



McNabb Partners, LLC  
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October 22, 2024

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

RE: Deferral Request  
Incident ID: nAPP2415757665  
Carbon Valley 26 Fed #001H  
Project ID: 20110610-murchison-carbonValley26\_1H

NMOCD:

McNabb Partners submits this deferral request on behalf of 3R Operating, LLC. This document describes site assessment, soil sample analysis and deferral request for Carbon Valley 26 Fed #001H (Site)

On June 05, 2024; NMOCD notified the operator at the time, Murchison Oil and Gas, to submit a Notification of Release (NOR) for the subject legacy release first identified on a June 10, 2011, Google Earth aerial image. The cause of release is unknown. Prior to all site assessment activities, all impacted gravel was hand-shoveled and hauled off to the approved disposal facility. The release consisted of 5.7 barrels (bbls) of crude oil. The attached volume calculation is based on actual gravel volume removed and hauled to R360 for proper disposal.

## 1. Characterization

The following sections address items as described in 19.15.29.11.A, paragraphs 1- 4. Please refer to the characterization table below for additional setback criteria and Plats 2-9 for verification.

### 1.1. Site Map

The horizontal extent of the release was determined by the extent of hydrocarbon impacted gravel removed within the tank battery containment. Plate 1 shows the release extent relative to Carbon Valley 26 Federal Com #001H site pad. The suspected source of the release is located at 32.891698, -104.242212 (Lat, Long; NAD83).

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| Site Characterization   |                                       |
|---|---------------------------------------|
| What is the shallowest depth to groundwater (ft bgs) <b>Plate 2</b>   | <50 ft bgs (Unknown)                  |
| What measure was used to determine this?  | N/A                                   |
| 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>   | 2,100 ft E (Wetland)                  |
| • Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark). <b>Plate 4</b>  | 2,000 ft S (Lake/pond)                |
| • An occupied permanent residence, school, hospital, institution or church. <b>Plate 5</b>  | >0.5 mile                             |
| • A spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes. <b>Plate 3</b> | 4,400 ft SE (Livestock watering well) |
| • Any other fresh water well or spring. <b>Plate 3</b>  | 4,400 ft SE (Livestock watering well) |
| • Incorporated municipal boundaries or a defined municipal fresh water well field. <b>Plate 3</b>   | >0.5 mile                             |
| • A wetland. <b>Plate 6</b>   | 2,100 ft E                            |
| • A subsurface mine. <b>Plate 7</b>   | >0.5 mile                             |
| • A (non-karst) unstable area.  | Within High Karst                     |
| • 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>   | 1,800 ft S                            |
| • Did the release impact areas not on an exploration, development, production, or storage site?   | No                                    |



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

Based on a review of the USGS and NMOSE groundwater databases, there are no known groundwater sources within ½-mile of the Site. The nearest identified boring RA-12455 POD1 is located approximately 4,400 feet southeast of the release extent and was drilled in 2016 to 200 ft below ground surface. Groundwater was first encountered at 55 feet below ground surface. The well is used for livestock watering purposes. The boring is identified on Plate 2 according to their OSE File #. The driller log is located in Appendix B. The boring has been plugged.

## **1.3. Wellhead Protection Area**

Plate 3 shows that the release extent is:

- Not within incorporated municipal boundaries or within a defined municipal fresh water well field.
- Not within ½-mile of 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 release extent is:

- Within ½ mile of a significant water course (lake/pond).
- 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).

Plate 6 shows that the release extent is:

- Within a ½ mile of a significant water course (freshwater emergent wetland).
- Not within 300 feet of a continuously flowing watercourse or any other significant watercourse.

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

The USDA Natural Resources Conservation Service (NRCS) soil survey<sup>1</sup> describes the upper 5-feet of lithology as Gypsum land-Cottonwood complex:

- Gypsum land-Cottonwood complex (100.0% of area)
  - Slope: 0 to 3 percent
  - Typical profile

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



- ✓ H1 - 0 to 8 inches: loam
- ✓ H2 - 8 to 60 inches: bedrock

The lithology as described by the NRCS is consistent with professional observations during hand auger borehole activities during characterization sampling.

### 1.6. Initial Liner Inspection and Repairs

Prior to liner inspection, approximately 32 cubic yards of hydrocarbon impacted gravel was removed off-site for proper disposal. The gravel was removed by hand shoveling and broom sweeping.

On June 24<sup>th</sup>, 2024, McNabb Partners were on site to perform an initial liner inspection. Notifications of sampling and liner inspections are located in Appendix A. During the initial liner inspection, one (1) significant breach and several minorly stressed areas of the were identified within the lined containment was identified within the lined tank battery. Following the initial sampling event and liner inspection, the liner has been patched and repaired accordingly. Figures 1 through 4 show the condition of the liner during initial inspection and Figure 5 and 6 shows soil sample from the hole in the liner.

### 1.7. Closure Criteria

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

| High Karst Potential   | Chloride<br>(mg/kg) | GRO+DRO<br>(mg/kg) | TPH Ext.<br>(mg/kg) | Benzene<br>(mg/kg) | BTEX<br>(mg/kg) |
|------------------------|---------------------|--------------------|---------------------|--------------------|-----------------|
| NMOCD Closure Criteria | 600                 | --                 | 100                 | 10                 | 50              |

## 2. Site Assessment and Characterization Sampling

During the liner inspection on June 24<sup>th</sup>, 2024, one grab characterization sample (CS-01) was collected from the breach in a liner at depths of +2-0 above ground surface (elevated tank pad), and 0-2 ft and 2-4 below ground surface. All samples were analyzed for BTEX, TPH and Chloride by Cardinal Laboratories. Analytical results indicated that all samples met closure criteria for the site.

On August 13<sup>th</sup>, 2024, McNabb Partners were on site to complete lateral delineation of the impacts directly outside of the lined tank battery. 4 characterization sample points (i.e., CS-02 through CS-05) were installed with GeoProbe. Grab soil samples were collected at depths of 0.5, 2 and 4 ft bgs. All samples were analyzed for BTEX, TPH and Chloride by Cardinal Laboratories. Analytical results indicated that sample point CS-05 exceeded closure criteria at 0.5 ft bgs. All other samples met closure criteria for the site. To complete a lateral delineation around the lined tank battery, sample CS-05A was collected on September 19<sup>th</sup>, 2024, at the depth of 0.5 ft bgs. A sample was analyzed for BTEX, TPH and met closure criteria for the site. Figures 7 and 8 show examples of lateral delineation locations.





Following a conversation with NMOCD, McNabb Partners returned to the site on September 19<sup>th</sup>, 2024, to cut a 5x5 ft hole for a composite sample in every area where liner has been patched and repaired. Composite samples were to be collected from 5x5 holes at the surface depth (0 ft bgs) under the liner and analyzed for TPH, BTEX and chloride by a certified laboratory. A composite sample CS-01 was collected around the hole in the liner (previously sampled as a grab CS-01 on 6/24/2024). During the site visit, it was noted that cutting multiple 5x5 ft holes in the liner would compromise its integrity, making it impossible to repair effectively after. Therefore, the liner would not be able to contain any future releases. After a conversation with NMOCD and Murchison Oil and Gas, the impacted areas of the liner were to be removed completely and sampled accordingly. The conditions of the soil under the liner are shown in Figures 9 through 14.

On October 7<sup>th</sup>, 2024, after all impacted areas of the liner have been cut out and removed, McNabb Partners collected 17 composite surface samples (i.e., FS-01 through FS-17), each representing an area no greater than 200 sq ft. All samples were analyzed for BTEX, TPH and chloride concentrations. Samples FS-01 through FS-04, FS-08 and FS-10 through FS-16 exceeded closure criteria concentrations for TPH. 6 grab vertical delineation samples (i.e., G-1 through G-6) were collected in the areas with highest field chloride concentrations and most visually impacted areas showing saturated stains and/or salt precipitate crusting (Fig. 9, 10, 12 & 14.) Samples were collected with a geotechnical hand auger at depths ranging from 0.5 to 4 ft bgs. All samples were analyzed for BTEX, TPH and chloride concentrations. Complete vertical delineation was obtained for all sample points G-1 through G-6 at various depths.

### 3. Remediation Activities and Confirmation Sampling

Remediation activities and confirmation sampling event were conducted on October 8<sup>th</sup>, 2024. An impacted area east of the lined containment, represented by sample point CS-05 at 0.5 ft bgs, was excavated to a depth of 1 ft bgs (Figures 19 through 20).

The confirmation soil samples (5-point composite) were collected from areas not greater than 200 square feet (or less) from the excavation bases and sidewalls and analyzed for TPH, BTEX and chloride by a certified laboratory.

1 confirmation sample was collected from the base of the excavation (i.e., BS-01 at 1 ft bgs) and 4 confirmation samples were collected from the walls of the excavation (i.e., WS-01 through WS-04). Analytical results indicate that all confirmation samples met NMOCD closure criteria for chloride concentrations listed in Table I (19.15.29 NMAC).

- Plate 1 shows a site map of the entire Carbon Valley 26 Fed 1 well pad.
- Plates 2 through 9 provide complete site characterization information.
- Plates 10, 11 & 12 show all site characterization, surface composite and grab delineation samples respectively.
- Plate 13 shows the final excavation extent and confirmation sample locations.
- Table A shows the summary of all laboratory data for each sample collected at Site
- All sampling notifications and communications are included in Appendix A.
- Well driller log is included in Appendix B.

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- Laboratory Reports and Chains of Custodies for all samples are included in Appendix C.
- Figures 1 through 20 show the photolog of various activities on Site.

#### 4. Deferral Request

| Deferral Requests Only  |              |
|---|--------------|
| Requesting a deferral of the remediation closure due date with approval of this submission?   | Yes          |
| Have the lateral and vertical extents of the contamination been fully delineated?   | Yes          |
| Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction? | Yes          |
| What is the remaining surface area (in sq ft) that will still need to be remediated if deferral is granted?   | 3357         |
| What is the remaining volume (in cubic yards) what still needs to be remediated if the deferral is granted?   | 249          |
| Enter the facility ID on which this deferral should be granted  |              |
| Enter the well API on which this deferral should be granted   | 30-015-37683 |
| Contamination does not cause an imminent risk to human health, the environment or groundwater.  | Yes          |

McNabb Partners on behalf of 3R Operating, LLC respectfully ask NMOCD for deferral of remediation around active production equipment due to multiple storage tanks and surface pipelines within the containment area. The contamination is fully delineated in sample points G-1 through G-6 at depths between 0.5 and 4 ft bgs and does not cause an imminent risk to human health, the environment, or ground water. The remaining affected soil is confined to the space directly beneath the lined containment and production equipment, where remediation would cause significant deconstruction of the facility.

The remaining soil impacts at the surface (i.e., sample points FS-01 through FS-17) and at the depth (i.e., sample points G-1 through G-6) will be addressed during the facility decommissioning phase in accordance with 19.15.29.12 and 19.15.29.13 NMAC, once the site is no longer being used for oil and gas operations. If the deferral request is approved, a new liner material will be installed and backfilled with a clean gravel layer on top, in the areas where liner has been previously removed. Upon NMOCD request, before the liner installation, a Micro-Blaze solution can be applied to the impacted areas to degrade hydrocarbons present in soil while the facility is still in use.

An action report detailing the final remediation and reclamation efforts and following confirmation sampling activities will be submitted to NMOCD upon the completion of the future work.

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

Sincerely,

October 22, 2024

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Project Manager  
McNabb Partners  
(917) 497-6890



Copy: Brad Grandstaff, 3R Operating, LLC  
Bureau of Land Management  
Murchison Oil and Gas



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Figure 1. Initial Liner Inspection.



Figure 2. Initial Liner Inspection.



Figure 3. Initial Liner Inspection.

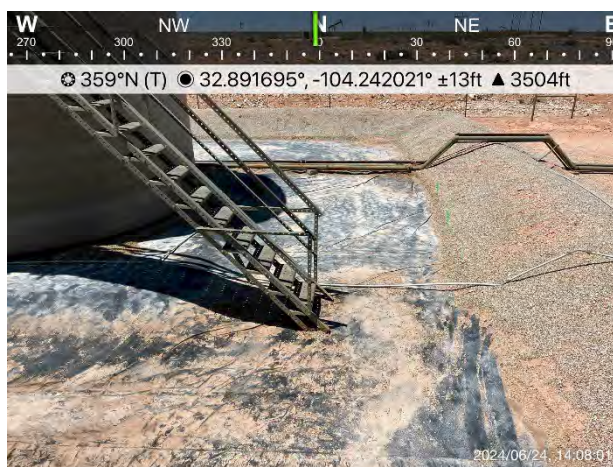


Figure 4. Initial Liner Inspection.



Figure 5. Hole in the liner (CS-01)



Figure 6. Sampling activities (CS-01 – grab)



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Fig. 7. Lateral delineation sampling activities.



Fig. 8. Lateral delineation sampling activities.

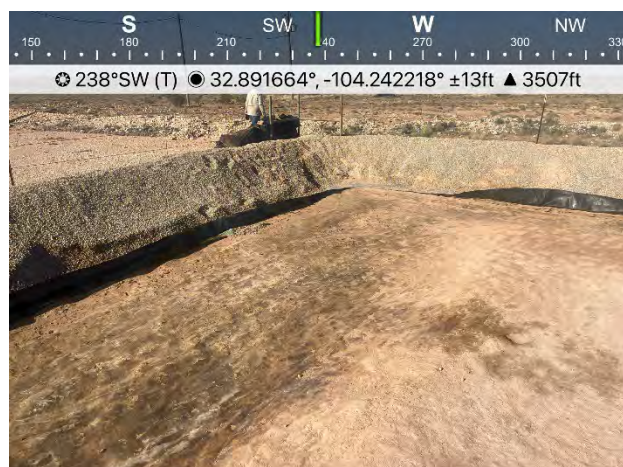


Figure 9. Impacted soil after liner removal.



Figure 10. Impacted soil after liner removal.



Figure 11. Soil conditions after liner removal.

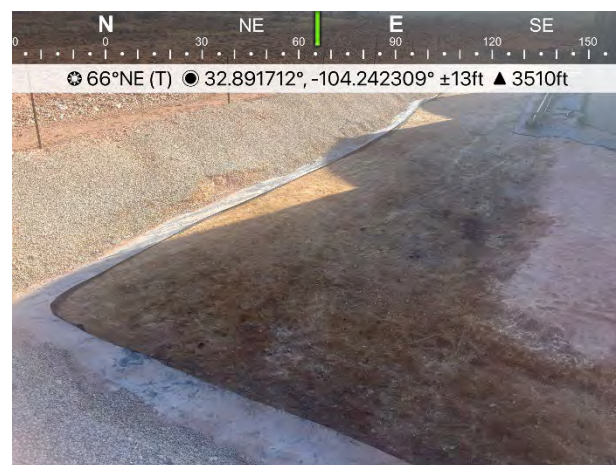


Figure 12. Impacted soil after liner removal.



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Figure 13. Soil conditions after liner removal.



Figure 14. Impacted soil after liner removal.

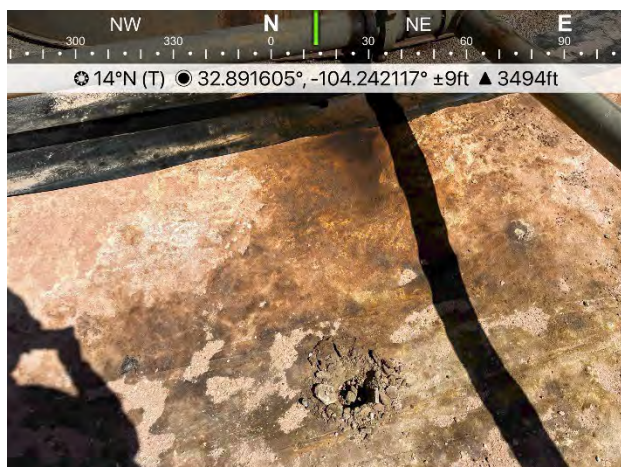


Fig.15. Vertical Delineation Sampling (G-2).



Fig. 16. Composite surface sample CS-01 before liner removal.



Fig. 17. Surface composite sampling (FS-03).



Fig. 18. Vertical Delineation Sampling (G-4).



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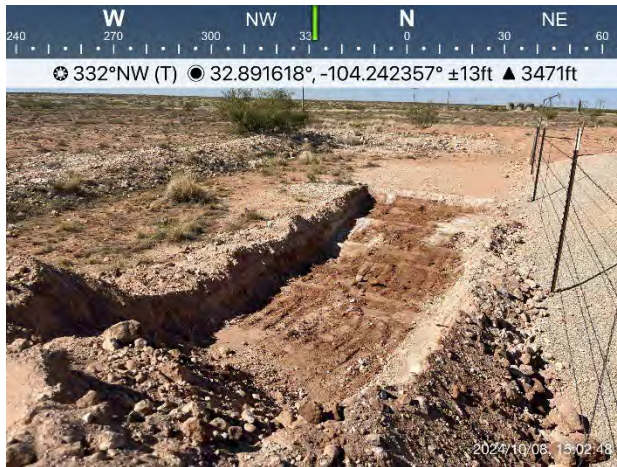


Figure 19. 1 ft Excavation.

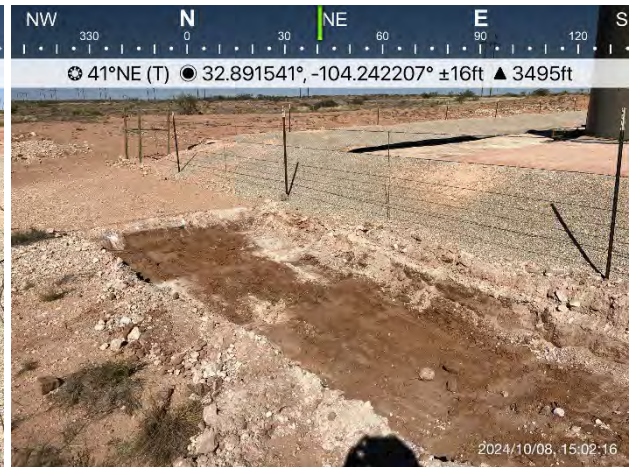


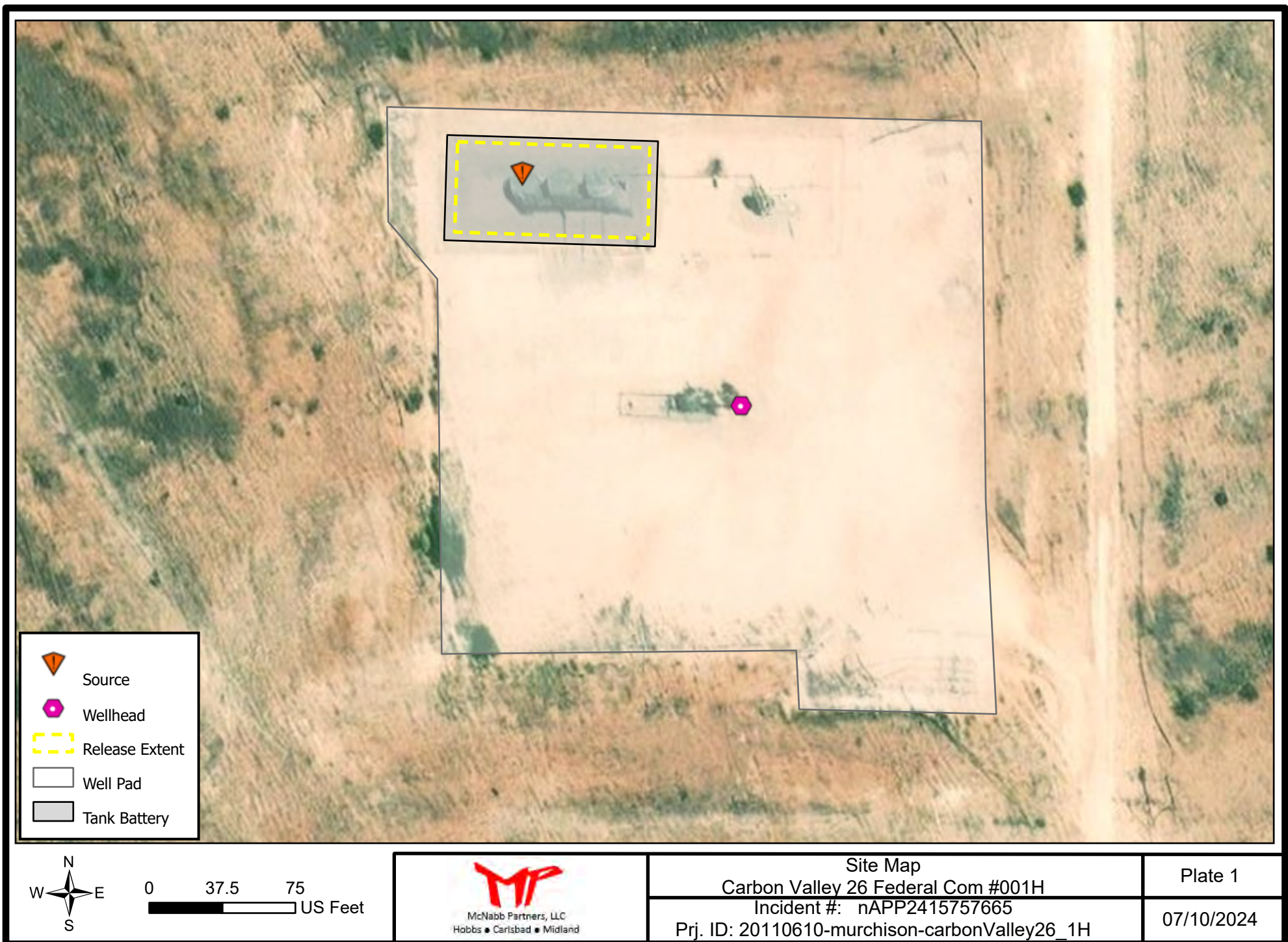
Figure 20. 1 ft Excavation.

