/23

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



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

September 24, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: OGDEN STATE 5A

Enclosed are the results of analyses for samples received by the laboratory on 09/20/24 14:58.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 6' ) (H245735-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTX	<0.300	0.300	09/23/2024	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	1060	16.0	09/23/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	212	106	200	0.972	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	218	109	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 8' ) (H245735-02)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2024	ND	2.05	102	2.00	0.0249		
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506		
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609		
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567		
Total BTEX	<0.300	0.300	09/23/2024	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	560	16.0	09/23/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	212	106	200	0.972	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	218	109	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1 ( 10' ) (H245735-03)**

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	09/23/2024	ND	2.05	102	2.00	0.0249		
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506		
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609		
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567		
Total BTEX	<0.300	0.300	09/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	1060	16.0	09/23/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	212	106	200	0.972		
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	218	109	200	1.47		
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2.1 ( 0.5' ) (H245735-04)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	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	1960	16.0	09/23/2024	ND	416	104	400	3.77	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	212	106	200	0.972	
DRO >C10-C28*	66.8	10.0	09/23/2024	ND	218	109	200	1.47	
EXT DRO >C28-C36	148	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 09/20/2024  
 Reported: 09/24/2024  
 Project Name: OGDEN STATE 5A  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO., NM

Sampling Date: 09/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 2.1 ( 2' ) (H245735-05)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	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	224	16.0	09/23/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 119 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2.2 ( 0.5' ) (H245735-06)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTX	<0.300	0.300	09/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	512	16.0	09/23/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27		
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 2.2 ( 2' ) (H245735-07)**

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	09/23/2024	ND	2.05	102	2.00	0.0249		
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506		
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609		
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567		
Total BTEX	<0.300	0.300	09/23/2024	ND						

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

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: CT							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	09/23/2024	ND	432	108	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27		
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 09/20/2024  
 Reported: 09/24/2024  
 Project Name: OGDEN STATE 5A  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO., NM

Sampling Date: 09/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 2.2 ( 4' ) (H245735-08)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1.1 ( 0.5' ) (H245735-09)**

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	09/23/2024	ND	2.05	102	2.00	0.0249		
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506		
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609		
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567		
Total BTEX	<0.300	0.300	09/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/23/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27		
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 1.1 ( 2' ) (H245735-10)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 09/20/2024  
 Reported: 09/24/2024  
 Project Name: OGDEN STATE 5A  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO., NM

Sampling Date: 09/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 1.1 ( 4' ) (H245735-11)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 5 ( 0.5' ) (H245735-12)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 5 ( 2' ) (H245735-13)**

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	09/23/2024	ND	2.05	102	2.00	0.0249		
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506		
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609		
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567		
Total BTEX	<0.300	0.300	09/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/23/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27		
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 5 ( 4' ) (H245735-14)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/23/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 6 ( 0.5' ) (H245735-15)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/23/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27		
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND						

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 6 ( 2' ) (H245735-16)**

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	09/23/2024	ND	2.05	102	2.00	0.0249		
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506		
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609		
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567		
Total BTEX	<0.300	0.300	09/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/23/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 09/20/2024  
 Reported: 09/24/2024  
 Project Name: OGDEN STATE 5A  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO., NM

Sampling Date: 09/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 6 ( 4' ) (H245735-17)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 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:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 7 ( 0.5' ) (H245735-18)**

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	09/23/2024	ND	2.05	102	2.00	0.0249		
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506		
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609		
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567		
Total BTEX	<0.300	0.300	09/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/23/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27		
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND						

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 7 ( 2' ) (H245735-19)**

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	09/23/2024	ND	2.05	102	2.00	0.0249		
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506		
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609		
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567		
Total BTEX	<0.300	0.300	09/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/23/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27		
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND						

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received: 09/20/2024  
 Reported: 09/24/2024  
 Project Name: OGDEN STATE 5A  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO., NM

Sampling Date: 09/19/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: H - 7 ( 4' ) (H245735-20)**

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	09/23/2024	ND	2.05	102	2.00	0.0249	
Toluene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.506	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.17	109	2.00	0.609	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.66	111	6.00	0.567	
Total BTEX	<0.300	0.300	09/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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

