

Volume Justification

Carbon Valley 25 Federal #001 (30-015-30953)
nMLB1020852567 6/28/2010

The reported volume of diesel fuel lost was 385 gallons (9.1 bbls) based on volume lost from tank when it was knocked over.



October 16, 2024

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

RE: Closure Report
Incident ID: nMLB1020852567
Carbon Valley 25 Fed 1
Lat/Long: 32.8899155, -104.2260437
Project ID: 20100628-1533-carbonValley25_1

NMOCD:

McNabb Partners LLC submits this closure request for the above incident on behalf of Murchison Oil and Gas, LLC.

This report includes remediation action and confirmation sampling activities conducted at the Carbon Valley 25 Fed 1 production site. The remediation was completed in accordance with the remediation work plan submitted to NMOCD and approved on 09/09/2024.

- Communications with NMOCD regarding workplan approval are included in Appendix A.

1. Remediation Activities and Confirmation Sampling

Closure Criteria for the site according to Table I in 19.29.12.12 NMAC is listed below:

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

Remediation activities began on September 26, 2024. The first confirmation sampling event was conducted on October 1, 2024.



Carbon Valley 25 Fed 1
Incident #: nMLB1020852567

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.

3 confirmation samples were collected from the base of the excavation (i.e., BS-01 at a depth of 10 feet below ground surface (ft bgs), BS-02 at 2 ft bgs and BS-03 at 6 ft bgs) and 6 confirmation samples were collected from the walls of the excavation (i.e., WS-01 through WS-06). Analytical results indicate that side wall confirmation samples WS-02 and WS-05 exceed NMOCD closure criteria for chloride concentrations listed in Table I (19.15.29 NMAC).

Following the receipt of analytical data, the respective areas WS-02 and WS-05 were excavated and side walls were pushed further out to ensure all impacted soils were removed. On October 8, 2024, after the completion of the excavation, 2 composite side wall samples (i.e., WS-02A and WS-05A) were collected. Additional composite excavation base sample (i.e., BS-04) was collected at 10 ft bgs, after the 10 ft deep section of the excavation was measured to be more than 200 sq ft. All samples were analyzed for TPH, BTEX and chloride by a certified laboratory. Analytical results indicate that all samples met concentrations listed in Table I (19.15.29 NMAC), therefore all impacted soils were removed from the affected area of release.

Upon receipt of final confirmation samples, excavation was backfilled with clean non-waste containing caliche to restore the surface to an active production pad for oil and gas operations.

- Plate 1 shows the site map of entire Carbon Valley 25 Fed 1 well pad.
- Plate 2 shows the final excavation map with confirmation sample locations.
- Confirmation sample results are included in Table A Summary of Analytical.
- Certificate of Analysis for confirmation samples are included in Appendix B.
- All sampling notifications are included in Appendix A.

2. Closure Request

Remediation Closure Request	
Requesting a remediation closure approval with this submission?	Yes
Have the lateral and vertical extents of contamination been fully delineated?	Yes
Was this release entirely contained within a lined containment area?	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized?	Yes
What was the total surface area (in sq ft) remediated?	622
What was the total volume (cubic yards) remediated?	163
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed	Yes



Carbon Valley 25 Fed 1
Incident #: nMLB1020852567

to contain a minimum of 4 ft non waste containing material with concentration less than 600 mg/kg chlorides?	
What was the total surface area (in sq ft) reclaimed?	622
What was the total volume (in cubic yards) reclaimed?	163
Summarize any addition remediation activities not included in answers above	Dig and haul disposal

On behalf of Murchison Oil & Gas, we respectfully request closure for the incident ID: nMLB1020852567. Based on the remedial action activities and confirmation samples analytical results, the Site is compliant with applicable closure requirements set forth in rule 19.15.19.12 NMAC and no further actions are required at the site.

When the production site is no longer in use for oil and gas operations, the surface will be restored, reclaimed and revegetated per 19.15.29.12 and 19.15.29.13 NMAC.

Please contact me with any questions.

Sincerely,

Dimitry Nikanorov
Project Manager
McNabb Partners
(917) 497-6890



Cc: Murchison Oil and Gas, LLC

October 16, 2024

Page 3 of 5



Carbon Valley 25 Fed 1
Incident #: nMLB1020852567



Figure 1. Excavation activities on 10/01/2024.