# Plates

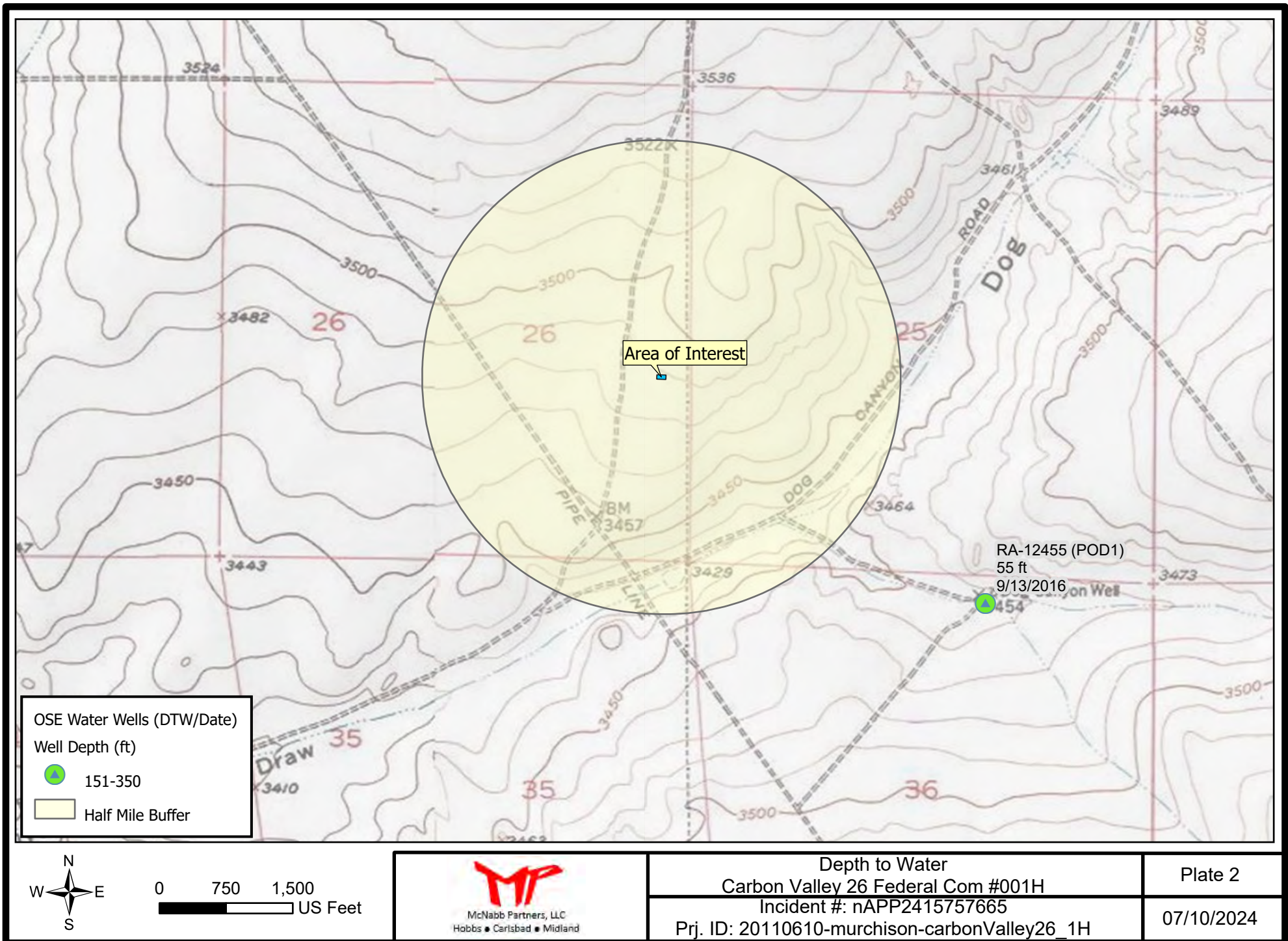


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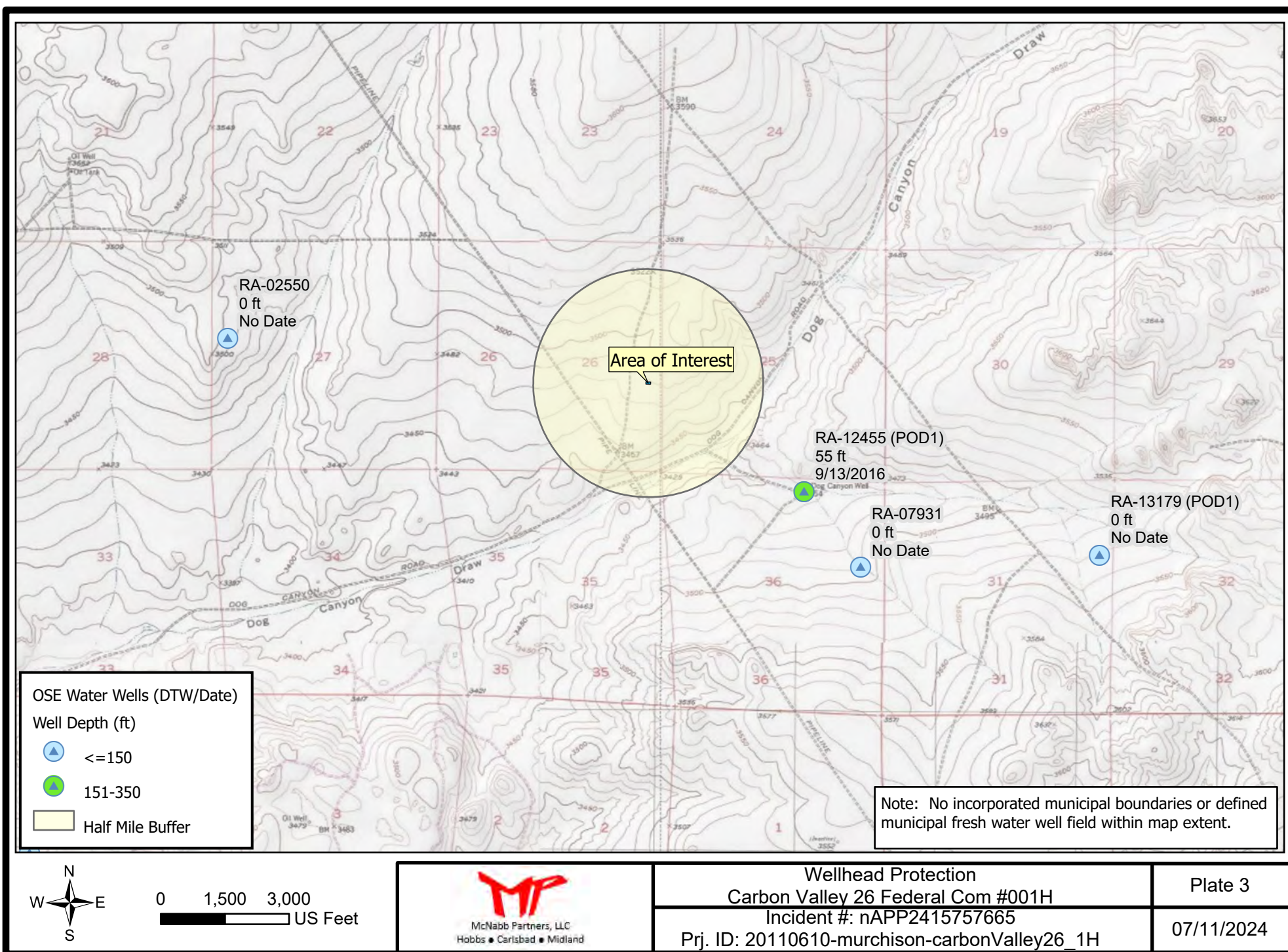