**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 8 ( 0.5' ) (H245735-21)**

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	09/23/2024	ND	2.19	110	2.00	2.41	
Toluene*	<0.050	0.050	09/23/2024	ND	2.12	106	2.00	0.238	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.16	108	2.00	1.09	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.49	108	6.00	1.51	
Total BTEX	<0.300	0.300	09/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 8 ( 2' ) (H245735-22)**

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	09/23/2024	ND	2.19	110	2.00	2.41	
Toluene*	<0.050	0.050	09/23/2024	ND	2.12	106	2.00	0.238	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.16	108	2.00	1.09	
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.49	108	6.00	1.51	
Total BTEX	<0.300	0.300	09/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/23/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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**Analytical Results For:**

MC NABB SERVICES  
 DIMITRY NIKANOROV  
 P. O. BOX 5753  
 HOBBS NM, 88240  
 Fax To: (575) 391-8484

Received:	09/20/2024	Sampling Date:	09/19/2024
Reported:	09/24/2024	Sampling Type:	Soil
Project Name:	OGDEN STATE 5A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO., NM		

**Sample ID: H - 8 ( 4' ) (H245735-23)**

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	09/23/2024	ND	2.19	110	2.00	2.41		
Toluene*	<0.050	0.050	09/23/2024	ND	2.12	106	2.00	0.238		
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.16	108	2.00	1.09		
Total Xylenes*	<0.150	0.150	09/23/2024	ND	6.49	108	6.00	1.51		
Total BTEX	<0.300	0.300	09/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/23/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/23/2024	ND	210	105	200	2.27		
DRO >C10-C28*	<10.0	10.0	09/23/2024	ND	211	105	200	4.05		
EXT DRO >C28-C36	<10.0	10.0	09/23/2024	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "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

<b>Company Name:</b> McNabb Partners		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
<b>Project Manager:</b> Dmitry Nikanorov		<b>P.O. #:</b>			
<b>Address:</b> 5014 W Carlsbad Hwy		<b>Company:</b> Murchison Oil & Gas			
<b>City:</b> Hobbs		<b>Attn:</b> Greg Boans			
<b>State:</b> NM <b>Zip:</b> 88240		<b>Address:</b>			
<b>Phone #:</b> 917-497-6890 <b>Fax #:</b>		<b>City:</b>			
<b>Project #:</b>		<b>State:</b>			
<b>Project Name:</b> Ogden State 5A		<b>Zip:</b>			
<b>Project Location:</b> Eddy Co. NM		<b>Phone #:</b>			
<b>Sampler Name:</b> Dmitry Nikanorov		<b>Fax #:</b>			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH	Chloride	BTEX						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :											
1245735	H-1	G	1	X						9/19/24	9:00	X	X	X						
	H-1	G	1	X						9/19/24	9:05	X	X	X						
	H-1	G	1	X						9/19/24	9:10	X	X	X						
	H-2.1	G	1	X						9/19/24	9:15	X	X	X						
	H-2.1	G	1	X						9/19/24	9:20	X	X	X						
	H-2.2	G	1	X						9/19/24	9:25	X	X	X						
	H-2.2	G	1	X						9/19/24	9:30	X	X	X						
	H-2.2	G	1	X						9/19/24	9:35	X	X	X						
	H-1.1	G	1	X						9/19/24	9:40	X	X	X						
	H-1.1	G	1	X						9/19/24	9:45	X	X	X						

<b>Relinquished By:</b>	<b>Date:</b> 9:30:34	<b>Received By:</b>	<b>Time:</b> 1458	<b>Remarks:</b>
All Results are emailed. Please provide Email address.				
<b>Turnaround Time:</b> 48 hrs <b>Standard</b> <input checked="" type="checkbox"/> <b>RUSH</b> <input type="checkbox"/>				
<b>Thermometer ID #140</b> <b>Correction Factor -0.5°C</b>				
<b>Bacteria (only) Sample Condition</b>				
<b>Cool Intact</b> <input type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>				
<b>Observed Temp. °C</b>				
<b>Corrected Temp. °C</b>				

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





ANALYSIS REQUEST

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**BILL TO**

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**District II**  
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**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS  
  
Action 387344

QUESTIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID:
	15363
	Action Number:
	387344
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2415825281
Incident Name	NAPP2415825281 OGDEN STATE #005A @ 30-015-37264
Incident Type	Other
Incident Status	Remediation Plan Received
Incident Well	[30-015-37264] OGDEN STATE #005A

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Ogden State #005A
Date Release Discovered	03/12/2016
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Normal Operations   Unknown   Crude Oil   Released: 0 BBL (Unknown Released Amount)   Recovered: 0 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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)	C-141 requested by OCD for area of impact identified in Google Earth aerial photo. Date of photo used in lieu of unknown release date. Environmental consultant obtained to investigate indicated area of approximately 900 sq. ft. located inside lined tank battery containment. Stained caliche being removed and disposed of at OCD approved facility. Preparing for liner inspection.