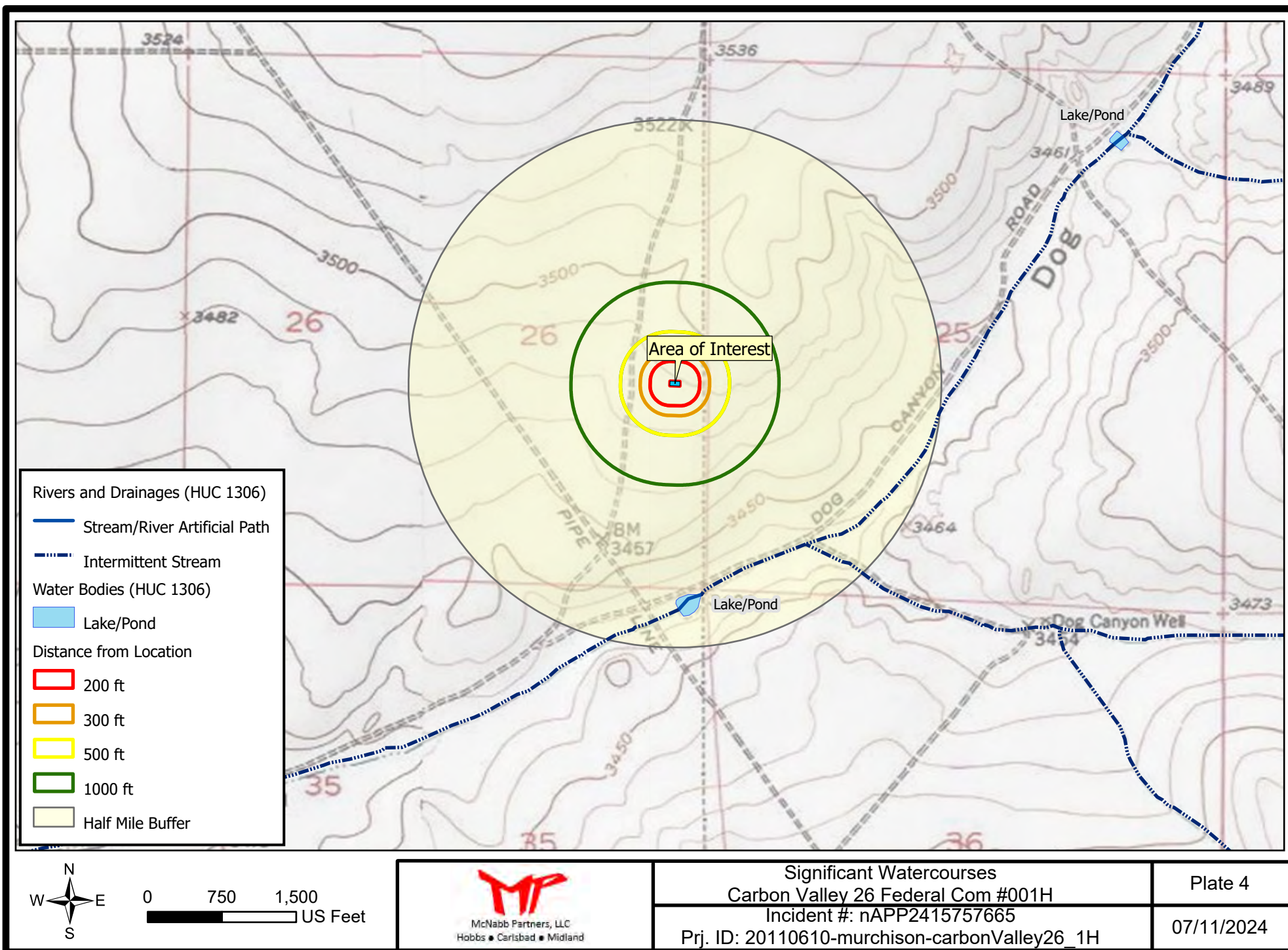




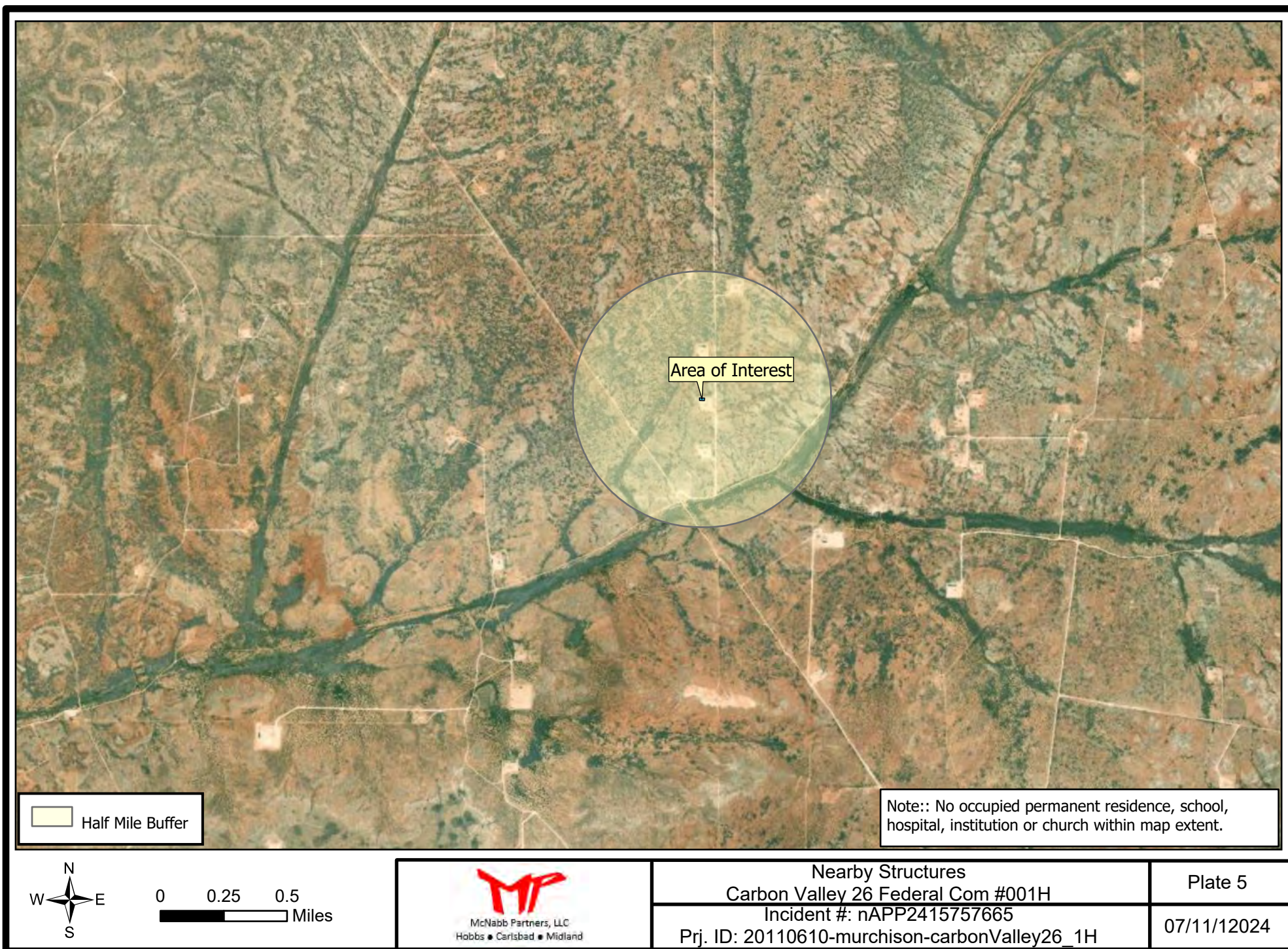




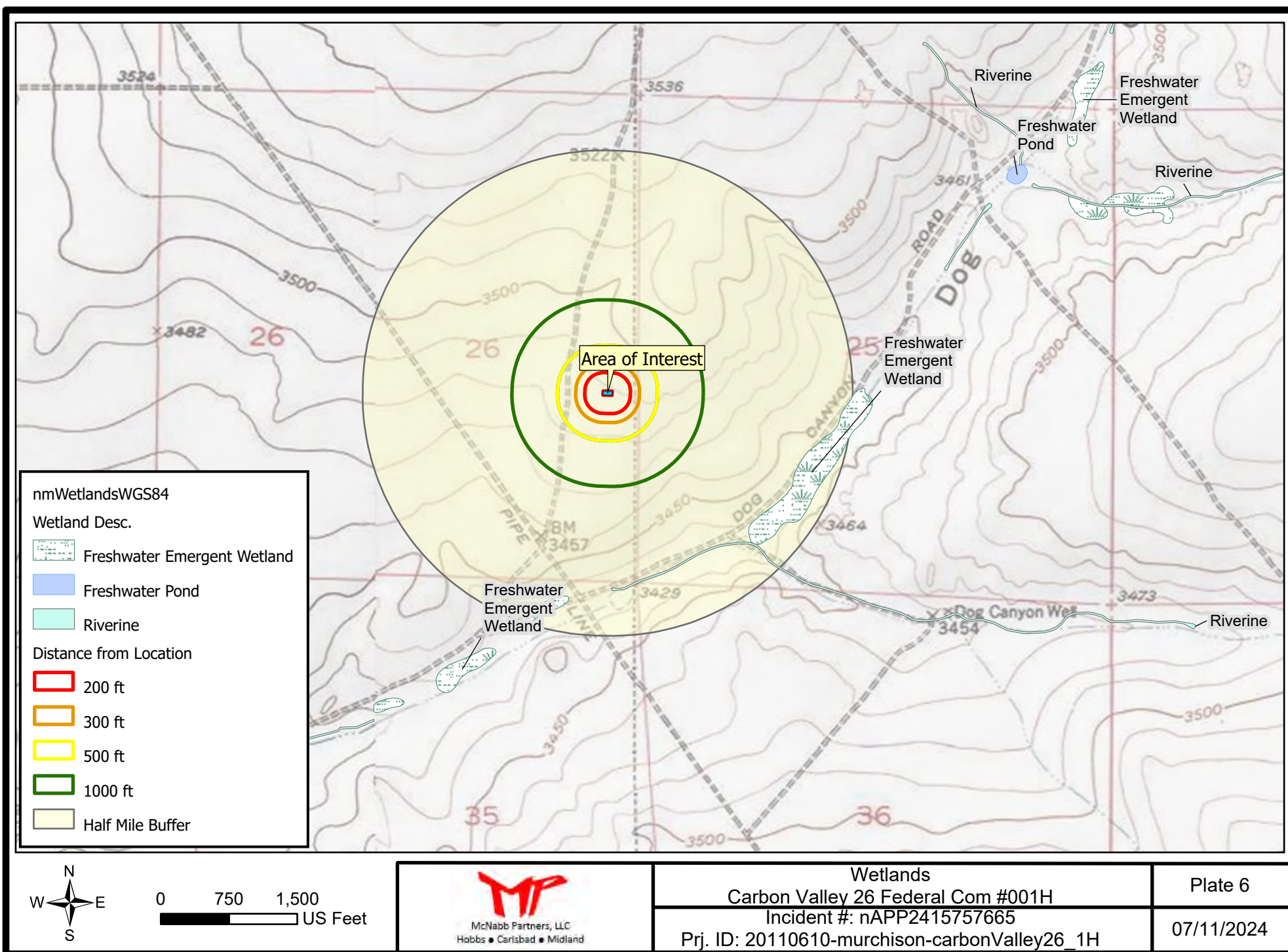




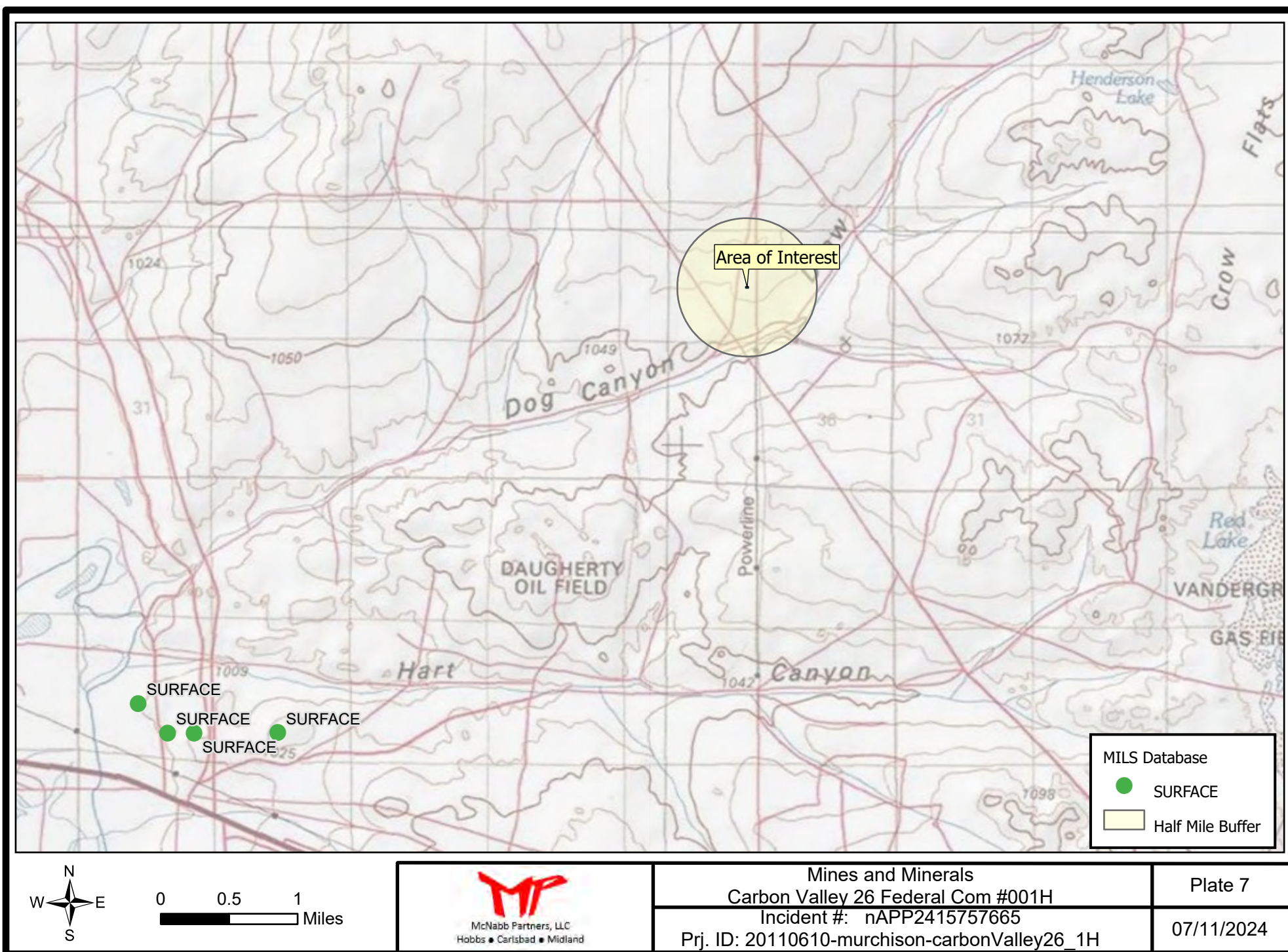




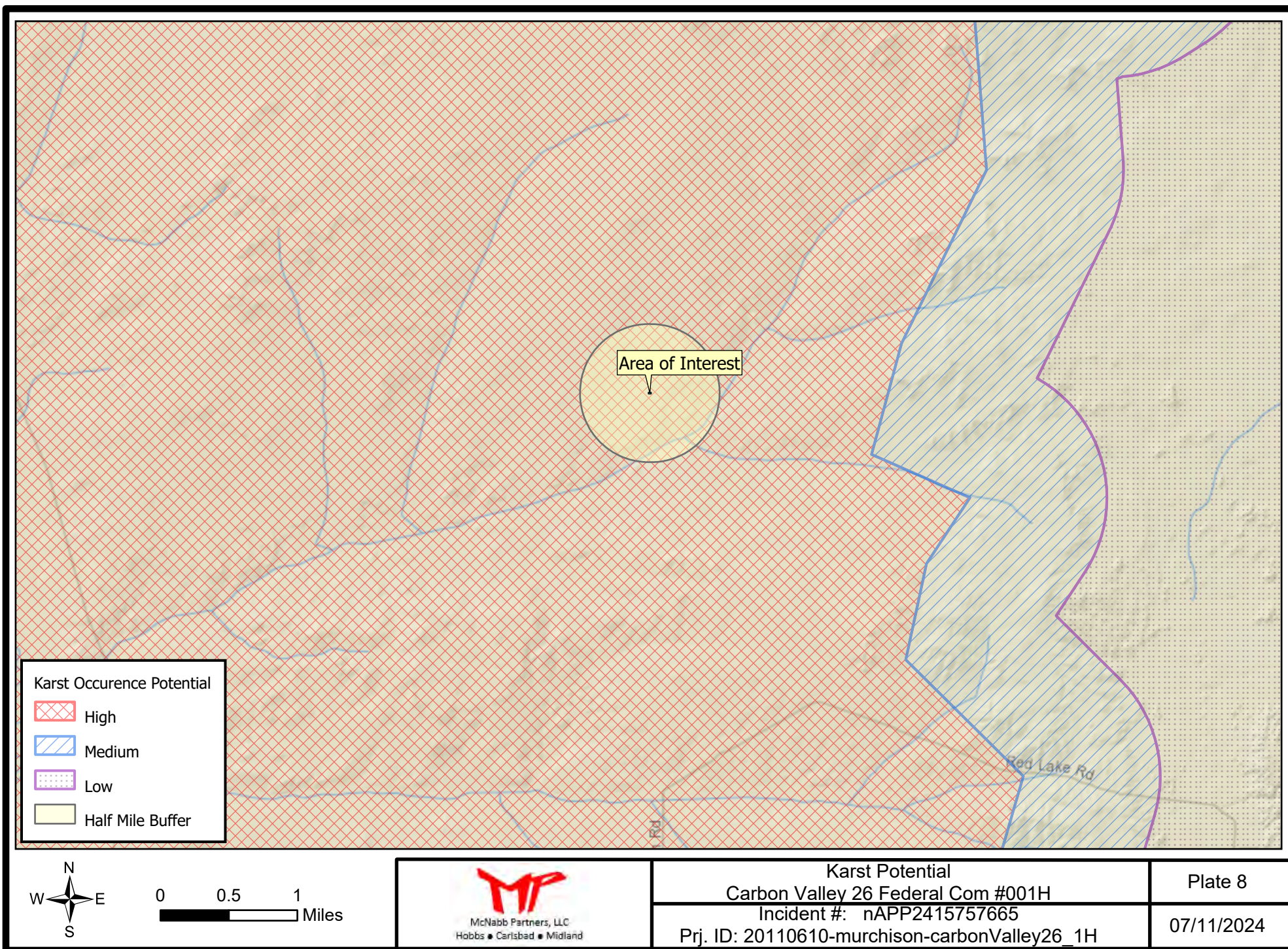




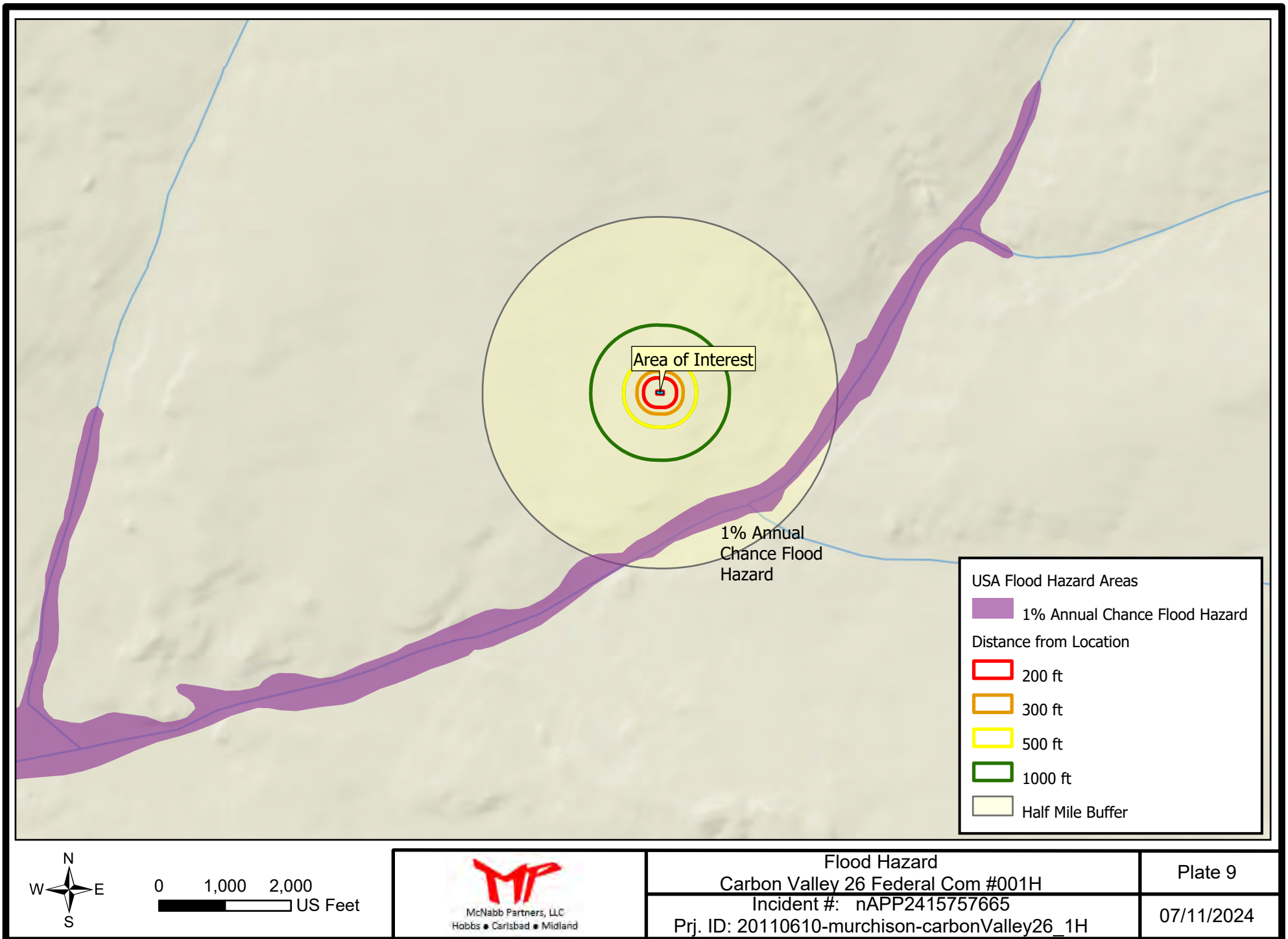


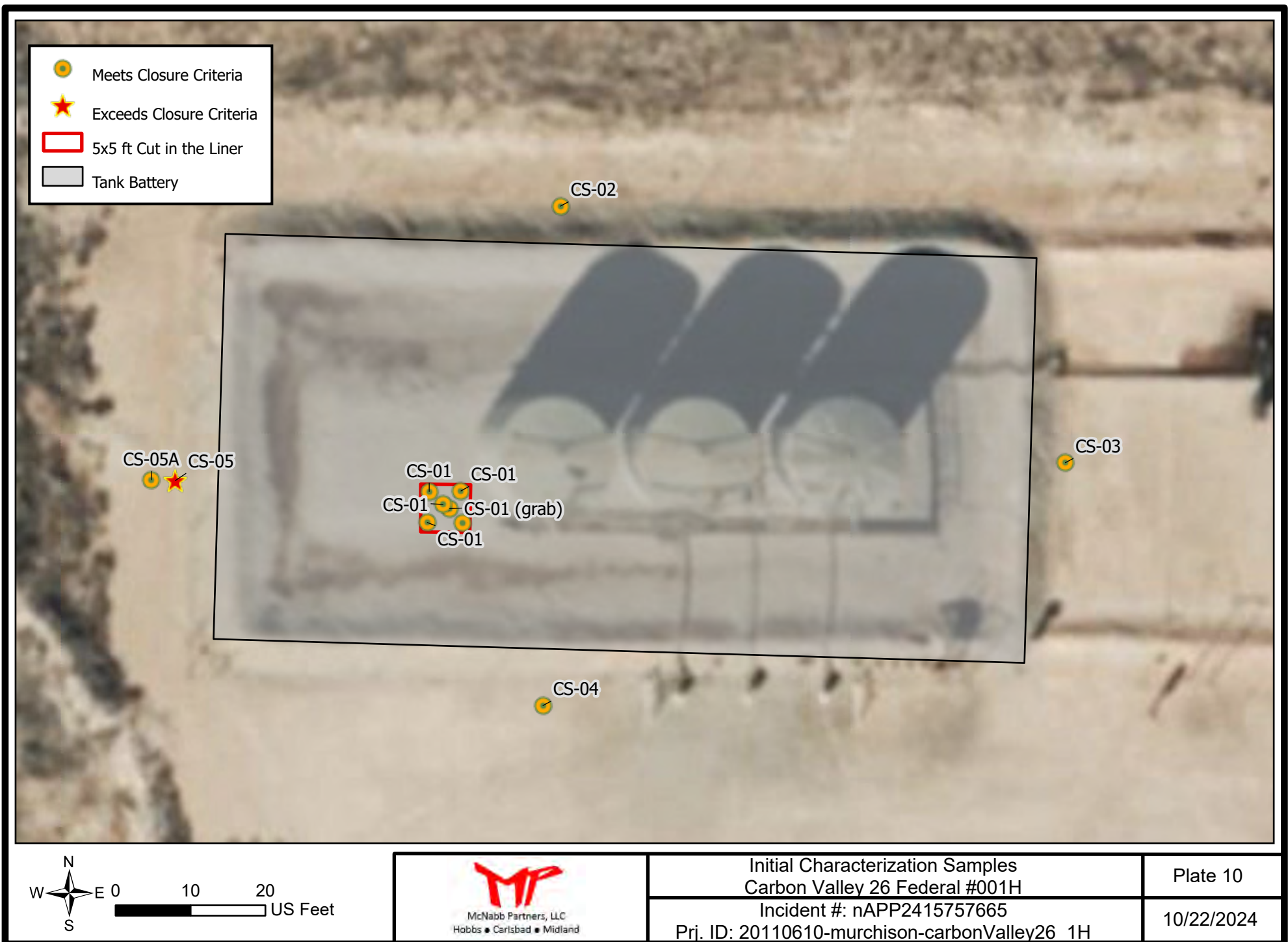






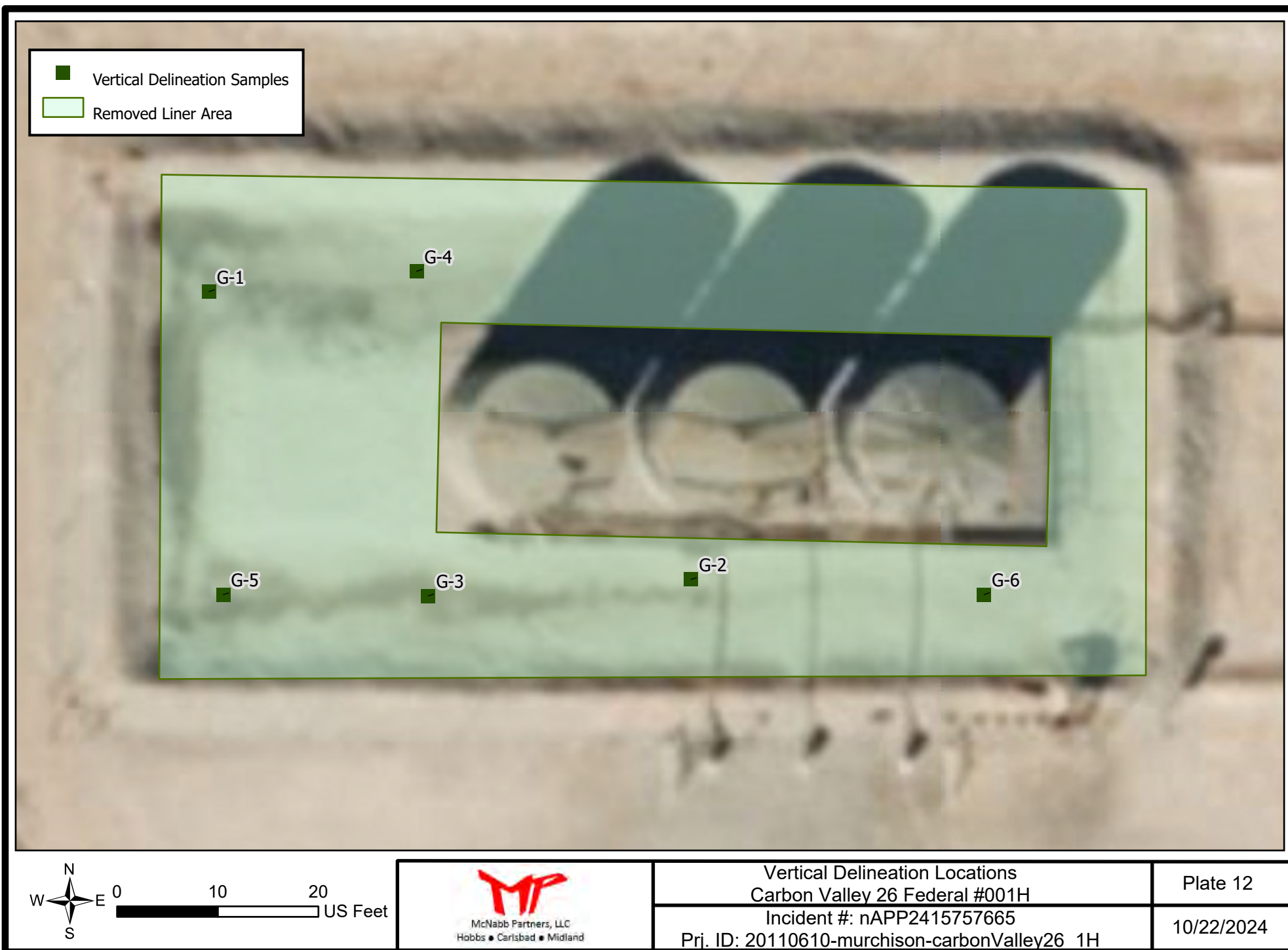


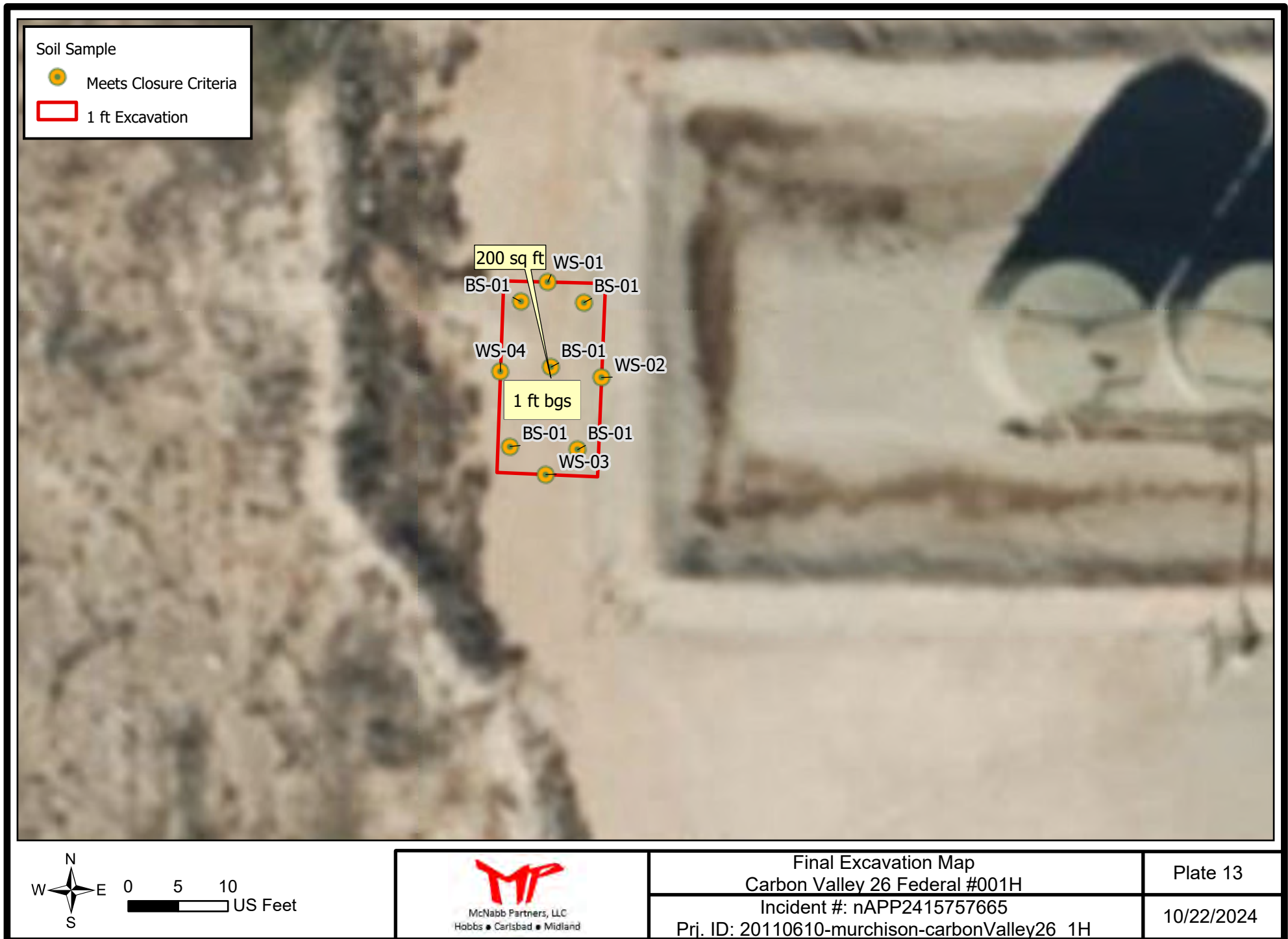












# Tables



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Table A. Analytical Summary  
Carbon Valley 26 Fed #001

| Sample ID                           | Date      | Depth (Feet) | 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) | Lab (Hall/Cardinal) | Lab #      |
|-------------------------------------|-----------|--------------|------------------|-------------|-------------|-----------------|-------------|------------------|-----------------|--------------|---------------------|------------|
| NMOCD Closure Criteria              |           |              | 600              | --          | --          | --              | --          | 100              | 10              | 50           |                     |            |
| Surface Composite Samples           |           |              |                  |             |             |                 |             |                  |                 |              |                     |            |
| CS-01                               | 9/19/2024 | 0            | 32               | <10.0       | 105         | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H245737-01 |
| FS-01                               | 10/7/2024 | 0            | 64               | <10.0       | 2160        | 2160            | 887         | 3047             | <0.050          | <0.300       | Cardinal            | H246095-01 |
| FS-02                               | 10/7/2024 | 0            | 32               | <10.0       | 1060        | 1060            | 535         | 1595             | <0.050          | <0.300       | Cardinal            | H246095-02 |
| FS-03                               | 10/7/2024 | 0            | 224              | <10.0       | 370         | 370             | 185         | 555              | <0.050          | <0.300       | Cardinal            | H246095-03 |
| FS-04                               | 10/7/2024 | 0            | 160              | <10.0       | 294         | 294             | 144         | 438              | <0.050          | <0.300       | Cardinal            | H246095-04 |
| FS-05                               | 10/7/2024 | 0            | 64               | <10.0       | 21.5        | 21.5            | <10.0       | 21.5             | <0.050          | <0.300       | Cardinal            | H246095-05 |
| FS-06                               | 10/7/2024 | 0            | 32               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H246095-06 |
| FS-07                               | 10/7/2024 | 0            | 32               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H246095-07 |
| FS-08                               | 10/7/2024 | 0            | 16               | <10.0       | 128         | 128             | 55.3        | 183.3            | <0.050          | <0.300       | Cardinal            | H246095-08 |
| FS-09                               | 10/7/2024 | 0            | 32               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H246095-09 |
| FS-10                               | 10/7/2024 | 0            | 32               | <10.0       | 3160        | 3160            | 1210        | 4370             | <0.050          | <0.300       | Cardinal            | H246095-10 |
| FS-11                               | 10/7/2024 | 0            | 32               | <50.0       | 9020        | 9020            | 3300        | 12320            | <0.050          | <0.300       | Cardinal            | H246095-11 |
| FS-12                               | 10/7/2024 | 0            | 64               | 86.3        | 7490        | 7576.3          | 2220        | 9796.3           | <0.050          | 1.18         | Cardinal            | H246095-12 |
| FS-13                               | 10/7/2024 | 0            | 48               | <50.0       | 3550        | 3550            | 1500        | 5050             | <0.050          | <0.300       | Cardinal            | H246095-13 |
| FS-14                               | 10/7/2024 | 0            | 16               | <10.0       | 338         | 338             | 165         | 503              | <0.050          | <0.300       | Cardinal            | H246095-14 |
| FS-15                               | 10/7/2024 | 0            | 160              | <10.0       | 1030        | 1030            | 421         | 1451             | <0.050          | <0.300       | Cardinal            | H246095-15 |
| FS-16                               | 10/7/2024 | 0            | 144              | <10.0       | 540         | 540             | 217         | 757              | <0.050          | <0.300       | Cardinal            | H246095-16 |
| FS-17                               | 10/7/2024 | 0            | 32               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H246095-17 |
| Vertical Delineation Grab Samples   |           |              |                  |             |             |                 |             |                  |                 |              |                     |            |
| CS-01                               | 6/24/2024 | +2-0         | 16               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H243780-03 |
| CS-01                               | 6/24/2024 | 0-2          | 32               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H243780-02 |
| CS-01                               | 6/24/2024 | 2-4          | 48               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H243780-01 |
| G-1                                 | 10/7/2024 | 0.5          | 48               | 269         | 22400       | 22669           | 5730        | 28399            | <0.050          | <0.300       | Cardinal            | H246091-01 |
| G-1                                 | 10/7/2024 | 2            | 448              | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H246091-02 |
| G-1                                 | 10/7/2024 | 4            | 48               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H246091-03 |
| G-2                                 | 10/7/2024 | 0.5          | 48               | <10.0       | 468         | 468             | 237         | 705              | <0.050          | <0.300       | Cardinal            | H246091-04 |
| G-2                                 | 10/7/2024 | 2            | 80               | <10.0       | 2420        | 2420            | 762         | 3182             | <0.050          | <0.300       | Cardinal            | H246091-05 |
| G-2                                 | 10/7/2024 | 4            | 192              | <10.0       | 38.5        | 38.5            | 12.3        | 50.8             | <0.050          | <0.300       | Cardinal            | H246091-06 |
| G-3                                 | 10/7/2024 | 0.5          | 32               | <10.0       | 368         | 368             | 315         | 683              | <0.050          | <0.300       | Cardinal            | H246091-07 |
| G-3                                 | 10/7/2024 | 2            | 480              | <10.0       | 11.7        | 11.7            | 17.8        | 29.5             | <0.050          | <0.300       | Cardinal            | H246091-08 |
| G-3                                 | 10/7/2024 | 4            | 48               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H246091-09 |
| G-4                                 | 10/7/2024 | 0.5          | 64               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H246091-11 |
| G-5                                 | 10/7/2024 | 0.5          | 48               | <10.0       | 7050        | 7050            | 2700        | 9750             | <0.050          | <0.300       | Cardinal            | H246091-12 |
| G-5                                 | 10/7/2024 | 2            | 48               | <10.0       | <10.0       | <20.0           | 12.7        | 12.7             | <0.050          | <0.300       | Cardinal            | H246091-13 |
| G-6                                 | 10/7/2024 | 2            | 544              | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H246091-14 |
| Horizontal Delineation Grab Samples |           |              |                  |             |             |                 |             |                  |                 |              |                     |            |
| CS-02                               | 8/13/2024 | 0.5          | 32               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H244988-01 |
| CS-02                               | 8/13/2024 | 3            | 16               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H244988-02 |
| CS-03                               | 8/13/2024 | 0.5          | 128              | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H244988-03 |

Table A. Analytical Summary  
Carbon Valley 26 Fed #001

| Sample ID                             | Date      | Depth (Feet) | 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) | Lab (Hall/Cardinal) | Lab #      |
|---------------------------------------|-----------|--------------|------------------|-------------|-------------|-----------------|-------------|------------------|-----------------|--------------|---------------------|------------|
| NMOCD Closure Criteria                |           |              | 600              | --          | --          | --              | --          | 100              | 10              | 50           |                     |            |
| CS-03                                 | 8/13/2024 | 2            | 16               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H244988-04 |
| CS-03                                 | 8/13/2024 | 4            | 16               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H244988-05 |
| CS-04                                 | 8/13/2024 | 0.5          | 32               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H244988-06 |
| CS-04                                 | 8/13/2024 | 2            | 32               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H244988-07 |
| CS-04                                 | 8/13/2024 | 4            | 32               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H244988-08 |
| CS-05                                 | 8/13/2024 | 0.5          | 832              | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H244988-09 |
| CS-05                                 | 8/13/2024 | 2            | 48               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H244988-10 |
| CS-05                                 | 8/13/2024 | 4            | 32               | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H244988-11 |
| CS-05A                                | 9/19/2024 | 0.5          | 32               | <10.0       | 105         | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H245737-02 |
| Excavation Confirmation Samples       |           |              |                  |             |             |                 |             |                  |                 |              |                     |            |
| BS-01 (base sample)                   | 10/8/2024 | 1            | 144              | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H246128-01 |
| WS-01 (side wall)                     | 10/8/2024 | 0-1          | 304              | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H246128-02 |
| WS-02 (side wall)                     | 10/8/2024 | 0-1          | 352              | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H246128-03 |
| WS-03 (side wall)                     | 10/8/2024 | 0-1          | 272              | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H246128-04 |
| WS-04 (side wall)                     | 10/8/2024 | 0-1          | 368              | <10.0       | <10.0       | <20.0           | <10.0       | <30.0            | <0.050          | <0.300       | Cardinal            | H246128-05 |
| Legend:                               |           |              |                  |             |             |                 |             |                  |                 |              |                     |            |
| Sample exceeds NMOCD Closure Criteria |           |              |                  |             |             |                 |             |                  |                 |              |                     |            |
| Sample point has been excavated       |           |              |                  |             |             |                 |             |                  |                 |              |                     |            |



# 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 355952

QUESTIONS

|   |  |
|---|--|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:<br>15363  |
|   | Action Number:<br>355952   |
|   | Action Type:<br>[NOTIFY] Notification Of Liner Inspection (C-141L) |

QUESTIONS

|                  |  |
|------------------|--|
| Prerequisites    |  |
| Incident ID (n#) | nAPP2415757665   |
| Incident Name    | NAPP2415757665 CARBON VALLEY 26 FEDERAL COM #001H @ 30-015-37683 |
| Incident Type    | Other  |
| Incident Status  | Initial C-141 Approved   |
| Incident Well    | [30-015-37683] CARBON VALLEY 26 FEDERAL COM #001H                |

|                            |                                    |
|----------------------------|------------------------------------|
| Location of Release Source |                                    |
| Site Name                  | CARBON VALLEY 26 FEDERAL COM #001H |
| Date Release Discovered    | 06/10/2011                         |
| Surface Owner              | Federal                            |

|   |   |
|---|---|
| Liner Inspection Event Information  |   |
| Please answer all the questions in this group.  |   |
| What is the liner inspection surface area in square feet  | 4,600   |
| 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 | 06/24/2024  |
| Time liner inspection will commence   | 11:00 AM  |
| Please provide any information necessary for observers to liner inspection                              | Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890 |
| Please provide any information necessary for navigation to liner inspection site                        | GPS coordinates: 32.8917089, -104.242147                          |

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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 355952

CONDITIONS

|   |  |
|---|--|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:<br>15363  |
|   | Action Number:<br>355952   |
|   | Action Type:<br>[NOTIFY] Notification Of Liner Inspection (C-141L) |

CONDITIONS

| Created By | Condition  | Condition Date |
|------------|--|----------------|
| aparkermp  | 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. | 6/19/2024      |

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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 355954

QUESTIONS

|   |  |
|---|--|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:<br>15363  |
|   | Action Number:<br>355954                                   |
|   | Action Type:<br>[NOTIFY] Notification Of Sampling (C-141N) |

QUESTIONS

|                  |  |
|------------------|--|
| Prerequisites    |  |
| Incident ID (n#) | nAPP2415757665   |
| Incident Name    | NAPP2415757665 CARBON VALLEY 26 FEDERAL COM #001H @ 30-015-37683 |
| Incident Type    | Other  |
| Incident Status  | Initial C-141 Approved   |
| Incident Well    | [30-015-37683] CARBON VALLEY 26 FEDERAL COM #001H                |

|                            |                                    |
|----------------------------|------------------------------------|
| Location of Release Source |                                    |
| Site Name                  | CARBON VALLEY 26 FEDERAL COM #001H |
| Date Release Discovered    | 06/10/2011                         |
| Surface Owner              | Federal                            |

|   |   |
|---|---|
| Sampling Event General Information  |   |
| Please answer all the questions in this group.  |   |
| What is the sampling surface area in square feet  | 4,600   |
| What is the estimated number of samples that will be gathered                                   | 3   |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 06/24/2024  |
| Time sampling will commence   | 11:00 AM  |
| Please provide any information necessary for observers to contact samplers                      | Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890 |
| Please provide any information necessary for navigation to sampling site                        | GPS coordinates: 32.8917089, -104.242147                          |

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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 355954

CONDITIONS

|   |  |
|---|--|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:<br>15363  |
|   | Action Number:<br>355954                                   |
|   | Action Type:<br>[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. | 6/19/2024      |

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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 362375

**QUESTIONS**

|   |  |
|---|--|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:<br>15363  |
|   | Action Number:<br>362375   |
|   | Action Type:<br>[NOTIFY] Notification Of Liner Inspection (C-141L) |

**QUESTIONS**

| Prerequisites    |  |
|------------------|--|
| Incident ID (n#) | nAPP2415757665   |
| Incident Name    | NAPP2415757665 CARBON VALLEY 26 FEDERAL COM #001H @ 30-015-37683 |
| Incident Type    | Other  |
| Incident Status  | Initial C-141 Approved   |
| Incident Well    | [30-015-37683] CARBON VALLEY 26 FEDERAL COM #001H                |

**Location of Release Source**

|                         |                                    |
|-------------------------|------------------------------------|
| Site Name               | CARBON VALLEY 26 FEDERAL COM #001H |
| Date Release Discovered | 06/10/2011                         |
| Surface Owner           | Federal                            |

**Liner Inspection Event Information***Please answer all the questions in this group.*

|   |   |
|---|---|
| What is the liner inspection surface area in square feet  | 4,600   |
| 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 | 07/12/2024  |
| Time liner inspection will commence   | 08:30 AM  |
| Please provide any information necessary for observers to liner inspection                              | Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890 |
| Please provide any information necessary for navigation to liner inspection site                        | GPS coordinates: 32.8917089, -104.242147                          |

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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 362375

CONDITIONS

|   |  |
|---|--|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:<br>15363  |
|   | Action Number:<br>362375   |
|   | Action Type:<br>[NOTIFY] Notification Of Liner Inspection (C-141L) |

CONDITIONS

| Created By | Condition  | Condition Date |
|------------|--|----------------|
| aparkermp  | 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. | 7/9/2024       |

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**State of New Mexico**  
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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 372131

**QUESTIONS**

|   |  |
|---|--|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:<br>15363  |
|   | Action Number:<br>372131                                   |
|   | Action Type:<br>[NOTIFY] Notification Of Sampling (C-141N) |

**QUESTIONS**

| Prerequisites    |  |
|------------------|--|
| Incident ID (n#) | nAPP2415757665   |
| Incident Name    | NAPP2415757665 CARBON VALLEY 26 FEDERAL COM #001H @ 30-015-37683 |
| Incident Type    | Other  |
| Incident Status  | Initial C-141 Approved   |
| Incident Well    | [30-015-37683] CARBON VALLEY 26 FEDERAL COM #001H                |

| Location of Release Source |                                    |
|----------------------------|------------------------------------|
| Site Name                  | CARBON VALLEY 26 FEDERAL COM #001H |
| Date Release Discovered    | 06/10/2011                         |
| Surface Owner              | Federal                            |

| Sampling Event General Information  |   |
|---|---|
| Please answer all the questions in this group.  |   |
| What is the sampling surface area in square feet  | 800   |
| What is the estimated number of samples that will be gathered                                   | 4   |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 08/13/2024  |
| Time sampling will commence   | 08:00 AM  |
| Please provide any information necessary for observers to contact samplers                      | Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890 |
| Please provide any information necessary for navigation to sampling site                        | GPS coordinates: 32.8917089, -104.242147                          |



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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 372131

CONDITIONS

|   |  |
|---|--|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:<br>15363  |
|   | Action Number:<br>372131                                   |
|   | Action Type:<br>[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       |

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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 383740

**QUESTIONS**

|   |  |
|---|--|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:<br>15363  |
|   | Action Number:<br>383740                                   |
|   | Action Type:<br>[NOTIFY] Notification Of Sampling (C-141N) |

**QUESTIONS**

| Prerequisites    |  |
|------------------|--|
| Incident ID (n#) | nAPP2415757665   |
| Incident Name    | NAPP2415757665 CARBON VALLEY 26 FEDERAL COM #001H @ 30-015-37683 |
| Incident Type    | Other  |
| Incident Status  | Initial C-141 Approved   |
| Incident Well    | [30-015-37683] CARBON VALLEY 26 FEDERAL COM #001H                |

| Location of Release Source |                                    |
|----------------------------|------------------------------------|
| Site Name                  | CARBON VALLEY 26 FEDERAL COM #001H |
| Date Release Discovered    | 06/10/2011                         |
| Surface Owner              | Federal                            |

| Sampling Event General Information  |   |
|---|---|
| Please answer all the questions in this group.  |   |
| What is the sampling surface area in square feet  | 4,600   |
| 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 | 09/19/2024  |
| Time sampling will commence   | 08:00 AM  |
| Please provide any information necessary for observers to contact samplers                      | Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890 |
| Please provide any information necessary for navigation to sampling site                        | GPS coordinates: 32.8917089, -104.242147                          |

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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 383740

CONDITIONS

|   |  |
|---|--|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:<br>15363  |
|   | Action Number:<br>383740                                   |
|   | Action Type:<br>[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. | 9/16/2024      |

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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 383747

**QUESTIONS**

|   |                |
|---|----------------|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:         |
|   | 15363          |
|   | Action Number: |
|   | 383747         |
| Action Type:  |                |
| [NOTIFY] Notification Of Liner Inspection (C-141L)                                |                |

**QUESTIONS**

|                      |  |
|----------------------|--|
| <b>Prerequisites</b> |  |
| Incident ID (n#)     | nAPP2415757665   |
| Incident Name        | NAPP2415757665 CARBON VALLEY 26 FEDERAL COM #001H @ 30-015-37683 |
| Incident Type        | Other  |
| Incident Status      | Initial C-141 Approved   |
| Incident Well        | [30-015-37683] CARBON VALLEY 26 FEDERAL COM #001H                |

**Location of Release Source**

|                         |                                    |
|-------------------------|------------------------------------|
| Site Name               | CARBON VALLEY 26 FEDERAL COM #001H |
| Date Release Discovered | 06/10/2011                         |
| Surface Owner           | Federal                            |

**Liner Inspection Event Information***Please answer all the questions in this group.*

|   |   |
|---|---|
| What is the liner inspection surface area in square feet  | 4,600   |
| 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 | 09/19/2024  |
| Time liner inspection will commence   | 08:00 AM  |
| Please provide any information necessary for observers to liner inspection                              | Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890 |
| Please provide any information necessary for navigation to liner inspection site                        | GPS coordinates: 32.8917089, -104.242147                          |



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

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

CONDITIONS  
  
Action 383747

CONDITIONS

|   |  |
|---|--|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:<br>15363  |
|   | Action Number:<br>383747   |
|   | Action Type:<br>[NOTIFY] Notification Of Liner Inspection (C-141L) |

CONDITIONS

| Created By | Condition  | Condition Date |
|------------|--|----------------|
| aparkermp  | 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. | 9/16/2024      |

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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 389300

**QUESTIONS**

|   |  |
|---|--|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:<br>15363  |
|   | Action Number:<br>389300                                   |
|   | Action Type:<br>[NOTIFY] Notification Of Sampling (C-141N) |

**QUESTIONS**

| Prerequisites    |  |
|------------------|--|
| Incident ID (n#) | nAPP2415757665   |
| Incident Name    | NAPP2415757665 CARBON VALLEY 26 FEDERAL COM #001H @ 30-015-37683 |
| Incident Type    | Other  |
| Incident Status  | Initial C-141 Approved   |
| Incident Well    | [30-015-37683] CARBON VALLEY 26 FEDERAL COM #001H                |

| Location of Release Source |                                    |
|----------------------------|------------------------------------|
| Site Name                  | CARBON VALLEY 26 FEDERAL COM #001H |
| Date Release Discovered    | 06/10/2011                         |
| Surface Owner              | Federal                            |

| Sampling Event General Information  |  |
|---|--|
| Please answer all the questions in this group.  |  |
| What is the sampling surface area in square feet  | 3,357  |
| What is the estimated number of samples that will be gathered                                   | 17   |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 10/04/2024   |
| Time sampling will commence   | 10:00 AM   |
| Please provide any information necessary for observers to contact samplers                      | Sampling plan was sent to Brittany.Hall@emnrd.nm.gov as requested. Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890 |
| Please provide any information necessary for navigation to sampling site                        | GPS coordinates: 32.8913345,-104.2418213   |

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

CONDITIONS

Action 389300

CONDITIONS

|   |  |
|---|--|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:<br>15363  |
|   | Action Number:<br>389300                                   |
|   | Action Type:<br>[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. | 10/2/2024      |

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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 389303

QUESTIONS

|   |  |
|---|--|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:<br>15363  |
|   | Action Number:<br>389303                                   |
|   | Action Type:<br>[NOTIFY] Notification Of Sampling (C-141N) |

QUESTIONS

|                      |  |
|----------------------|--|
| <b>Prerequisites</b> |  |
| Incident ID (n#)     | nAPP2415757665   |
| Incident Name        | NAPP2415757665 CARBON VALLEY 26 FEDERAL COM #001H @ 30-015-37683 |
| Incident Type        | Other  |
| Incident Status      | Initial C-141 Approved   |
| Incident Well        | [30-015-37683] CARBON VALLEY 26 FEDERAL COM #001H                |

|                                   |                                    |
|-----------------------------------|------------------------------------|
| <b>Location of Release Source</b> |                                    |
| Site Name                         | CARBON VALLEY 26 FEDERAL COM #001H |
| Date Release Discovered           | 06/10/2011                         |
| Surface Owner                     | Federal                            |

|   |  |
|---|--|
| <b>Sampling Event General Information</b>   |  |
| <i>Please answer all the questions in this group.</i>   |  |
| What is the sampling surface area in square feet  | 3,357  |
| What is the estimated number of samples that will be gathered                                   | 17   |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 10/07/2024   |
| Time sampling will commence   | 10:00 AM   |
| Please provide any information necessary for observers to contact samplers                      | Sampling plan was sent to Brittany.Hall@emnrd.nm.gov as requested. Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890 |
| Please provide any information necessary for navigation to sampling site                        | GPS coordinates: 32.8913345,-104.2418213   |



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Oil Conservation Division  
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Santa Fe, NM 87505

CONDITIONS  
  
Action 389303

CONDITIONS

|   |  |
|---|--|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:<br>15363  |
|   | Action Number:<br>389303                                   |
|   | Action Type:<br>[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. | 10/2/2024      |

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

QUESTIONS

Action 390094

**QUESTIONS**

|   |  |
|---|--|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:<br>15363  |
|   | Action Number:<br>390094                                   |
|   | Action Type:<br>[NOTIFY] Notification Of Sampling (C-141N) |

**QUESTIONS**

| Prerequisites    |  |
|------------------|--|
| Incident ID (n#) | nAPP2415757665   |
| Incident Name    | NAPP2415757665 CARBON VALLEY 26 FEDERAL COM #001H @ 30-015-37683 |
| Incident Type    | Other  |
| Incident Status  | Initial C-141 Approved   |
| Incident Well    | [30-015-37683] CARBON VALLEY 26 FEDERAL COM #001H                |

| Location of Release Source |                                    |
|----------------------------|------------------------------------|
| Site Name                  | CARBON VALLEY 26 FEDERAL COM #001H |
| Date Release Discovered    | 06/10/2011                         |
| Surface Owner              | Federal                            |

| Sampling Event General Information  |   |
|---|---|
| Please answer all the questions in this group.  |   |
| What is the sampling surface area in square feet  | 200   |
| 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 | 10/08/2024  |
| Time sampling will commence   | 10:00 AM  |
| Please provide any information necessary for observers to contact samplers                      | Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890 |
| Please provide any information necessary for navigation to sampling site                        | 32.891686, -104.242356  |

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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

CONDITIONS  
  
Action 390094

CONDITIONS

|   |  |
|---|--|
| Operator:<br>Murchison Oil and Gas, LLC<br>7250 Dallas Parkway<br>Plano, TX 75024 | OGRID:<br>15363  |
|   | Action Number:<br>390094                                   |
|   | Action Type:<br>[NOTIFY] Notification Of Sampling (C-141N) |

CONDITIONS

| Created By | Condition   | Condition Date |
|------------|---|----------------|
| ccottrell  | 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. | 10/4/2024      |



Outlook

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**RE: [EXTERNAL] Carbon Valley Sampling Plans**

---

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

**Date** Wed 10/2/2024 2:48 PM

**To** Cindy Cottrell <ccottrell@jdmii.com>

**Cc** Dmitry Nikanorov <Dimitry@mcnabbpartners.com>; Greg Boans <gboans@jdmii.com>; Luke Pumphrey <lpumphrey@jdmii.com>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>; Romero, Rosa, EMNRD <RosaM.Romero@emnrd.nm.gov>

Cindy,

The sampling plans for the Carbon Valley 25 Federal Com #007 (nAPP2415754364), Carbon Valley 31 Federal Com #001H (nAPP2415757870), and Carbon Valley 26 Federal Com #001H (nAPP2415757665) are approved with the following conditions:

- All aliquots of the 5-point composite samples must be collected from areas where the liner has been removed. Any aliquots collected from soil that is still underneath portions of the liner that remains in place will not be accepted nor will the composite samples that contain those aliquots will not be accepted.
- Site maps must illustrate where the aliquots for each 5-point composite sample were collected from.
- Horizontal delineation must be completed.
- Any deferral requests will be reviewed on a case-by-case basis and must meet the requirements of a deferral pursuant to 19.15.29.12 C.(2) NMAC.

Do you anticipate the sampling taking both days to complete? The sampling notifications were submitted for the same times for each site on 10/4 and 10/7.

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, October 2, 2024 11:09 AM

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

**Cc:** Dmitry Nikanorov <Dimitry@mcnabbpartners.com>; Greg Boans <gboans@jdmii.com>; Luke Pumphrey <lpumphrey@jdmii.com>

**Subject:** [EXTERNAL] Carbon Valley Sampling Plans

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

Hi Brittany,

The sampling plans for the Carbon Valley 25-7, 31-1 and 26-1 are attached for your review and approval. If everything looks good to you, we will send sampling notifications for Friday or next Monday.