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

QUESTIONS, Page 2

Action 387344

**QUESTIONS (continued)**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID:
	15363
	Action Number:
	387344
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	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

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: Cindy Cottrell Title: Regulatory Coordinator Email: ccottrell@jdmii.com Date: 09/26/2024
--	---

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**District IV**

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

QUESTIONS, Page 3

Action 387344

**QUESTIONS (continued)**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID:
	15363
	Action Number:
	387344
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	Attached Document
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (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	Between 1 and 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	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to 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)	16000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	2142.6
GRO+DRO	(EPA SW-846 Method 8015M)	1746.6
BTEX	(EPA SW-846 Method 8021B or 8260B)	1.6
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	10/26/2024
On what date will (or did) the final sampling or liner inspection occur	11/26/2024
On what date will (or was) the remediation complete(d)	12/26/2024
What is the estimated surface area (in square feet) that will be reclaimed	7385
What is the estimated volume (in cubic yards) that will be reclaimed	580
What is the estimated surface area (in square feet) that will be remediated	7385
What is the estimated volume (in cubic yards) that will be remediated	580

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

QUESTIONS, Page 4

Action 387344

**QUESTIONS (continued)**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID:	15363
	Action Number:	387344
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS****Remediation Plan (continued)**

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

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	TX
What is the name of the out-of-state facility	R360 Red Bluff Facility, Orla
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> 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.

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 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: Cindy Cottrell Title: Regulatory Coordinator Email: ccottrell@jdmii.com Date: 09/30/2024
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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.

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

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

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Action 387344

QUESTIONS (continued)

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 387344
	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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**Santa Fe, NM 87505**

QUESTIONS, Page 6  
  
Action 387344

**QUESTIONS (continued)**

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID:
	15363
	Action Number:
	387344
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	384253
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/19/2024
What was the (estimated) number of samples that were to be gathered	7
What was the sampling surface area in square feet	1400

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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CONDITIONS

Action 387344

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID:
	15363
	Action Number:
	387344
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan conditionally approved.	10/7/2024
bhall	Excavation closure/final samples must meet the most stringent closure criteria (600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene). The horizontal and vertical extents must be extended past the proposed remediation extents (horizontally and vertically) until the most stringent closure criteria are met.	10/7/2024
bhall	OCD assumes that H-3 (0.5') (H244989-10), H-3 (2') (H244989-11), and H-3 (4') (H244989-12) are mislabeled on the map and should read "H-4 (0.5') (H244989-10), H-4 (2') (H244989-11), and H-4 (4') (H244989-12)". If this is incorrect and H-4 (0.5') (H244989-10), H-4 (2') (H244989-11), and H-4 (4') (H244989-12) were not included on the map, the contamination at H-4 (0.5') (H244989-10) must be addressed during remediation activities.	10/7/2024
bhall	Be advised that OCD will not approved a "closure/deferral report" as specified in the report. A remediation closure request will not be approved if any contamination is left in place. A deferral will not be approved if the contamination is not fully delineated. Please review the Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at <a href="https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/">https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/</a> or <a href="https://www.emnrd.nm.gov/ocd/ocd-forms/">https://www.emnrd.nm.gov/ocd/ocd-forms/</a> .	10/7/2024
bhall	Base and side wall confirmation samples must collected as five (5) point composite samples representative an area not larger than 200 square feet.	10/7/2024
bhall	Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC must be completed prior to the collection of confirmation/final sampling.	10/7/2024
bhall	Additional liner removal may be warranted if the extent of the contamination under the liner cannot be visualized/delineated.	10/7/2024
bhall	Include waste manifests in the next report.	10/7/2024
bhall	Submit a complete and accurate report through the OCD Permitting website by 12/7/2024.	10/7/2024