Thank you,



Cindy Cottrell  
Regulatory Coordinator & Corporate Secretary  
7250 Dallas Parkway, Suite 1400  
Plano, TX 75024  
Direct Line: 469-573-6413



# Appendix B

## Well Log



McNabb Partners, LLC  
Hobbs • Carlsbad • Midland



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

|   |           |     |         |         |  |             |              |
|---|-----------|-----|---------|---------|--|-------------|--------------|
|   |           |     |         |         | OSE FILE NUMBER(S)<br>RA 12455   |             |              |
| WELL OWNER NAME(S)<br>KEY LIVESTOCK, LLC  |           |     |         |         | PHONE (OPTIONAL)   |             |              |
| WELL OWNER MAILING ADDRESS<br>1012 E 2ND ST   |           |     |         |         | CITY<br>ROSWELL  | STATE<br>NM | ZIP<br>88201 |
| WELL<br>LOCATION<br>(FROM GPS)  | DEGREES   |     | MINUTES | SECONDS | * ACCURACY REQUIRED: ONE TENTH OF A SECOND<br>* DATUM REQUIRED: WGS 84 |             |              |
|   | LATITUDE  | 32  | 53      | 04.88   |  |             |              |
|   | LONGITUDE | 104 | 13      | 49.001  | W  |             |              |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE |           |     |         |         |  |             |              |

|   |   |                                     |                             |  |   |  |  |
|---|---|-------------------------------------|-----------------------------|--|---|--|--|
| LICENSE NUMBER<br>WD-1058   | NAME OF LICENSED DRILLER<br>DON KUEHN III |                                     |                             | NAME OF WELL DRILLING COMPANY<br>KEYS DRILLING & PUMP SERVICE INC. |   |  |  |
| DRILLING STARTED<br>09-12-16  | DRILLING ENDED<br>09-13-16                | DEPTH OF COMPLETED WELL (FT)<br>200 | BORE HOLE DEPTH (FT)<br>200 | DEPTH WATER FIRST ENCOUNTERED (FT)<br>55                           |   |  |  |
| COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)                           |   |                                     |                             |  | STATIC WATER LEVEL IN COMPLETED WELL (FT)<br>55 |  |  |
| DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:  |   |                                     |                             |  |   |  |  |
| DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY: |   |                                     |                             |  |   |  |  |

| DEPTH (feet bgl) |     | BORE HOLE<br>DIAM.<br>(inches) | CASING MATERIAL AND/OR<br>GRADE<br>(include each casing string, and<br>note sections of screen) | CASING<br>CONNECTION<br>TYPE | CASING<br>INSIDE DIAM.<br>(inches) | CASING WALL<br>THICKNESS<br>(inches) | SLOT<br>SIZE<br>(inches) |
|------------------|-----|--------------------------------|---|------------------------------|------------------------------------|--------------------------------------|--------------------------|
| FROM             | TO  |                                |   |                              |                                    |                                      |                          |
| -2               | 20  | 12-3/4"                        | STEEL   |                              | 8"                                 | 1/4"                                 |                          |
| -2               | 160 | 7-7/8"                         | PVC   | SPLINE                       | 4-1/2"                             | SCH40                                |                          |
| 160              | 200 | 7-7/8"                         | PVC   | SPLINE                       | 4-1/2"                             | SCH40                                | .030                     |
|                  |     |                                |   |                              |                                    |                                      |                          |
|                  |     |                                |   |                              |                                    |                                      |                          |
|                  |     |                                |   |                              |                                    |                                      |                          |
|                  |     |                                |   |                              |                                    |                                      |                          |
|                  |     |                                |   |                              |                                    |                                      |                          |
|                  |     |                                |   |                              |                                    |                                      |                          |
|                  |     |                                |   |                              |                                    |                                      |                          |

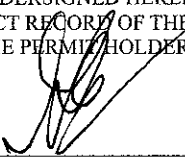
  

| DEPTH (feet bgl) |     | BORE HOLE<br>DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND<br>GRAVEL PACK SIZE-RANGE BY INTERVAL | AMOUNT<br>(cubic feet) | METHOD OF<br>PLACEMENT |
|------------------|-----|-----------------------------|--|------------------------|------------------------|
| FROM             | TO  |                             |  |                        |                        |
| 0                | 20  | 12-3/4"                     | CEMENT   |                        | HAND                   |
| 20               | 200 | 7-7/8"                      | VEALMORE PEA GRAVEL  |                        | HAND                   |
|                  |     |                             |  |                        |                        |
|                  |     |                             |  |                        |                        |
|                  |     |                             |  |                        |                        |
|                  |     |                             |  |                        |                        |
|                  |     |                             |  |                        |                        |

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 06/08/2012)

|             |            |            |       |            |             |
|-------------|------------|------------|-------|------------|-------------|
| FILE NUMBER | RA-12455   | POD NUMBER | 1     | TRN NUMBER | 592288      |
| LOCATION    | 16S-27E-36 |            | 2.1.2 | Don        | PAGE 1 OF 2 |

| 4. HYDROGEOLOGIC LOG OF WELL  | DEPTH (feet bgl)  |   | THICKNESS<br>(feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED -<br>INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES<br>(attach supplemental sheets to fully describe all units) | WATER<br>BEARING?<br>(YES / NO)                                  | ESTIMATED<br>YIELD FOR<br>WATER-<br>BEARING<br>ZONES (gpm) |
|---|---|---|---------------------|--|--|--|
|   | FROM  | TO  |                     |  |  |  |
|   | 0   | 20  | 20                  | SURFACE  | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |  |
|   | 20  | 40  | 20                  | BROWN CLAY   | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |  |
|   | 40  | 50  | 10                  | GYPSON   | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |  |
|   | 50  | 55  | 5                   | SAND ZONE  | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |  |
|   | 55  | 65  | 10                  | GREY SANDSTONE   | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |  |
|   | 65  | 70  | 5                   | SAND & GREY CLAY   | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |  |
|   | 70  | 80  | 10                  | SANDY BROWN CLAY   | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |  |
|   | 80  | 90  | 10                  | GYPSON   | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |  |
|   | 90  | 130   | 40                  | RED SANDY CLAY   | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |  |
|   | 130   | 150   | 20                  | GYPSON   | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |  |
|   | 150   | 160   | 10                  | BROWN SANDY CLAY   | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N |  |
|   | 160   | 200   | 40                  | GYPSON   | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N |  |
|   |   |   |                     |  | <input type="checkbox"/> Y <input type="checkbox"/> N            |  |
|   |   |   |                     |  | <input type="checkbox"/> Y <input type="checkbox"/> N            |  |
|   |   |   |                     |  | <input type="checkbox"/> Y <input type="checkbox"/> N            |  |
|   |   |   |                     |  | <input type="checkbox"/> Y <input type="checkbox"/> N            |  |
|   |   |   |                     |  | <input type="checkbox"/> Y <input type="checkbox"/> N            |  |
|   |   |   |                     |  | <input type="checkbox"/> Y <input type="checkbox"/> N            |  |
|   |   |   |                     |  | <input type="checkbox"/> Y <input type="checkbox"/> N            |  |
|   |   |   |                     |  | <input type="checkbox"/> Y <input type="checkbox"/> N            |  |
|   |   |   |                     |  | <input type="checkbox"/> Y <input type="checkbox"/> N            |  |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input checked="" type="checkbox"/> PUMP             |   |   |                     |  | TOTAL ESTIMATED<br>WELL YIELD (gpm): 17                          |  |
| <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: |   |   |                     |  |  |  |
| 5. TEST; RIG SUPERVISION  | WELL TEST   | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. |                     |  |  |  |
|   | MISCELLANEOUS INFORMATION:  |   |                     |  |  |  |
|   | PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:<br>DON KUEHN III  |   |                     |  |  |  |
| 6. SIGNATURE  | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING: |   |                     |  |  |  |
|   | <br>GARY KEY   |   |                     |  | 09-27-16   |  |
|   | SIGNATURE OF DRILLER / PRINT SIGNEE NAME  |   |                     |  | DATE   |  |

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 06/08/2012)

|             |            |            |            |             |
|-------------|------------|------------|------------|-------------|
| FILE NUMBER | RA-12455   | POD NUMBER | TRN NUMBER | 592288      |
| LOCATION    | 16S-27E-36 | 2-1-2      | 20m        | PAGE 2 OF 2 |

# Appendix C

## Laboratory Reports and Chain-Of-Custody Documents



McNabb Partners, LLC  
Hobbs • Carlsbad • Midland



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

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July 01, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: CARBON VALLEY 26-1

Enclosed are the results of analyses for samples received by the laboratory on 06/25/24 13:22.

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:         | 06/25/2024              | Sampling Date:      | 06/24/2024     |
| Reported:         | 07/01/2024              | Sampling Type:      | Soil           |
| Project Name:     | CARBON VALLEY 26-1      | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN              | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO, NM |                     |                |

**Sample ID: CS - 01 0-2 (H243780-01)**

| 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           | 06/30/2024 | ND           | 1.97            | 98.3       | 2.00          | 5.13 |           |
| Toluene*       | <0.050 | 0.050           | 06/30/2024 | ND           | 1.93            | 96.3       | 2.00          | 4.90 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 06/30/2024 | ND           | 1.96            | 98.0       | 2.00          | 4.81 |           |
| Total Xylenes* | <0.150 | 0.150           | 06/30/2024 | ND           | 5.76            | 95.9       | 6.00          | 4.69 |           |
| Total BTEX     | <0.300 | 0.300           | 06/30/2024 | ND           |                 |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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             | 32.0   | 16.0            | 06/28/2024 | ND           | 400             | 100        | 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            | 06/29/2024 | ND           | 202             | 101        | 200           | 1.22 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/29/2024 | ND           | 184             | 92.0       | 200           | 8.60 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/29/2024 | ND           |                 |            |               |      |           |

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 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: 06/25/2024  
 Reported: 07/01/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 06/24/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: CS - 01 2-4 (H243780-02)**

| 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           | 06/30/2024 | ND              | 1.97 | 98.3       | 2.00          | 5.13 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/30/2024 | ND              | 1.93 | 96.3       | 2.00          | 4.90 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/30/2024 | ND              | 1.96 | 98.0       | 2.00          | 4.81 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/30/2024 | ND              | 5.76 | 95.9       | 6.00          | 4.69 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/30/2024 | 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             | 48.0   | 16.0            | 06/28/2024 | ND              | 400 | 100        | 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            | 06/29/2024 | ND              | 202 | 101        | 200           | 1.22 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/29/2024 | ND              | 184 | 92.0       | 200           | 8.60 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/29/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

|                   |                         |                     |                |
|-------------------|-------------------------|---------------------|----------------|
| Received:         | 06/25/2024              | Sampling Date:      | 06/24/2024     |
| Reported:         | 07/01/2024              | Sampling Type:      | Soil           |
| Project Name:     | CARBON VALLEY 26-1      | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN              | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO, NM |                     |                |

**Sample ID: CS - 01 +2-0 (H243780-03)**

| 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           | 06/30/2024      | ND           | 1.97 | 98.3       | 2.00          | 5.13 |           |  |
| Toluene*       | <0.050 | 0.050           | 06/30/2024      | ND           | 1.93 | 96.3       | 2.00          | 4.90 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 06/30/2024      | ND           | 1.96 | 98.0       | 2.00          | 4.81 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 06/30/2024      | ND           | 5.76 | 95.9       | 6.00          | 4.69 |           |  |
| Total BTEX     | <0.300 | 0.300           | 06/30/2024      | ND           |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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            | 06/28/2024      | ND           | 400 | 100        | 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            | 06/29/2024      | ND           | 202 | 101        | 200           | 1.22 |           |  |
| DRO >C10-C28*    | <10.0  | 10.0            | 06/29/2024      | ND           | 184 | 92.0       | 200           | 8.60 |           |  |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 06/29/2024      | ND           |     |            |               |      |           |  |

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

\*=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<br>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



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





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: CARBON VALLEY 26-1

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, 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: 08/16/2024  
 Reported: 08/20/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 08/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 02 (0.5') (H244988-01)**

| 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              | 2.06 | 103        | 2.00          | 0.747 |           |
| Toluene*       | <0.050 | 0.050           | 08/19/2024 | ND              | 2.11 | 105        | 2.00          | 0.882 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/19/2024 | ND              | 2.12 | 106        | 2.00          | 1.26  |           |
| Total Xylenes* | <0.150 | 0.150           | 08/19/2024 | ND              | 6.58 | 110        | 6.00          | 0.314 |           |
| Total BTEX     | <0.300 | 0.300           | 08/19/2024 | ND              |      |            |               |       |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 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            | 08/19/2024 | ND              | 210 | 105        | 200           | 2.16 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 08/19/2024 | ND              | 204 | 102        | 200           | 1.55 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 08/19/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 76.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 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: 08/16/2024  
 Reported: 08/20/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 08/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 02 (3') (H244988-02)**

| 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              | 2.06 | 103        | 2.00          | 0.747 |           |  |
| Toluene*       | <0.050 | 0.050           | 08/19/2024 | ND              | 2.11 | 105        | 2.00          | 0.882 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 08/19/2024 | ND              | 2.12 | 106        | 2.00          | 1.26  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 08/19/2024 | ND              | 6.58 | 110        | 6.00          | 0.314 |           |  |
| Total BTEX     | <0.300 | 0.300           | 08/19/2024 | ND              |      |            |               |       |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 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            | 08/19/2024 | ND              | 210 | 105        | 200           | 2.16 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 08/19/2024 | ND              | 204 | 102        | 200           | 1.55 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 08/19/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 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  
 Reported: 08/20/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 08/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 03 (0.5') (H244988-03)**

| 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              | 2.06 | 103        | 2.00          | 0.747 |           |  |
| Toluene*       | <0.050 | 0.050           | 08/19/2024 | ND              | 2.11 | 105        | 2.00          | 0.882 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 08/19/2024 | ND              | 2.12 | 106        | 2.00          | 1.26  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 08/19/2024 | ND              | 6.58 | 110        | 6.00          | 0.314 |           |  |
| Total BTEX     | <0.300 | 0.300           | 08/19/2024 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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             | 128    | 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            | 08/19/2024 | ND              | 210 | 105        | 200           | 2.16 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 08/19/2024 | ND              | 204 | 102        | 200           | 1.55 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 08/19/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 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: CARBON VALLEY 26-1  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 08/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 03 (2') (H244988-04)**

| 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              | 2.06 | 103        | 2.00          | 0.747 |           |
| Toluene*       | <0.050 | 0.050           | 08/19/2024 | ND              | 2.11 | 105        | 2.00          | 0.882 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/19/2024 | ND              | 2.12 | 106        | 2.00          | 1.26  |           |
| Total Xylenes* | <0.150 | 0.150           | 08/19/2024 | ND              | 6.58 | 110        | 6.00          | 0.314 |           |
| Total BTEX     | <0.300 | 0.300           | 08/19/2024 | ND              |      |            |               |       |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 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            | 08/19/2024 | ND              | 210 | 105        | 200           | 2.16 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 08/19/2024 | ND              | 204 | 102        | 200           | 1.55 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 08/19/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 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  
 Reported: 08/20/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 08/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 03 (4') (H244988-05)**

| 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              | 2.06 | 103        | 2.00          | 0.747 |           |  |
| Toluene*       | <0.050 | 0.050           | 08/19/2024 | ND              | 2.11 | 105        | 2.00          | 0.882 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 08/19/2024 | ND              | 2.12 | 106        | 2.00          | 1.26  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 08/19/2024 | ND              | 6.58 | 110        | 6.00          | 0.314 |           |  |
| Total BTEX     | <0.300 | 0.300           | 08/19/2024 | ND              |      |            |               |       |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 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            | 08/19/2024 | ND              | 210 | 105        | 200           | 2.16 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 08/19/2024 | ND              | 204 | 102        | 200           | 1.55 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 08/19/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 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: 08/16/2024  
 Reported: 08/20/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 08/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 04 (0.5') (H244988-06)**

| 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              | 2.06 | 103        | 2.00          | 0.747 |           |  |
| Toluene*       | <0.050 | 0.050           | 08/19/2024 | ND              | 2.11 | 105        | 2.00          | 0.882 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 08/19/2024 | ND              | 2.12 | 106        | 2.00          | 1.26  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 08/19/2024 | ND              | 6.58 | 110        | 6.00          | 0.314 |           |  |
| Total BTEX     | <0.300 | 0.300           | 08/19/2024 | ND              |      |            |               |       |           |  |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 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            | 08/19/2024 | ND              | 210 | 105        | 200           | 2.16 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 08/19/2024 | ND              | 204 | 102        | 200           | 1.55 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 08/19/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 79.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 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: CARBON VALLEY 26-1  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 08/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 04 (2') (H244988-07)**

| 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              | 2.06 | 103        | 2.00          | 0.747 |           |
| Toluene*       | <0.050 | 0.050           | 08/19/2024 | ND              | 2.11 | 105        | 2.00          | 0.882 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/19/2024 | ND              | 2.12 | 106        | 2.00          | 1.26  |           |
| Total Xylenes* | <0.150 | 0.150           | 08/19/2024 | ND              | 6.58 | 110        | 6.00          | 0.314 |           |
| Total BTEX     | <0.300 | 0.300           | 08/19/2024 | ND              |      |            |               |       |           |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 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            | 08/19/2024 | ND              | 210 | 105        | 200           | 2.16 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 08/19/2024 | ND              | 204 | 102        | 200           | 1.55 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 08/19/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 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: 08/16/2024  
 Reported: 08/20/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 08/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 04 (4') (H244988-08)**

| 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              | 2.06 | 103        | 2.00          | 0.747 |           |  |
| Toluene*       | <0.050 | 0.050           | 08/19/2024 | ND              | 2.11 | 105        | 2.00          | 0.882 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 08/19/2024 | ND              | 2.12 | 106        | 2.00          | 1.26  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 08/19/2024 | ND              | 6.58 | 110        | 6.00          | 0.314 |           |  |
| Total BTEX     | <0.300 | 0.300           | 08/19/2024 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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            | 08/19/2024 | ND              | 210 | 105        | 200           | 2.16 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 08/19/2024 | ND              | 204 | 102        | 200           | 1.55 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 08/19/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 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  
 Reported: 08/20/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 08/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 05 (0.5') (H244988-09)**

| 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) 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             | 832    | 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            | 08/19/2024 | 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 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 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: 08/16/2024  
 Reported: 08/20/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 08/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 05 (2') (H244988-10)**

| 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) 96.9 % 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             | 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            | 08/19/2024 | 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 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 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  
 Reported: 08/20/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 08/13/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS - 05 (4') (H244988-11)**

| 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) 97.8 % 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             | 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            | 08/19/2024 | 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 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 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

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

Cardinal Laboratories

\*=Accredited Analyte

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

Caley 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<br><b>Project Manager:</b> Dmitry Nikanorov<br><b>Address:</b> 5014 W Carlsbad Hwy<br><b>City:</b> Hobbs<br><b>Phone #:</b> 917-497-6890<br><b>Project #:</b><br><b>Project Name:</b> Carbon Valley 26-1<br><b>Project Location:</b> Eddy Co. NM<br><b>Sampler Name:</b> Dmitry Nikanorov, Andrew Parker |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  | <b>RELINQUISHED BY:</b><br><b>Date:</b> 8/14/24<br><b>Time:</b> 1:05<br><b>Signature:</b> [Signature] |  |  |  |  |  |  |  |  |  |
| <b>Company Name:</b> Murchison Oil & Gas<br><b>Project Manager:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM<br><b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667   |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |



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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

September 24, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: CARBON VALLEY 26-1

Enclosed are the results of analyses for samples received by the laboratory on 09/20/24 12:48.

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: 09/20/2024  
 Reported: 09/24/2024  
 Project Name: CARBON VALLEY 26-1  
 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: Shalyn Rodriguez

**Sample ID: CS - 01 0 FT (H245737-01)**

| 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           | 09/20/2024 | ND              | 2.09 | 105        | 2.00          | 2.25 |           |
| Toluene*       | <0.050 | 0.050           | 09/20/2024 | ND              | 2.04 | 102        | 2.00          | 2.32 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 09/20/2024 | ND              | 2.11 | 106        | 2.00          | 2.51 |           |
| Total Xylenes* | <0.150 | 0.150           | 09/20/2024 | ND              | 6.33 | 105        | 6.00          | 2.57 |           |
| Total BTEX     | <0.300 | 0.300           | 09/20/2024 | 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             | 32.0   | 16.0            | 09/23/2024 | ND              | 416 | 104        | 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            | 09/20/2024 | ND              | 220 | 110        | 200           | 2.49 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 09/20/2024 | ND              | 218 | 109        | 200           | 2.01 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 09/20/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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: CARBON VALLEY 26-1  
 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: Shalyn Rodriguez

**Sample ID: CS - 05 0.5 FT (H245737-02)**

| 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           | 09/20/2024 | ND              | 2.09 | 105        | 2.00          | 2.25 |           |  |
| Toluene*       | <0.050 | 0.050           | 09/20/2024 | ND              | 2.04 | 102        | 2.00          | 2.32 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 09/20/2024 | ND              | 2.11 | 106        | 2.00          | 2.51 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 09/20/2024 | ND              | 6.33 | 105        | 6.00          | 2.57 |           |  |
| Total BTEX     | <0.300 | 0.300           | 09/20/2024 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 16.0   | 16.0            | 09/23/2024 | ND              | 416 | 104        | 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            | 09/20/2024 | ND              | 220 | 110        | 200           | 2.49 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 09/20/2024 | ND              | 218 | 109        | 200           | 2.01 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 09/20/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 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 "Caley D. Keene".

Caley D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476

Page 5 of 5





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

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October 18, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: CARBON VALLEY 26-1

Enclosed are the results of analyses for samples received by the laboratory on 10/08/24 10:50.

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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

|                  |   |
|------------------|---|
| Method SM 9223-B | Total Coliform and E. coli (Colilert MMO-MUG)   |
| Method EPA 524.2 | Regulated VOCs and Total Trihalomethanes (TTHM) |
| Method EPA 552.2 | Total Haloacetic Acids (HAA-5)                  |

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

| Sample ID  | Laboratory ID | Matrix | Date Sampled    | Date Received   |
|------------|---------------|--------|-----------------|-----------------|
| FS - 01 0' | H246095-01    | Soil   | 07-Oct-24 00:00 | 08-Oct-24 10:50 |
| FS - 02 0' | H246095-02    | Soil   | 07-Oct-24 00:00 | 08-Oct-24 10:50 |
| FS - 03 0' | H246095-03    | Soil   | 07-Oct-24 00:00 | 08-Oct-24 10:50 |
| FS - 04 0' | H246095-04    | Soil   | 07-Oct-24 00:00 | 08-Oct-24 10:50 |
| FS - 05 0' | H246095-05    | Soil   | 07-Oct-24 00:00 | 08-Oct-24 10:50 |
| FS - 06 0' | H246095-06    | Soil   | 07-Oct-24 00:00 | 08-Oct-24 10:50 |
| FS - 07 0' | H246095-07    | Soil   | 07-Oct-24 00:00 | 08-Oct-24 10:50 |
| FS - 08 0' | H246095-08    | Soil   | 07-Oct-24 00:00 | 08-Oct-24 10:50 |
| FS - 09 0' | H246095-09    | Soil   | 07-Oct-24 00:00 | 08-Oct-24 10:50 |
| FS - 10 0' | H246095-10    | Soil   | 07-Oct-24 00:00 | 08-Oct-24 10:50 |
| FS - 11 0' | H246095-11    | Soil   | 07-Oct-24 00:00 | 08-Oct-24 10:50 |
| FS - 12 0' | H246095-12    | Soil   | 07-Oct-24 00:00 | 08-Oct-24 10:50 |
| FS - 13 0' | H246095-13    | Soil   | 07-Oct-24 00:00 | 08-Oct-24 10:50 |
| FS - 14 0' | H246095-14    | Soil   | 07-Oct-24 00:00 | 08-Oct-24 10:50 |
| FS - 15 0' | H246095-15    | Soil   | 07-Oct-24 00:00 | 08-Oct-24 10:50 |
| FS - 16 0' | H246095-16    | Soil   | 07-Oct-24 00:00 | 08-Oct-24 10:50 |
| FS - 17 0' | H246095-17    | Soil   | 07-Oct-24 00:00 | 08-Oct-24 10:50 |

10/18/24 - Client added depth to all samples (see COC). This is the revised report and will replace the one sent on 10/10/24.

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**FS - 01 0'**  
**H246095-01 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|                 |             |  |      |       |   |         |    |           |           |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| <b>Chloride</b> | <b>64.0</b> |  | 16.0 | mg/kg | 4 | 4100831 | AC | 08-Oct-24 | 4500-Cl-B |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134 4100809 JH 08-Oct-24 8021B

**Petroleum Hydrocarbons by GC FID**

|                  |             |  |      |       |   |         |    |           |       |  |
|------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0       |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| DRO >C10-C28*    | <b>2160</b> |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| EXT DRO >C28-C36 | <b>887</b>  |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |

Surrogate: 1-Chlorooctane 109 % 48.2-134 4100815 ms 08-Oct-24 8015B

Surrogate: 1-Chlorooctadecane 120 % 49.1-148 4100815 ms 08-Oct-24 8015B

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**FS - 02 0'**  
**H246095-02 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|                 |             |  |      |       |   |         |    |           |           |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| <b>Chloride</b> | <b>32.0</b> |  | 16.0 | mg/kg | 4 | 4100831 | AC | 08-Oct-24 | 4500-Cl-B |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |

|                                       |  |  |       |          |  |         |    |           |       |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 106 % | 71.5-134 |  | 4100809 | JH | 08-Oct-24 | 8021B |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |             |  |      |       |   |         |    |           |       |  |
|------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0       |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| DRO >C10-C28*    | <b>1060</b> |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| EXT DRO >C28-C36 | <b>535</b>  |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |

|                           |  |  |       |          |  |         |    |           |       |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 107 % | 48.2-134 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

|                               |  |  |       |          |  |         |    |           |       |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 109 % | 49.1-148 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**FS - 03 0'**  
**H246095-03 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|                 |            |  |      |       |   |         |    |           |           |  |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| <b>Chloride</b> | <b>224</b> |  | 16.0 | mg/kg | 4 | 4100831 | AC | 08-Oct-24 | 4500-Cl-B |  |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |

|                                       |  |  |       |          |  |         |    |           |       |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 106 % | 71.5-134 |  | 4100809 | JH | 08-Oct-24 | 8021B |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |            |  |      |       |   |         |    |           |       |  |
|------------------|------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0      |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| DRO >C10-C28*    | <b>370</b> |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| EXT DRO >C28-C36 | <b>185</b> |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |

|                           |  |  |       |          |  |         |    |           |       |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 110 % | 48.2-134 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

|                               |  |  |       |          |  |         |    |           |       |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 122 % | 49.1-148 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**FS - 04 0'**  
**H246095-04 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|                 |            |  |      |       |   |         |    |           |           |  |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| <b>Chloride</b> | <b>160</b> |  | 16.0 | mg/kg | 4 | 4100831 | AC | 08-Oct-24 | 4500-Cl-B |  |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |

|                                       |  |  |       |          |  |         |    |           |       |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 105 % | 71.5-134 |  | 4100809 | JH | 08-Oct-24 | 8021B |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |            |  |      |       |   |         |    |           |       |  |
|------------------|------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0      |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| DRO >C10-C28*    | <b>294</b> |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| EXT DRO >C28-C36 | <b>144</b> |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |

|                           |  |  |        |          |  |         |    |           |       |  |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 98.7 % | 48.2-134 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

|                               |  |  |       |          |  |         |    |           |       |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 108 % | 49.1-148 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**FS - 05 0'**  
**H246095-05 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|                 |             |  |      |       |   |         |    |           |           |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| <b>Chloride</b> | <b>64.0</b> |  | 16.0 | mg/kg | 4 | 4100832 | HM | 08-Oct-24 | 4500-Cl-B |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |

|                                       |  |       |  |          |  |         |    |           |       |  |
|---------------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  | 104 % |  | 71.5-134 |  | 4100809 | JH | 08-Oct-24 | 8021B |  |
|---------------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                         |             |  |      |       |   |         |    |           |       |  |
|-------------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*             | <10.0       |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| <b>DRO &gt;C10-C28*</b> | <b>21.5</b> |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| EXT DRO >C28-C36        | <10.0       |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |

|                           |  |        |  |          |  |         |    |           |       |  |
|---------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  | 98.9 % |  | 48.2-134 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|---------------------------|--|--------|--|----------|--|---------|----|-----------|-------|--|

|                               |  |       |  |          |  |         |    |           |       |  |
|-------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  | 101 % |  | 49.1-148 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|-------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**FS - 06 0'**  
**H246095-06 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|          |      |  |      |       |   |         |    |           |           |  |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 32.0 |  | 16.0 | mg/kg | 4 | 4100832 | HM | 08-Oct-24 | 4500-Cl-B |  |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |

|                                       |  |  |       |          |  |         |    |           |       |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 107 % | 71.5-134 |  | 4100809 | JH | 08-Oct-24 | 8021B |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |       |  |      |       |   |         |    |           |       |  |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0 |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| DRO >C10-C28*    | <10.0 |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| EXT DRO >C28-C36 | <10.0 |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |

|                           |  |  |       |          |  |         |    |           |       |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 105 % | 48.2-134 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

|                               |  |  |       |          |  |         |    |           |       |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 107 % | 49.1-148 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**FS - 07 0'**  
**H246095-07 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|          |      |  |      |       |   |         |    |           |           |  |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 32.0 |  | 16.0 | mg/kg | 4 | 4100832 | HM | 08-Oct-24 | 4500-Cl-B |  |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |

|                                       |  |  |       |          |  |         |    |           |       |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 106 % | 71.5-134 |  | 4100809 | JH | 08-Oct-24 | 8021B |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |       |  |      |       |   |         |    |           |       |  |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0 |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| DRO >C10-C28*    | <10.0 |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| EXT DRO >C28-C36 | <10.0 |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |

|                           |  |  |        |          |  |         |    |           |       |  |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 98.8 % | 48.2-134 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

|                               |  |  |        |          |  |         |    |           |       |  |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 99.4 % | 49.1-148 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|-------------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**FS - 08 0'**  
**H246095-08 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|                 |             |  |      |       |   |         |    |           |           |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| <b>Chloride</b> | <b>16.0</b> |  | 16.0 | mg/kg | 4 | 4100832 | HM | 08-Oct-24 | 4500-Cl-B |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |

|                                       |  |  |       |          |  |         |    |           |       |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 107 % | 71.5-134 |  | 4100809 | JH | 08-Oct-24 | 8021B |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |             |  |      |       |   |         |    |           |       |  |
|------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0       |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| DRO >C10-C28*    | <b>128</b>  |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| EXT DRO >C28-C36 | <b>55.3</b> |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |

|                           |  |  |        |          |  |         |    |           |       |  |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 98.1 % | 48.2-134 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|---------------------------|--|--|--------|----------|--|---------|----|-----------|-------|--|

|                               |  |  |       |          |  |         |    |           |       |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 104 % | 49.1-148 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**FS - 09 0'**  
**H246095-09 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|          |      |  |      |       |   |         |    |           |           |  |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 32.0 |  | 16.0 | mg/kg | 4 | 4100832 | HM | 08-Oct-24 | 4500-Cl-B |  |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |

|                                       |  |  |       |          |  |         |    |           |       |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 106 % | 71.5-134 |  | 4100809 | JH | 08-Oct-24 | 8021B |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |       |  |      |       |   |         |    |           |       |  |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0 |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| DRO >C10-C28*    | <10.0 |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| EXT DRO >C28-C36 | <10.0 |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |

|                           |  |  |       |          |  |         |    |           |       |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 116 % | 48.2-134 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

|                               |  |  |       |          |  |         |    |           |       |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 117 % | 49.1-148 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**FS - 10 0'**  
**H246095-10 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|                 |             |  |      |       |   |         |    |           |           |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| <b>Chloride</b> | <b>32.0</b> |  | 16.0 | mg/kg | 4 | 4100832 | HM | 08-Oct-24 | 4500-Cl-B |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |

|                                       |  |       |          |  |         |    |           |       |  |
|---------------------------------------|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  | 106 % | 71.5-134 |  | 4100809 | JH | 08-Oct-24 | 8021B |  |
|---------------------------------------|--|-------|----------|--|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID****S-06**

|                  |             |  |      |       |   |         |    |           |       |  |
|------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <50.0       |  | 50.0 | mg/kg | 5 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| DRO >C10-C28*    | <b>3160</b> |  | 50.0 | mg/kg | 5 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| EXT DRO >C28-C36 | <b>1210</b> |  | 50.0 | mg/kg | 5 | 4100815 | ms | 08-Oct-24 | 8015B |  |

|                           |  |       |          |  |         |    |           |       |  |
|---------------------------|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  | 119 % | 48.2-134 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|---------------------------|--|-------|----------|--|---------|----|-----------|-------|--|

|                               |  |       |          |  |         |    |           |       |  |
|-------------------------------|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  | 177 % | 49.1-148 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|-------------------------------|--|-------|----------|--|---------|----|-----------|-------|--|

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**FS - 11 0'**  
**H246095-11 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|                 |             |  |      |       |   |         |    |           |           |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| <b>Chloride</b> | <b>32.0</b> |  | 16.0 | mg/kg | 4 | 4100832 | HM | 08-Oct-24 | 4500-Cl-B |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 4100809 | JH | 08-Oct-24 | 8021B |  |

|                                       |  |       |  |          |  |         |    |           |       |  |
|---------------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  | 106 % |  | 71.5-134 |  | 4100809 | JH | 08-Oct-24 | 8021B |  |
|---------------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID****S-06**

|                            |             |  |      |       |   |         |    |           |       |  |
|----------------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*                | <50.0       |  | 50.0 | mg/kg | 5 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| <b>DRO &gt;C10-C28*</b>    | <b>9020</b> |  | 50.0 | mg/kg | 5 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| <b>EXT DRO &gt;C28-C36</b> | <b>3300</b> |  | 50.0 | mg/kg | 5 | 4100815 | ms | 08-Oct-24 | 8015B |  |

|                           |  |       |  |          |  |         |    |           |       |  |
|---------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  | 122 % |  | 48.2-134 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|---------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|

|                               |  |       |  |          |  |         |    |           |       |  |
|-------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  | 211 % |  | 49.1-148 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|-------------------------------|--|-------|--|----------|--|---------|----|-----------|-------|--|

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**FS - 12 0'**  
**H246095-12 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|                 |             |  |      |       |   |         |    |           |           |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| <b>Chloride</b> | <b>64.0</b> |  | 16.0 | mg/kg | 4 | 4100832 | HM | 08-Oct-24 | 4500-Cl-B |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021****S-04**

|                       |             |  |       |       |    |         |    |           |       |        |
|-----------------------|-------------|--|-------|-------|----|---------|----|-----------|-------|--------|
| Benzene*              | <0.050      |  | 0.050 | mg/kg | 50 | 4100809 | JH | 09-Oct-24 | 8021B |        |
| Toluene*              | <0.050      |  | 0.050 | mg/kg | 50 | 4100809 | JH | 09-Oct-24 | 8021B |        |
| Ethylbenzene*         | <0.050      |  | 0.050 | mg/kg | 50 | 4100809 | JH | 09-Oct-24 | 8021B | GC-NC  |
| <b>Total Xylenes*</b> | <b>1.18</b> |  | 0.150 | mg/kg | 50 | 4100809 | JH | 09-Oct-24 | 8021B | GC-NC1 |
| <b>Total BTEX</b>     | <b>1.18</b> |  | 0.300 | mg/kg | 50 | 4100809 | JH | 09-Oct-24 | 8021B | GC-NC1 |

Surrogate: 4-Bromofluorobenzene (PID) 149 % 71.5-134 4100809 JH 09-Oct-24 8021B

**Petroleum Hydrocarbons by GC FID****S-06**

|                            |             |  |      |       |   |         |    |           |       |  |
|----------------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| <b>GRO C6-C10*</b>         | <b>86.3</b> |  | 50.0 | mg/kg | 5 | 4100815 | ms | 09-Oct-24 | 8015B |  |
| <b>DRO &gt;C10-C28*</b>    | <b>7490</b> |  | 50.0 | mg/kg | 5 | 4100815 | ms | 09-Oct-24 | 8015B |  |
| <b>EXT DRO &gt;C28-C36</b> | <b>2220</b> |  | 50.0 | mg/kg | 5 | 4100815 | ms | 09-Oct-24 | 8015B |  |

Surrogate: 1-Chlorooctane 121 % 48.2-134 4100815 ms 09-Oct-24 8015B

Surrogate: 1-Chlorooctadecane 162 % 49.1-148 4100815 ms 09-Oct-24 8015B

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**FS - 13 0'**  
**H246095-13 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|                 |             |  |      |       |   |         |    |           |           |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| <b>Chloride</b> | <b>48.0</b> |  | 16.0 | mg/kg | 4 | 4100832 | HM | 08-Oct-24 | 4500-Cl-B |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 09-Oct-24 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 09-Oct-24 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 4100809 | JH | 09-Oct-24 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 4100809 | JH | 09-Oct-24 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 4100809 | JH | 09-Oct-24 | 8021B |  |

|                                       |  |  |       |          |  |         |    |           |       |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 106 % | 71.5-134 |  | 4100809 | JH | 09-Oct-24 | 8021B |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID****S-06**

|                            |             |  |      |       |   |         |    |           |       |  |
|----------------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*                | <50.0       |  | 50.0 | mg/kg | 5 | 4100815 | ms | 09-Oct-24 | 8015B |  |
| <b>DRO &gt;C10-C28*</b>    | <b>3550</b> |  | 50.0 | mg/kg | 5 | 4100815 | ms | 09-Oct-24 | 8015B |  |
| <b>EXT DRO &gt;C28-C36</b> | <b>1500</b> |  | 50.0 | mg/kg | 5 | 4100815 | ms | 09-Oct-24 | 8015B |  |

|                           |  |  |       |          |  |         |    |           |       |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 116 % | 48.2-134 |  | 4100815 | ms | 09-Oct-24 | 8015B |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

|                               |  |  |       |          |  |         |    |           |       |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 182 % | 49.1-148 |  | 4100815 | ms | 09-Oct-24 | 8015B |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**FS - 14 0'**  
**H246095-14 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|                 |             |  |      |       |   |         |    |           |           |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|
| <b>Chloride</b> | <b>16.0</b> |  | 16.0 | mg/kg | 4 | 4100832 | HM | 08-Oct-24 | 4500-Cl-B |  |
|-----------------|-------------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |

|                                       |  |  |       |          |  |         |    |           |       |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 102 % | 71.5-134 |  | 4100810 | JH | 09-Oct-24 | 8021B |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |            |  |      |       |   |         |    |           |       |  |
|------------------|------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0      |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| DRO >C10-C28*    | <b>338</b> |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| EXT DRO >C28-C36 | <b>165</b> |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |

|                           |  |  |       |          |  |         |    |           |       |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 105 % | 48.2-134 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

|                               |  |  |       |          |  |         |    |           |       |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 112 % | 49.1-148 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**FS - 15 0'**  
**H246095-15 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|                 |            |  |      |       |   |         |    |           |           |  |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| <b>Chloride</b> | <b>160</b> |  | 16.0 | mg/kg | 4 | 4100832 | HM | 08-Oct-24 | 4500-Cl-B |  |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |

|                                       |  |  |       |          |  |         |    |           |       |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 101 % | 71.5-134 |  | 4100810 | JH | 09-Oct-24 | 8021B |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |             |  |      |       |   |         |    |           |       |  |
|------------------|-------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0       |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| DRO >C10-C28*    | <b>1030</b> |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| EXT DRO >C28-C36 | <b>421</b>  |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |

|                           |  |  |       |          |  |         |    |           |       |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 111 % | 48.2-134 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

|                               |  |  |       |          |  |         |    |           |       |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 117 % | 49.1-148 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**FS - 16 0'**  
**H246095-16 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|                 |            |  |      |       |   |         |    |           |           |  |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|
| <b>Chloride</b> | <b>144</b> |  | 16.0 | mg/kg | 4 | 4100832 | HM | 08-Oct-24 | 4500-Cl-B |  |
|-----------------|------------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |

|                                       |  |  |        |  |          |         |    |           |       |  |
|---------------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 99.5 % |  | 71.5-134 | 4100810 | JH | 09-Oct-24 | 8021B |  |
|---------------------------------------|--|--|--------|--|----------|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |            |  |      |       |   |         |    |           |       |  |
|------------------|------------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0      |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| DRO >C10-C28*    | <b>540</b> |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| EXT DRO >C28-C36 | <b>217</b> |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |

|                           |  |  |       |  |          |         |    |           |       |  |
|---------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 109 % |  | 48.2-134 | 4100815 | ms | 08-Oct-24 | 8015B |  |
|---------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

|                               |  |  |       |  |          |         |    |           |       |  |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 124 % |  | 49.1-148 | 4100815 | ms | 08-Oct-24 | 8015B |  |
|-------------------------------|--|--|-------|--|----------|---------|----|-----------|-------|--|

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**FS - 17 0'**  
**H246095-17 (Soil)**

| Analyte | Result | MDL | Reporting Limit | Units | Dilution | Batch | Analyst | Analyzed | Method | Notes |
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|
|---------|--------|-----|-----------------|-------|----------|-------|---------|----------|--------|-------|

**Cardinal Laboratories****Inorganic Compounds**

|          |      |  |      |       |   |         |    |           |           |  |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|
| Chloride | 32.0 |  | 16.0 | mg/kg | 4 | 4100832 | HM | 08-Oct-24 | 4500-Cl-B |  |
|----------|------|--|------|-------|---|---------|----|-----------|-----------|--|

**Volatile Organic Compounds by EPA Method 8021**

|                |        |  |       |       |    |         |    |           |       |  |
|----------------|--------|--|-------|-------|----|---------|----|-----------|-------|--|
| Benzene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |
| Toluene*       | <0.050 |  | 0.050 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |
| Ethylbenzene*  | <0.050 |  | 0.050 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |
| Total Xylenes* | <0.150 |  | 0.150 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |
| Total BTEX     | <0.300 |  | 0.300 | mg/kg | 50 | 4100810 | JH | 09-Oct-24 | 8021B |  |

|                                       |  |  |       |          |  |         |    |           |       |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 4-Bromofluorobenzene (PID) |  |  | 102 % | 71.5-134 |  | 4100810 | JH | 09-Oct-24 | 8021B |  |
|---------------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

**Petroleum Hydrocarbons by GC FID**

|                  |       |  |      |       |   |         |    |           |       |  |
|------------------|-------|--|------|-------|---|---------|----|-----------|-------|--|
| GRO C6-C10*      | <10.0 |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| DRO >C10-C28*    | <10.0 |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |
| EXT DRO >C28-C36 | <10.0 |  | 10.0 | mg/kg | 1 | 4100815 | ms | 08-Oct-24 | 8015B |  |

|                           |  |  |       |          |  |         |    |           |       |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctane |  |  | 110 % | 48.2-134 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|---------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

|                               |  |  |       |          |  |         |    |           |       |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|
| Surrogate: 1-Chlorooctadecane |  |  | 113 % | 49.1-148 |  | 4100815 | ms | 08-Oct-24 | 8015B |  |
|-------------------------------|--|--|-------|----------|--|---------|----|-----------|-------|--|

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|

**Batch 4100831 - 1:4 DI Water****Blank (4100831-BLK1)**

Prepared &amp; Analyzed: 08-Oct-24

|          |    |      |       |  |  |  |  |  |  |
|----------|----|------|-------|--|--|--|--|--|--|
| Chloride | ND | 16.0 | mg/kg |  |  |  |  |  |  |
|----------|----|------|-------|--|--|--|--|--|--|

**LCS (4100831-BS1)**

Prepared &amp; Analyzed: 08-Oct-24

|          |     |      |       |     |     |        |  |  |  |
|----------|-----|------|-------|-----|-----|--------|--|--|--|
| Chloride | 416 | 16.0 | mg/kg | 400 | 104 | 80-120 |  |  |  |
|----------|-----|------|-------|-----|-----|--------|--|--|--|

**LCS Dup (4100831-BSD1)**

Prepared &amp; Analyzed: 08-Oct-24

|          |     |      |       |     |     |        |      |    |  |
|----------|-----|------|-------|-----|-----|--------|------|----|--|
| Chloride | 432 | 16.0 | mg/kg | 400 | 108 | 80-120 | 3.77 | 20 |  |
|----------|-----|------|-------|-----|-----|--------|------|----|--|

**Batch 4100832 - 1:4 DI Water****Blank (4100832-BLK1)**

Prepared &amp; Analyzed: 08-Oct-24

|          |    |      |       |  |  |  |  |  |  |
|----------|----|------|-------|--|--|--|--|--|--|
| Chloride | ND | 16.0 | mg/kg |  |  |  |  |  |  |
|----------|----|------|-------|--|--|--|--|--|--|

**LCS (4100832-BS1)**

Prepared &amp; Analyzed: 08-Oct-24

|          |     |      |       |     |     |        |  |  |  |
|----------|-----|------|-------|-----|-----|--------|--|--|--|
| Chloride | 432 | 16.0 | mg/kg | 400 | 108 | 80-120 |  |  |  |
|----------|-----|------|-------|-----|-----|--------|--|--|--|

**LCS Dup (4100832-BSD1)**

Prepared &amp; Analyzed: 08-Oct-24

|          |     |      |       |     |     |        |      |    |  |
|----------|-----|------|-------|-----|-----|--------|------|----|--|
| Chloride | 432 | 16.0 | mg/kg | 400 | 108 | 80-120 | 0.00 | 20 |  |
|----------|-----|------|-------|-----|-----|--------|------|----|--|

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 4100809 - Volatiles****Blank (4100809-BLK1)**

Prepared &amp; Analyzed: 08-Oct-24

|                                       |        |       |       |        |  |     |          |  |  |  |
|---------------------------------------|--------|-------|-------|--------|--|-----|----------|--|--|--|
| Benzene                               | ND     | 0.050 | mg/kg |        |  |     |          |  |  |  |
| Toluene                               | ND     | 0.050 | mg/kg |        |  |     |          |  |  |  |
| Ethylbenzene                          | ND     | 0.050 | mg/kg |        |  |     |          |  |  |  |
| Total Xylenes                         | ND     | 0.150 | mg/kg |        |  |     |          |  |  |  |
| Total BTEX                            | ND     | 0.300 | mg/kg |        |  |     |          |  |  |  |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0529 |       | mg/kg | 0.0500 |  | 106 | 71.5-134 |  |  |  |

**LCS (4100809-BS1)**

Prepared &amp; Analyzed: 08-Oct-24

|                                       |        |       |       |        |  |      |          |  |  |  |
|---------------------------------------|--------|-------|-------|--------|--|------|----------|--|--|--|
| Benzene                               | 1.96   | 0.050 | mg/kg | 2.00   |  | 97.9 | 82.8-130 |  |  |  |
| Toluene                               | 2.00   | 0.050 | mg/kg | 2.00   |  | 99.9 | 86-128   |  |  |  |
| Ethylbenzene                          | 2.01   | 0.050 | mg/kg | 2.00   |  | 100  | 85.9-128 |  |  |  |
| m,p-Xylene                            | 4.02   | 0.100 | mg/kg | 4.00   |  | 101  | 89-129   |  |  |  |
| o-Xylene                              | 1.96   | 0.050 | mg/kg | 2.00   |  | 98.2 | 86.1-125 |  |  |  |
| Total Xylenes                         | 5.99   | 0.150 | mg/kg | 6.00   |  | 99.8 | 88.2-128 |  |  |  |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0527 |       | mg/kg | 0.0500 |  | 105  | 71.5-134 |  |  |  |

**LCS Dup (4100809-BSD1)**

Prepared &amp; Analyzed: 08-Oct-24

|                                       |        |       |       |        |  |     |          |      |      |  |
|---------------------------------------|--------|-------|-------|--------|--|-----|----------|------|------|--|
| Benzene                               | 2.07   | 0.050 | mg/kg | 2.00   |  | 103 | 82.8-130 | 5.33 | 15.8 |  |
| Toluene                               | 2.12   | 0.050 | mg/kg | 2.00   |  | 106 | 86-128   | 5.78 | 15.9 |  |
| Ethylbenzene                          | 2.13   | 0.050 | mg/kg | 2.00   |  | 106 | 85.9-128 | 5.74 | 16   |  |
| m,p-Xylene                            | 4.28   | 0.100 | mg/kg | 4.00   |  | 107 | 89-129   | 6.14 | 16.2 |  |
| o-Xylene                              | 2.08   | 0.050 | mg/kg | 2.00   |  | 104 | 86.1-125 | 5.84 | 16.7 |  |
| Total Xylenes                         | 6.36   | 0.150 | mg/kg | 6.00   |  | 106 | 88.2-128 | 6.04 | 16.3 |  |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0529 |       | mg/kg | 0.0500 |  | 106 | 71.5-134 |      |      |  |

**Batch 4100810 - Volatiles****Blank (4100810-BLK1)**

Prepared &amp; Analyzed: 08-Oct-24

|               |    |       |       |  |  |  |  |  |  |  |
|---------------|----|-------|-------|--|--|--|--|--|--|--|
| Benzene       | ND | 0.050 | mg/kg |  |  |  |  |  |  |  |
| Toluene       | ND | 0.050 | mg/kg |  |  |  |  |  |  |  |
| Ethylbenzene  | ND | 0.050 | mg/kg |  |  |  |  |  |  |  |
| Total Xylenes | ND | 0.150 | mg/kg |  |  |  |  |  |  |  |

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 4100810 - Volatiles****Blank (4100810-BLK1)**

Prepared &amp; Analyzed: 08-Oct-24

|            |    |       |       |  |  |  |  |  |  |  |
|------------|----|-------|-------|--|--|--|--|--|--|--|
| Total BTEX | ND | 0.300 | mg/kg |  |  |  |  |  |  |  |
|------------|----|-------|-------|--|--|--|--|--|--|--|

|                                       |        |  |       |        |  |     |          |  |  |  |
|---------------------------------------|--------|--|-------|--------|--|-----|----------|--|--|--|
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0503 |  | mg/kg | 0.0500 |  | 101 | 71.5-134 |  |  |  |
|---------------------------------------|--------|--|-------|--------|--|-----|----------|--|--|--|

**LCS (4100810-BS1)**

Prepared &amp; Analyzed: 08-Oct-24

|         |      |       |       |      |  |     |          |  |  |  |
|---------|------|-------|-------|------|--|-----|----------|--|--|--|
| Benzene | 2.24 | 0.050 | mg/kg | 2.00 |  | 112 | 82.8-130 |  |  |  |
|---------|------|-------|-------|------|--|-----|----------|--|--|--|

|         |      |       |       |      |  |     |        |  |  |  |
|---------|------|-------|-------|------|--|-----|--------|--|--|--|
| Toluene | 2.14 | 0.050 | mg/kg | 2.00 |  | 107 | 86-128 |  |  |  |
|---------|------|-------|-------|------|--|-----|--------|--|--|--|

|              |      |       |       |      |  |     |          |  |  |  |
|--------------|------|-------|-------|------|--|-----|----------|--|--|--|
| Ethylbenzene | 2.12 | 0.050 | mg/kg | 2.00 |  | 106 | 85.9-128 |  |  |  |
|--------------|------|-------|-------|------|--|-----|----------|--|--|--|

|            |      |       |       |      |  |     |        |  |  |  |
|------------|------|-------|-------|------|--|-----|--------|--|--|--|
| m,p-Xylene | 4.25 | 0.100 | mg/kg | 4.00 |  | 106 | 89-129 |  |  |  |
|------------|------|-------|-------|------|--|-----|--------|--|--|--|

|          |      |       |       |      |  |     |          |  |  |  |
|----------|------|-------|-------|------|--|-----|----------|--|--|--|
| o-Xylene | 2.07 | 0.050 | mg/kg | 2.00 |  | 103 | 86.1-125 |  |  |  |
|----------|------|-------|-------|------|--|-----|----------|--|--|--|

|               |      |       |       |      |  |     |          |  |  |  |
|---------------|------|-------|-------|------|--|-----|----------|--|--|--|
| Total Xylenes | 6.32 | 0.150 | mg/kg | 6.00 |  | 105 | 88.2-128 |  |  |  |
|---------------|------|-------|-------|------|--|-----|----------|--|--|--|

|                                       |        |  |       |        |  |     |          |  |  |  |
|---------------------------------------|--------|--|-------|--------|--|-----|----------|--|--|--|
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0506 |  | mg/kg | 0.0500 |  | 101 | 71.5-134 |  |  |  |
|---------------------------------------|--------|--|-------|--------|--|-----|----------|--|--|--|

**LCS Dup (4100810-BSD1)**

Prepared &amp; Analyzed: 08-Oct-24

|         |      |       |       |      |  |     |          |      |      |  |
|---------|------|-------|-------|------|--|-----|----------|------|------|--|
| Benzene | 2.18 | 0.050 | mg/kg | 2.00 |  | 109 | 82.8-130 | 2.54 | 15.8 |  |
|---------|------|-------|-------|------|--|-----|----------|------|------|--|

|         |      |       |       |      |  |     |        |      |      |  |
|---------|------|-------|-------|------|--|-----|--------|------|------|--|
| Toluene | 2.07 | 0.050 | mg/kg | 2.00 |  | 103 | 86-128 | 3.27 | 15.9 |  |
|---------|------|-------|-------|------|--|-----|--------|------|------|--|

|              |      |       |       |      |  |     |          |      |    |  |
|--------------|------|-------|-------|------|--|-----|----------|------|----|--|
| Ethylbenzene | 2.05 | 0.050 | mg/kg | 2.00 |  | 102 | 85.9-128 | 3.55 | 16 |  |
|--------------|------|-------|-------|------|--|-----|----------|------|----|--|

|            |      |       |       |      |  |     |        |      |      |  |
|------------|------|-------|-------|------|--|-----|--------|------|------|--|
| m,p-Xylene | 4.10 | 0.100 | mg/kg | 4.00 |  | 102 | 89-129 | 3.66 | 16.2 |  |
|------------|------|-------|-------|------|--|-----|--------|------|------|--|

|          |      |       |       |      |  |      |          |      |      |  |
|----------|------|-------|-------|------|--|------|----------|------|------|--|
| o-Xylene | 2.00 | 0.050 | mg/kg | 2.00 |  | 99.9 | 86.1-125 | 3.38 | 16.7 |  |
|----------|------|-------|-------|------|--|------|----------|------|------|--|

|               |      |       |       |      |  |     |          |      |      |  |
|---------------|------|-------|-------|------|--|-----|----------|------|------|--|
| Total Xylenes | 6.10 | 0.150 | mg/kg | 6.00 |  | 102 | 88.2-128 | 3.57 | 16.3 |  |
|---------------|------|-------|-------|------|--|-----|----------|------|------|--|

|                                       |        |  |       |        |  |     |          |  |  |  |
|---------------------------------------|--------|--|-------|--------|--|-----|----------|--|--|--|
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0510 |  | mg/kg | 0.0500 |  | 102 | 71.5-134 |  |  |  |
|---------------------------------------|--------|--|-------|--------|--|-----|----------|--|--|--|

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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  
P. O. BOX 5753  
HOBBS NM, 88240

Project: CARBON VALLEY 26-1  
Project Number: NONE GIVEN  
Project Manager: DIMITRY NIKANOROV  
Fax To: (575) 391-8484

Reported:  
18-Oct-24 16:58

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch 4100815 - General Prep - Organics****Blank (4100815-BLK1)**

Prepared &amp; Analyzed: 08-Oct-24

|                               |      |      |       |      |  |      |          |  |  |  |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|--|
| GRO C6-C10                    | ND   | 10.0 | mg/kg |      |  |      |          |  |  |  |
| DRO >C10-C28                  | ND   | 10.0 | mg/kg |      |  |      |          |  |  |  |
| EXT DRO >C28-C36              | ND   | 10.0 | mg/kg |      |  |      |          |  |  |  |
| Surrogate: 1-Chlorooctane     | 44.9 |      | mg/kg | 50.0 |  | 89.8 | 48.2-134 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 44.6 |      | mg/kg | 50.0 |  | 89.2 | 49.1-148 |  |  |  |

**LCS (4100815-BS1)**

Prepared &amp; Analyzed: 08-Oct-24

|                               |      |      |       |      |  |      |          |  |  |  |
|-------------------------------|------|------|-------|------|--|------|----------|--|--|--|
| GRO C6-C10                    | 221  | 10.0 | mg/kg | 200  |  | 111  | 66.4-123 |  |  |  |
| DRO >C10-C28                  | 212  | 10.0 | mg/kg | 200  |  | 106  | 66.5-118 |  |  |  |
| Total TPH C6-C28              | 433  | 10.0 | mg/kg | 400  |  | 108  | 77.6-123 |  |  |  |
| Surrogate: 1-Chlorooctane     | 49.9 |      | mg/kg | 50.0 |  | 99.9 | 48.2-134 |  |  |  |
| Surrogate: 1-Chlorooctadecane | 49.1 |      | mg/kg | 50.0 |  | 98.2 | 49.1-148 |  |  |  |

**LCS Dup (4100815-BS1)**

Prepared &amp; Analyzed: 08-Oct-24

|                               |      |      |       |      |  |      |          |      |      |  |
|-------------------------------|------|------|-------|------|--|------|----------|------|------|--|
| GRO C6-C10                    | 219  | 10.0 | mg/kg | 200  |  | 109  | 66.4-123 | 1.21 | 17.7 |  |
| DRO >C10-C28                  | 209  | 10.0 | mg/kg | 200  |  | 104  | 66.5-118 | 1.46 | 21   |  |
| Total TPH C6-C28              | 427  | 10.0 | mg/kg | 400  |  | 107  | 77.6-123 | 1.33 | 18.5 |  |
| Surrogate: 1-Chlorooctane     | 50.3 |      | mg/kg | 50.0 |  | 101  | 48.2-134 |      |      |  |
| Surrogate: 1-Chlorooctadecane | 49.3 |      | mg/kg | 50.0 |  | 98.7 | 49.1-148 |      |      |  |

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

|        |  |
|--------|--|
| S-06   | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.         |
| S-04   | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.   |
| 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<br>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> <u>McNabb Partners</u>   |                       | <b>P.O. #:</b>   |                 | <b>ANALYSIS REQUEST</b>                        |  |  |  |                 |  |
| <b>Project Manager:</b> <u>Dimitri Nikanorov</u>  |                       | <b>Company:</b> <u>Murchison</u>   |                 |  |  |  |  |                 |  |
| <b>Address:</b> <u>On File</u>  |                       | <b>Attn:</b> <u>Greg Barnes</u>  |                 |  |  |  |  |                 |  |
| <b>City:</b>  | <b>State:</b>         | <b>Zip:</b>  | <b>Address:</b> |  |  |  |  |                 |  |
| <b>Phone #:</b>   | <b>Fax #:</b>         | <b>City:</b>   | <b>State:</b>   | <b>Zip:</b>                                    |  |  |  |                 |  |
| <b>Project #:</b>   | <b>Project Owner:</b> | <b>City:</b>   | <b>State:</b>   | <b>Zip:</b>                                    |  |  |  |                 |  |
| <b>Project Name:</b> <u>Carbon Valley 20-1</u>  |                       | <b>City:</b>   | <b>State:</b>   | <b>Zip:</b>                                    |  |  |  |                 |  |
| <b>Project Location:</b> <u>Eddy County</u>   |                       | <b>Phone #:</b>  | <b>State:</b>   | <b>Zip:</b>                                    |  |  |  |                 |  |
| <b>Sampler Name:</b> <u>Anna Escobedo</u>   |                       | <b>Fax #:</b>  |                 |  |  |  |  |                 |  |
| <b>FOR LAB USE ONLY</b>   |                       |  |                 |  |  |  |  |                 |  |
| <b>Lab I.D.</b>   | <b>Sample I.D.</b>    | <b>(G)RAB OR (C)OMP.</b>   |                 | <b>MATRIX</b>                                  |  | <b>PRESERV</b>   |  | <b>SAMPLING</b> |  |
| <u>A241095</u>  | <u>* O *</u>          |  |                 | <input checked="" type="checkbox"/> SOIL       |  |  |  |                 |  |
| <u>1 FS-01</u>  |                       |  |                 | <input checked="" type="checkbox"/> OIL        |  |  |  |                 |  |
| <u>2 FS-02</u>  |                       |  |                 | <input checked="" type="checkbox"/> SLUDGE     |  |  |  |                 |  |
| <u>3 FS-03</u>  |                       |  |                 | <input checked="" type="checkbox"/> OTHER :    |  |  |  |                 |  |
| <u>4 FS-04</u>  |                       |  |                 | <input checked="" type="checkbox"/> ACID/BASE: |  |  |  |                 |  |
| <u>5 FS-05</u>  |                       |  |                 | <input checked="" type="checkbox"/> ICE / COOL |  |  |  |                 |  |
| <u>6 FS-06</u>  |                       |  |                 | <input checked="" type="checkbox"/> OTHER :    |  |  |  |                 |  |
| <u>7 FS-07</u>  |                       |  |                 | <input checked="" type="checkbox"/> DATE       |  |  |  |                 |  |
| <u>8 FS-08</u>  |                       |  |                 | <input checked="" type="checkbox"/> TIME       |  |  |  |                 |  |
| <u>9 FS-09</u>  |                       |  |                 |  |  |  |  |                 |  |
| <u>10 FS-10</u>   |                       |  |                 |  |  |  |  |                 |  |
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| <b>Relinquished By:</b> <u>[Signature]</u>  |                       | <b>Date:</b> <u>10/05/04</u>   |                 | <b>Received By:</b> <u>[Signature]</u>         |  | <b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: |  |                 |  |
| <b>Relinquished By:</b> <u>[Signature]</u>  |                       | <b>Date:</b> <u>10/05/04</u>   |                 | <b>Received By:</b> <u>[Signature]</u>         |  | <b>All Results are emailed. Please provide Email address:</b>  |  |                 |  |
| <b>Time:</b> <u>10:40 am</u>  |                       | <b>Time:</b> <u>10:50</u>  |                 | <b>Time:</b> <u>10:50</u>                      |  | <b>Remarks:</b> <u>* Customer requested Depts changes. 10/17/24</u>  |  |                 |  |
| <b>Observed Temp. °C:</b> <u>5.9</u>  |                       | <b>Sample Condition:</b> <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact |                 | <b>CHECKED BY:</b> <u>[Signature]</u>          |  | <b>Turnaround Time:</b> <u>Standard</u>  |  |                 |  |
| <b>Corrected Temp. °C:</b> <u>5.3</u>   |                       | <b>Sample Condition:</b> <input type="checkbox"/> Cool <input type="checkbox"/> Intact                       |                 | <b>Thermometer ID #140</b>                     |  | <b>Bacteria (only) Sample Condition:</b>   |  |                 |  |
|   |                       | <b>Correction Factor -0.5°C</b>  |                 | <b>Correction Factor -0.5°C</b>                |  | <b>Observed Temp. °C:</b>  |  |                 |  |
|   |                       |  |                 |  |  | <b>Corrected Temp. °C:</b>   |  |                 |  |





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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

|  |   |  |  |
|--|---|--|--|
| <b>Company Name:</b> <u>McKibbe Partners</u><br><b>Project Manager:</b> <u>Dimitri Nikanorov</u><br><b>Address:</b> <u>On File</u><br><b>City:</b> _____ <b>State:</b> _____ <b>Zip:</b> _____<br><b>Phone #:</b> _____ <b>Fax #:</b> _____<br><b>Project #:</b> _____ <b>Project Owner:</b> _____<br><b>Project Name:</b> <u>Calson Valley</u> <u>Q6-1</u><br><b>Project Location:</b> <u>Eddy County</u><br><b>Sampler Name:</b> <u>Anna Escobedo</u>  |   | <b>P.O. #:</b> _____<br><b>Company:</b> <u>McKibbe</u><br><b>Attn:</b> <u>Greg Reams</u><br><b>Address:</b> _____<br><b>City:</b> _____ <b>State:</b> _____ <b>Zip:</b> _____<br><b>Phone #:</b> _____ <b>Fax #:</b> _____ |  |
| <b>FOR LAB USE ONLY</b>  |   | <b>BILL TO</b>   |  |
| <b>Lab I.D.</b><br><br><b>Sample I.D.</b><br><br><u>H246095</u><br><u>FS-11</u><br><u>FS-10</u><br><u>FS-13</u><br><u>FS-14</u><br><u>FS-15</u><br><u>FS-16</u><br><u>FS-17</u>  | <b>(G)RAB OR (C)OMP.</b><br><input checked="" type="checkbox"/> (G)RAB <input type="checkbox"/> (C)OMP            | <b># CONTAINERS</b><br>_____   | <b>ANALYSIS REQUEST</b>  |
|  | <b>MATRIX</b><br>GROUNDWATER _____<br>WASTEWATER _____<br>SOIL _____<br>OIL _____<br>SLUDGE _____<br>OTHER: _____ | <b>PRESERV</b><br>ACID/BASE: _____<br>ICE / COOL _____<br>OTHER: _____   |  |
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| <b>Relinquished By:</b> <u>[Signature]</u><br><b>Date:</b> <u>10/08/24</u><br><b>Time:</b> <u>10:45 AM</u>   | <b>Received By:</b> <u>[Signature]</u><br><b>Date:</b> <u>10/08/24</u><br><b>Time:</b> <u>10:50</u>               | <b>REMARKS:</b><br><u>Dimitri McKibbe Partners.com</u><br><u>*Customer requested DUPHYS</u><br><u>changes to 10/17/24</u>  |  |
| <b>Delivered By: (Circle One)</b><br>Sampler - UPS - Bus - Other: _____  | <b>Observed Temp. °C</b> <u>5.9</u><br><b>Corrected Temp. °C</b> <u>5.3</u>                                       | <b>Sample Condition</b><br>Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Yes <input type="checkbox"/> No <input type="checkbox"/> No  | <b>CHECKED BY:</b> <u>[Signature]</u><br><b>Turnaround Time:</b> _____<br><b>Thermometer ID #140</b> <u>48442</u><br><b>Correction Factor -0.6°C</b> <u>RUSH</u><br><b>Bacteria (only) Sample Condition</b><br>Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Observed Temp. °C _____<br>Corrected Temp. °C _____ |

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



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---

October 10, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: CARBON VALLEY 26-1

Enclosed are the results of analyses for samples received by the laboratory on 10/08/24 10:50.

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:         | 10/08/2024              | Sampling Date:      | 10/07/2024     |
| Reported:         | 10/10/2024              | Sampling Type:      | Soil           |
| Project Name:     | CARBON VALLEY 26-1      | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN               | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO, NM |                     |                |

**Sample ID: G - 1 (0.5') (H246091-01)**

| 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           | 10/09/2024 | ND              | 2.18 | 109        | 2.00          | 2.62 |           |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.28 | 114        | 2.00          | 2.51 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.33 | 117        | 2.00          | 2.11 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 7.06 | 118        | 6.00          | 1.21 | GC-NC     |
| Total BTEX     | <0.300 | 0.300           | 10/09/2024 | ND              |      |            |               |      | GC-NC     |

Surrogate: 4-Bromofluorobenzene (PID) 257 % 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            | 10/08/2024 | ND              | 432 | 108        | 400           | 0.00 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               | S-06  |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | 269    | 50.0            | 10/09/2024 | ND              | 211 | 106        | 200           | 0.509 |           |
| DRO >C10-C28*    | 22400  | 50.0            | 10/09/2024 | ND              | 192 | 95.9       | 200           | 1.13  |           |
| EXT DRO >C28-C36 | 5730   | 50.0            | 10/09/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 132 % 48.2-134

Surrogate: 1-Chlorooctadecane 539 % 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: 10/08/2024  
 Reported: 10/10/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NOT GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: G - 1 (2') (H246091-02)**

| 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           | 10/09/2024 | ND              | 2.18 | 109        | 2.00          | 2.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.28 | 114        | 2.00          | 2.51 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.33 | 117        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 7.06 | 118        | 6.00          | 1.21 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/09/2024 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 448    | 16.0            | 10/08/2024 | 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            | 10/09/2024 | ND              | 211 | 106        | 200           | 0.509 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/09/2024 | ND              | 192 | 95.9       | 200           | 1.13  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/09/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 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: 10/08/2024  
 Reported: 10/10/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NOT GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: G - 1 (4') (H246091-03)**

| 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           | 10/09/2024 | ND              | 2.18 | 109        | 2.00          | 2.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.28 | 114        | 2.00          | 2.51 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.33 | 117        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 7.06 | 118        | 6.00          | 1.21 |           |  |
| Total BTEx     | <0.300 | 0.300           | 10/09/2024 | 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             | 48.0   | 16.0            | 10/08/2024 | 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            | 10/09/2024 | ND              | 211 | 106        | 200           | 0.509 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/09/2024 | ND              | 192 | 95.9       | 200           | 1.13  |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/09/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 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: 10/08/2024  
 Reported: 10/10/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NOT GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: G - 2 (0.5') (H246091-04)**

| 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           | 10/09/2024 | ND              | 2.18 | 109        | 2.00          | 2.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.28 | 114        | 2.00          | 2.51 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.33 | 117        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 7.06 | 118        | 6.00          | 1.21 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/09/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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            | 10/08/2024 | 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            | 10/09/2024 | ND              | 211 | 106        | 200           | 0.509 |           |
| DRO >C10-C28*    | 468    | 10.0            | 10/09/2024 | ND              | 192 | 95.9       | 200           | 1.13  |           |
| EXT DRO >C28-C36 | 237    | 10.0            | 10/09/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 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:         | 10/08/2024              | Sampling Date:      | 10/07/2024     |
| Reported:         | 10/10/2024              | Sampling Type:      | Soil           |
| Project Name:     | CARBON VALLEY 26-1      | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN               | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO, NM |                     |                |

**Sample ID: G - 2 (2') (H246091-05)**

| 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           | 10/09/2024 | ND              | 2.18 | 109        | 2.00          | 2.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.28 | 114        | 2.00          | 2.51 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.33 | 117        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 7.06 | 118        | 6.00          | 1.21 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/09/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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            | 10/08/2024 | 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            | 10/09/2024 | ND              | 211 | 106        | 200           | 0.509 |           |
| DRO >C10-C28*    | 2420   | 10.0            | 10/09/2024 | ND              | 192 | 95.9       | 200           | 1.13  |           |
| EXT DRO >C28-C36 | 762    | 10.0            | 10/09/2024 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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: 10/08/2024  
 Reported: 10/10/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NOT GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: G - 2 (4') (H246091-06)**

| 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           | 10/09/2024 | ND              | 2.18 | 109        | 2.00          | 2.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.28 | 114        | 2.00          | 2.51 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.33 | 117        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 7.06 | 118        | 6.00          | 1.21 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/09/2024 | 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             | 192    | 16.0            | 10/08/2024 | 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            | 10/08/2024 | ND              | 216 | 108        | 200           | 1.28 |           |
| DRO >C10-C28*    | 38.5   | 10.0            | 10/08/2024 | ND              | 219 | 109        | 200           | 3.05 |           |
| EXT DRO >C28-C36 | 12.3   | 10.0            | 10/08/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 92.7 % 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: 10/08/2024  
 Reported: 10/10/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NOT GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: G - 3 (0.5') (H246091-07)**

| 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           | 10/09/2024 | ND              | 2.18 | 109        | 2.00          | 2.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.28 | 114        | 2.00          | 2.51 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.33 | 117        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 7.06 | 118        | 6.00          | 1.21 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/09/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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            | 10/08/2024 | 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            | 10/08/2024 | ND              | 216 | 108        | 200           | 1.28 |           |
| DRO >C10-C28*    | 368    | 10.0            | 10/08/2024 | ND              | 219 | 109        | 200           | 3.05 |           |
| EXT DRO >C28-C36 | 315    | 10.0            | 10/08/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 10/08/2024  
 Reported: 10/10/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NOT GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: G - 3 (2') (H246091-08)**

| 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           | 10/09/2024 | ND              | 2.18 | 109        | 2.00          | 2.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.28 | 114        | 2.00          | 2.51 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.33 | 117        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 7.06 | 118        | 6.00          | 1.21 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/09/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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             | 480    | 16.0            | 10/09/2024 | 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            | 10/08/2024 | ND              | 216 | 108        | 200           | 1.28 |           |
| DRO >C10-C28*    | 11.7   | 10.0            | 10/08/2024 | ND              | 219 | 109        | 200           | 3.05 |           |
| EXT DRO >C28-C36 | 17.8   | 10.0            | 10/08/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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: 10/08/2024  
 Reported: 10/10/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NOT GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: G - 3 (4') (H246091-09)**

| 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           | 10/09/2024 | ND              | 2.18 | 109        | 2.00          | 2.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.28 | 114        | 2.00          | 2.51 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.33 | 117        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 7.06 | 118        | 6.00          | 1.21 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/09/2024 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 48.0   | 16.0            | 10/09/2024 | 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            | 10/08/2024 | ND              | 216 | 108        | 200           | 1.28 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/08/2024 | ND              | 219 | 109        | 200           | 3.05 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/08/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 107 % 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: 10/08/2024  
 Reported: 10/10/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NOT GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: G - 4 (0.5') (H246091-10)**

| 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           | 10/09/2024 | ND              | 2.18 | 109        | 2.00          | 2.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.28 | 114        | 2.00          | 2.51 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.33 | 117        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 7.06 | 118        | 6.00          | 1.21 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/09/2024 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 64.0   | 16.0            | 10/09/2024 | 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            | 10/08/2024 | ND              | 216 | 108        | 200           | 1.28 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/08/2024 | ND              | 219 | 109        | 200           | 3.05 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/08/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 10/08/2024  
 Reported: 10/10/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NOT GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: G - 5 (0.5') (H246091-12)**

| 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           | 10/09/2024 | ND              | 2.18 | 109        | 2.00          | 2.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.28 | 114        | 2.00          | 2.51 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.33 | 117        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 7.06 | 118        | 6.00          | 1.21 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/09/2024 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 48.0   | 16.0            | 10/09/2024 | ND              | 432 | 108        | 400           | 3.77 |           |  |

| 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*      | <10.0  | 10.0            | 10/08/2024 | ND              | 216 | 108        | 200           | 1.28 |           |
| DRO >C10-C28*    | 7050   | 10.0            | 10/08/2024 | ND              | 219 | 109        | 200           | 3.05 |           |
| EXT DRO >C28-C36 | 2700   | 10.0            | 10/08/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 154 % 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: 10/08/2024  
 Reported: 10/10/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NOT GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: G - 5 (2') (H246091-13)**

| 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           | 10/09/2024 | ND              | 2.18 | 109        | 2.00          | 2.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.28 | 114        | 2.00          | 2.51 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.33 | 117        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 7.06 | 118        | 6.00          | 1.21 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/09/2024 | ND              |      |            |               |      |           |  |

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

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 48.0   | 16.0            | 10/09/2024 | 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            | 10/08/2024 | ND              | 216 | 108        | 200           | 1.28 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/08/2024 | ND              | 219 | 109        | 200           | 3.05 |           |
| EXT DRO >C28-C36 | 12.7   | 10.0            | 10/08/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 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: 10/08/2024  
 Reported: 10/10/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NOT GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/07/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: G - 6 (2') (H246091-14)**

| 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           | 10/09/2024 | ND              | 2.18 | 109        | 2.00          | 2.62 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.28 | 114        | 2.00          | 2.51 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.33 | 117        | 2.00          | 2.11 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 7.06 | 118        | 6.00          | 1.21 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/09/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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             | 544    | 16.0            | 10/09/2024 | 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            | 10/08/2024 | ND              | 216 | 108        | 200           | 1.28 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/08/2024 | ND              | 219 | 109        | 200           | 3.05 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/08/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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### Notes and Definitions

|       |   |
|-------|---|
| S-06  | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.                                  |
| S-04  | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.  |
| QR-03 | The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. |
| 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<br>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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

|  |                    |                                       |                  |                         |     |                 |      |  |
|--|--------------------|---------------------------------------|------------------|-------------------------|-----|-----------------|------|--|
| <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 Boaris              |                  |                         |     |                 |      |  |
| <b>State:</b> NM <b>Zip:</b> 88240                   |                    | <b>Address:</b> 5325 Sierra Vista Dr. |                  |                         |     |                 |      |  |
| <b>Phone #:</b> 917-497-6890 <b>Fax #:</b>           |                    | <b>City:</b> Carlsbad                 |                  |                         |     |                 |      |  |
| <b>Project #:</b>                                    |                    | <b>State:</b> NM <b>Zip:</b> 88220    |                  |                         |     |                 |      |  |
| <b>Project Name:</b> Carbon Valley 26-1              |                    | <b>Phone #:</b> 575-706-0667          |                  |                         |     |                 |      |  |
| <b>Project Location:</b> Eddy Co. NM                 |                    | <b>Fax #:</b>                         |                  |                         |     |                 |      |  |
| <b>Sampler Name:</b> Dmitry Nikanorov Auden Escalada |                    |                                       |                  |                         |     |                 |      |  |
| <small>FOR LAB USE ONLY</small>                      |                    |                                       |                  |                         |     |                 |      |  |
| <b>Lab I.D.</b>                                      | <b>Sample I.D.</b> | <b>MA TRIX</b>                        |                  | <b>PRESERV</b>          |     | <b>SAMPLING</b> |      |  |
|  |                    |                                       |                  |                         |     |                 |      |  |
| H246091<br>1 3345478910                              | G-1 (0.5')         | G 1                                   | (G)RAB OR (C)OMP |                         |     |                 |      |  |
|  | G-1 (2')           | G 1                                   | # CONTAINERS     |                         |     |                 |      |  |
|  | G-1 (4')           | G 1                                   | GROUNDWATER      |                         |     |                 |      |  |
|  | G-2 (0.5')         | G 1                                   | WASTEWATER       |                         |     |                 |      |  |
|  | G-2 (2')           | G 1                                   | SOIL             |                         |     |                 |      |  |
|  | G-2 (4')           | G 1                                   | OIL              |                         |     |                 |      |  |
|  | G-3 (0.5')         | G 1                                   | SLUDGE           |                         |     |                 |      |  |
|  | G-3 (2')           | G 1                                   | OTHER            |                         |     |                 |      |  |
|  | G-3 (4')           | G 1                                   | ACID/BASE:       |                         |     |                 |      |  |
|  | G-4 (0.5')         | G 1                                   | ICE / COOL       |                         |     |                 |      |  |
|  |                    |                                       | OTHER            |                         |     |                 |      |  |
|  |                    |                                       | DATE             | TIME                    | TPH | Chloride        | BTEX |  |
|  |                    |                                       | 10/7/24          | 10:40                   | X   | X               | X    |  |
|  |                    |                                       | 10/7/24          | 10:45                   | X   | X               | X    |  |
|  |                    |                                       | 10/7/24          | 10:50                   | X   | X               | X    |  |
|  |                    |                                       | 10/7/24          | 10:55                   | X   | X               | X    |  |
|  |                    |                                       | 10/7/24          | 11:00                   | X   | X               | X    |  |
|  |                    |                                       | 10/7/24          | 11:05                   | X   | X               | X    |  |
|  |                    |                                       | 10/7/24          | 11:10                   | X   | X               | X    |  |
|  |                    |                                       | 10/7/24          | 11:15                   | X   | X               | X    |  |
|  |                    |                                       | 10/7/24          | 11:20                   | X   | X               | X    |  |
|  |                    |                                       | 10/7/24          | 11:25                   | X   | X               | X    |  |

**Relinquished By:** [Signature] **Date:** 10-8-24 **Received By:** [Signature] **Date:** 10-8-24

**Relinquished By:** [Signature] **Date:** 10-8-24 **Received By:** [Signature] **Date:** 10-8-24

**Delivered By:** (Circle One) **Observed Temp. °C:** 5.9 **Sample Condition:** Cool Intact **Checked By:** [Signature] **Time:** 10:50 **Thermometer ID #140** **Correction Factor -0.5°C** **Standard:** ☒ **Bacteria (only) Sample Condition:** Cool Intact **Observed Temp. °C:** **Corrected Temp. °C:**

**Remarks:**

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





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

|  |  |                          |  |   |  |                          |  |   |  |  |  |  |  |                         |  |           |  |
|--|--|--------------------------|--|---|--|--------------------------|--|---|--|--|--|--|--|-------------------------|--|-----------|--|
| <b>Company Name:</b> McNabb Partners<br><b>Project Manager:</b> Dmitry Nikanorov<br><b>Address:</b> 5014 W Carlsbad Hwy<br><b>City:</b> Hobbs<br><b>Phone #:</b> 917-497-6890<br><b>Project #:</b><br><b>Project Name:</b> Carbon Valley 26-1<br><b>Project Location:</b> Eddy Co, NM<br><b>Sampler Name:</b> Dmitry Nikanorov, Auden Escalada |  |                          |  | <b>P.O. #:</b><br><b>Company:</b> Murchison Oil & Gas<br><b>Attn:</b> Greg Boans<br><b>Address:</b> 5325 Sierra Vista Dr.<br><b>City:</b> Carlsbad<br><b>State:</b> NM <b>Zip:</b> 88220<br><b>Phone #:</b> 575-706-0667<br><b>Fax #:</b> |  |                          |  | <b>BILL TO</b><br><br><b>ANALYSIS REQUEST</b> |  |  |  |  |  |                         |  |           |  |
| <b>FOR LAB USE ONLY</b>  |  |                          |  |   |  |                          |  |   |  |  |  |  |  |                         |  |           |  |
| <b>Lab I.D.</b>  |  | <b>Sample I.D.</b>       |  | <b>FOR LAB USE ONLY</b>   |  | <b>Matrix</b>            |  | <b>Preserv</b>                                |  | <b>Sampling</b>                                  |  |  |  |                         |  |           |  |
| 11<br>12<br>13<br>14   |  | G-4<br>G-5<br>G-5<br>G-6 |  | (2)<br>(0.5)<br>(2)<br>(2)  |  | G-1<br>G-1<br>G-1<br>G-1 |  | X<br>X<br>X<br>X                              |  | DATE<br>10/7/24<br>10/7/24<br>10/7/24<br>10/7/24 |  | TIME<br>11:30<br>11:35<br>11:40<br>11:40 |  | TPH<br>Chloride<br>BTEX |  | NO Sample |  |
|  |  |                          |  |   |  |                          |  |   |  |  |  |  |  |                         |  |           |  |
| 11<br>12<br>13<br>14   |  | G-4<br>G-5<br>G-5<br>G-6 |  | (2)<br>(0.5)<br>(2)<br>(2)  |  | G-1<br>G-1<br>G-1<br>G-1 |  | X<br>X<br>X<br>X                              |  | DATE<br>10/7/24<br>10/7/24<br>10/7/24<br>10/7/24 |  | TIME<br>11:30<br>11:35<br>11:40<br>11:40 |  | TPH<br>Chloride<br>BTEX |  | NO Sample |  |
| 11<br>12<br>13<br>14   |  | G-4<br>G-5<br>G-5<br>G-6 |  | (2)<br>(0.5)<br>(2)<br>(2)  |  | G-1<br>G-1<br>G-1<br>G-1 |  | X<br>X<br>X<br>X                              |  | DATE<br>10/7/24<br>10/7/24<br>10/7/24<br>10/7/24 |  | TIME<br>11:30<br>11:35<br>11:40<br>11:40 |  | TPH<br>Chloride<br>BTEX |  | NO Sample |  |

Delivered By: (Circle One) Observed Temp. °C: 5.9 Sample Condition CHECKED BY:  
 Sampler - UPS - Bus - Other: Corrected Temp. °C: 5.3 Cool Intact (Initials)  
☐ Yes ☐ No ☐ Yes ☐ No

Relinquished By: Time: 10:00 Date: 10/8/24 Received By:  
Time: 10:00 Date: 10/8/24 Received By:

REMARKS: \* Customer requested sample changes - see 10/8/24

Turnaround Time: 48 hours Standard Rush ☒ Add'l Phone #:

Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #:  
 All Results are emailed. Please provide Email address:

Bacteria (only) Sample Condition Cool Intact Observed Temp. °C  
☐ Yes ☐ No ☐ Yes ☐ No Corrected Temp. °C



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

---

October 11, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: CARBON VALLEY 26-1

Enclosed are the results of analyses for samples received by the laboratory on 10/09/24 11:40.

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:         | 10/09/2024              | Sampling Date:      | 10/08/2024     |
| Reported:         | 10/11/2024              | Sampling Type:      | Soil           |
| Project Name:     | CARBON VALLEY 26-1      | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN              | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON - EDDY CO, NM |                     |                |

**Sample ID: BS - 01 ( 1' ) (H246128-01)**

| BTEX 8021B     |        | mg/L            |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.11 | 106        | 2.00          | 2.19 |           |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.14 | 107        | 2.00          | 2.40 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.13 | 107        | 2.00          | 3.21 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 6.36 | 106        | 6.00          | 3.52 |           |
| Total BTEX     | <0.300 | 0.300           | 10/09/2024 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 77.5-125

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 144    | 16.0            | 10/09/2024 | 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            | 10/09/2024 | ND              | 218 | 109        | 200           | 1.38 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/09/2024 | ND              | 226 | 113        | 200           | 1.82 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/09/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/09/2024  
 Reported: 10/11/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/08/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WS - 01 ( 0-1' ) (H246128-02)**

| BTEX 8021B     |        | mg/L            |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.11 | 106        | 2.00          | 2.19 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.14 | 107        | 2.00          | 2.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.13 | 107        | 2.00          | 3.21 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 6.36 | 106        | 6.00          | 3.52 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/09/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 77.5-125

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 304    | 16.0            | 10/09/2024 | 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            | 10/09/2024 | ND              | 218 | 109        | 200           | 1.38 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/09/2024 | ND              | 226 | 113        | 200           | 1.82 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/09/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 111 % 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: 10/09/2024  
 Reported: 10/11/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/08/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WS - 02 ( 0-1' ) (H246128-03)**

| BTEx 8021B     |        | mg/L            |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.11 | 106        | 2.00          | 2.19 |           |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.14 | 107        | 2.00          | 2.40 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.13 | 107        | 2.00          | 3.21 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 6.36 | 106        | 6.00          | 3.52 |           |
| Total BTEX     | <0.300 | 0.300           | 10/09/2024 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 77.5-125

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 352    | 16.0            | 10/09/2024 | 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            | 10/09/2024 | ND              | 218 | 109        | 200           | 1.38 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/09/2024 | ND              | 226 | 113        | 200           | 1.82 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/09/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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: 10/09/2024  
 Reported: 10/11/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/08/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WS - 03 ( 0-1' ) (H246128-04)**

| BTEX 8021B     |        | mg/L            |            | Analyzed By: JH |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.11 | 106        | 2.00          | 2.19 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.14 | 107        | 2.00          | 2.40 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.13 | 107        | 2.00          | 3.21 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 6.36 | 106        | 6.00          | 3.52 |           |  |
| Total BTEX     | <0.300 | 0.300           | 10/09/2024 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 77.5-125

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 272    | 16.0            | 10/09/2024 | 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            | 10/09/2024 | ND              | 218 | 109        | 200           | 1.38 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/09/2024 | ND              | 226 | 113        | 200           | 1.82 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/09/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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: 10/09/2024  
 Reported: 10/11/2024  
 Project Name: CARBON VALLEY 26-1  
 Project Number: NONE GIVEN  
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/08/2024  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WS - 04 ( 0-1' ) (H246128-05)**

| BTEx 8021B     |        | mg/L            |            | Analyzed By: JH |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.11 | 106        | 2.00          | 2.19 |           |
| Toluene*       | <0.050 | 0.050           | 10/09/2024 | ND              | 2.14 | 107        | 2.00          | 2.40 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/09/2024 | ND              | 2.13 | 107        | 2.00          | 3.21 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/09/2024 | ND              | 6.36 | 106        | 6.00          | 3.52 |           |
| Total BTEX     | <0.300 | 0.300           | 10/09/2024 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 106 % 77.5-125

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 368    | 16.0            | 10/09/2024 | 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            | 10/09/2024 | ND              | 218 | 109        | 200           | 1.38 |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/09/2024 | ND              | 226 | 113        | 200           | 1.82 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/09/2024 | ND              |     |            |               |      |           |

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



---

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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.   |
| 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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

---

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\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

**District I**  
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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 394689

QUESTIONS

|  |   |
|--|---|
| Operator:<br>3R Operating, LLC<br>20405 State Highway 249<br>Houston, TX 77070 | OGRID:<br>331569  |
|  | Action Number:<br>394689  |
|  | Action Type:<br>[C-141] Deferral Request C-141 (C-141-v-Deferral) |

QUESTIONS

|                  |  |
|------------------|--|
| Prerequisites    |  |
| Incident ID (n#) | nAPP2415757665   |
| Incident Name    | NAPP2415757665 CARBON VALLEY 26 FEDERAL COM #001H @ 30-015-37683 |
| Incident Type    | Other  |
| Incident Status  | Deferral Request Received  |
| Incident Well    | [30-015-37683] CARBON VALLEY 26 FEDERAL COM #001H                |

|  |                                    |
|--|------------------------------------|
| Location of Release Source                     |                                    |
| Please answer all the questions in this group. |                                    |
| Site Name                                      | CARBON VALLEY 26 FEDERAL COM #001H |
| Date Release Discovered                        | 06/10/2011                         |
| Surface Owner                                  | Federal                            |

|  |       |
|--|-------|
| 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 1,829 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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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 394689

**QUESTIONS (continued)**

|  |                |
|--|----------------|
| Operator:<br>3R Operating, LLC<br>20405 State Highway 249<br>Houston, TX 77070 | OGRID:         |
|  | 331569         |
|  | Action Number: |
|  | 394689         |
| Action Type:   |                |
| [C-141] Deferral Request C-141 (C-141-v-Deferral)                              |                |

**QUESTIONS**

| <b>Nature and Volume of Release (continued)</b>   |  |
|---|--|
| 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:<br>(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<br>Title: Regulatory Coordinator<br>Email: ccottrell@jdmii.com<br>Date: 06/17/2024 |
|--|---|

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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 394689

**QUESTIONS (continued)**

|  |   |
|--|---|
| Operator:<br>3R Operating, LLC<br>20405 State Highway 249<br>Houston, TX 77070 | OGRID:  |
|  | 331569  |
|  | Action Number:<br>394689  |
|  | Action Type:<br>[C-141] Deferral Request C-141 (C-141-v-Deferral) |

**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) | Less than or equal 25 (ft.)    |
| What method was used to determine the depth to ground water  | NM OSE iWaters Database Search |
| Did this release impact groundwater or surface water   | No                             |
| <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 1000 (ft.) and ½ (mi.) |
| An occupied permanent residence, school, hospital, institution, or church  | Between ½ and 1 (mi.)          |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes  | Between ½ and 1 (mi.)          |
| Any other fresh water well or spring   | Between ½ and 1 (mi.)          |
| Incorporated municipal boundaries or a defined municipal fresh water well field  | Between ½ and 1 (mi.)          |
| A wetland  | Between 1000 (ft.) and ½ (mi.) |
| A subsurface mine  | Between ½ and 1 (mi.)          |
| An (non-karst) unstable area   | Between 1000 (ft.) and ½ (mi.) |
| Categorize the risk of this well / site being in a karst geology   | High                           |
| A 100-year floodplain  | Between 1000 (ft.) and ½ (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)         | 832   |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 28399 |
| GRO+DRO (EPA SW-846 Method 8015M)           | 22669 |
| BTEX (EPA SW-846 Method 8021B or 8260B)     | 1.2   |
| 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                        | 06/20/2024 |
| On what date will (or did) the final sampling or liner inspection occur     | 10/08/2024 |
| On what date will (or was) the remediation complete(d)                      | 10/08/2024 |
| What is the estimated surface area (in square feet) that will be reclaimed  | 200        |
| What is the estimated volume (in cubic yards) that will be reclaimed        | 7.4        |
| What is the estimated surface area (in square feet) that will be remediated | 200        |
| What is the estimated volume (in cubic yards) that will be remediated       | 7.4        |

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**  
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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 394689

**QUESTIONS (continued)**

|  |                |   |
|--|----------------|---|
| Operator:<br>3R Operating, LLC<br>20405 State Highway 249<br>Houston, TX 77070 | OGRID:         | 331569  |
|  | Action Number: | 394689  |
|  | Action Type:   | [C-141] Deferral Request C-141 (C-141-v-Deferral) |
|  |                |   |

**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                 | OWL LANDFILL JAL [fJEG1635837366] |
| <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              | Not answered.                     |
| <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: Dmitry Nikanorov<br>Email: dimitry@mcnabbpartners.com<br>Date: 10/22/2024 |
|--|---|

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 394689

**QUESTIONS (continued)**

|  |   |
|--|---|
| Operator:<br>3R Operating, LLC<br>20405 State Highway 249<br>Houston, TX 77070 | OGRID:<br>331569  |
|  | Action Number:<br>394689  |
|  | Action Type:<br>[C-141] Deferral Request C-141 (C-141-v-Deferral) |

**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   | Yes   |
| Have the lateral and vertical extents of contamination been fully delineated   | Yes   |
| Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction   | Yes   |
| Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction  | Storage tanks and associated flowlines  |
| What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted   | 3357  |
| What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted   | 249   |
| <i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>   |   |
| Enter the facility ID (f#) on which this deferral should be granted  | Not answered.   |
| Enter the well API (30-) on which this deferral should be granted  | 30-015-37683 CARBON VALLEY 26 FEDERAL COM #001H                                 |
| Contamination does not cause an imminent risk to human health, the environment, or groundwater   | True  |
| <i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>   |   |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |   |
| I hereby agree and sign off to the above statement   | Name: Dmitry Nikanorov<br>Email: dimitry@mcnabbpartners.com<br>Date: 10/22/2024 |

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QUESTIONS, Page 6  
  
Action 394689

QUESTIONS (continued)

|  |                |   |
|--|----------------|---|
| Operator:<br>3R Operating, LLC<br>20405 State Highway 249<br>Houston, TX 77070 | OGRID:         | 331569  |
|  | Action Number: | 394689  |
|  | Action Type:   | [C-141] Deferral Request C-141 (C-141-v-Deferral) |

QUESTIONS

| Sampling Event Information  |            |
|---|------------|
| Last sampling notification (C-141N) recorded  | 390094     |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 10/08/2024 |
| What was the (estimated) number of samples that were to be gathered                             | 5          |
| What was the sampling surface area in square feet   | 200        |

| 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 394689

CONDITIONS

|  |                |   |
|--|----------------|---|
| Operator:<br><br>3R Operating, LLC<br>20405 State Highway 249<br>Houston, TX 77070 | OGRID:         | 331569  |
|  | Action Number: | 394689  |
|  | Action Type:   | [C-141] Deferral Request C-141 (C-141-v-Deferral) |
|  |                |   |

CONDITIONS

| Created By | Condition   | Condition Date |
|------------|---|----------------|
| bhall      | Deferral request approved.  | 10/25/2024     |
| bhall      | Contamination that is left in place must be remediated when the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.  | 10/25/2024     |
| bhall      | An application of a Micro-Blaze solution is NOT approved to be applied to the impacted areas to degrade hydrocarbons present in soil while the facility is still in use. Micro-Blaze requires water and oxygen to remediate. Water and oxygen in the soil will be reduced in the compacted soils beneath the liner. The excavation and disposal (dig and haul) of the contamination has been approved in the Remediation Plan section of the C-141 and must be completed at time of facility deconstruction or plugging and abandonment, whichever comes first. | 10/25/2024     |
| bhall      | The site must also be reclaimed when it is no longer reasonably needed for production or subsequent drilling activities. A reclamation report will not be accepted until reclamation of the release area is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.  | 10/25/2024     |