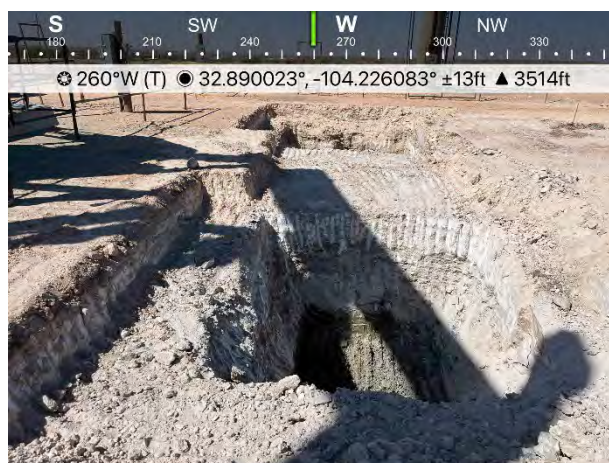


Figure 2. Excavation activities on 10/01/2024.



Figure 3. 2 ft area of the excavation.



Figure 4. 6 ft area of the excavation.



Figure 5. 10 ft area of the excavation.



Figure 6. 10 ft area of the excavation.



Carbon Valley 25 Fed 1
Incident #: nMLB1020852567

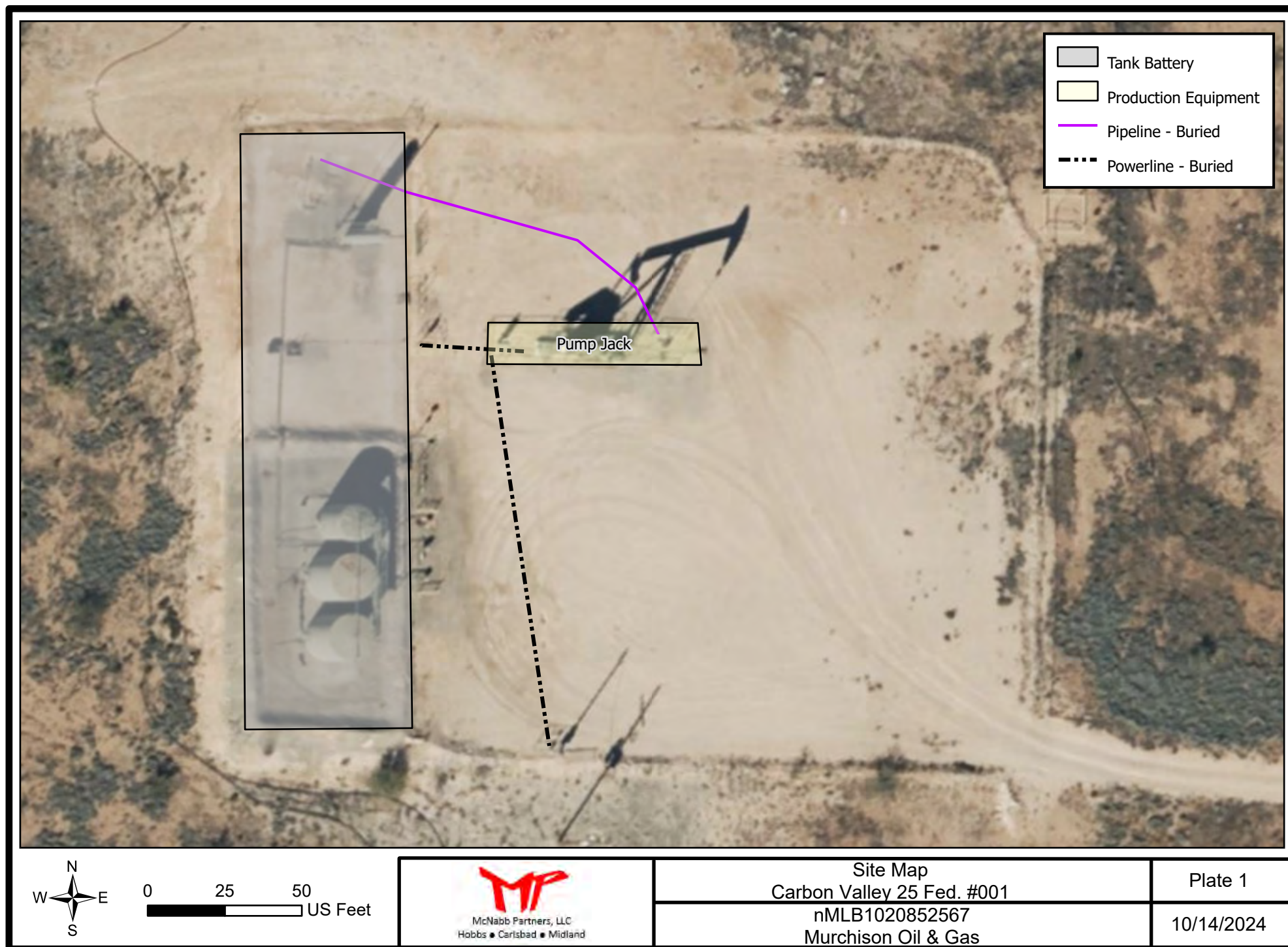


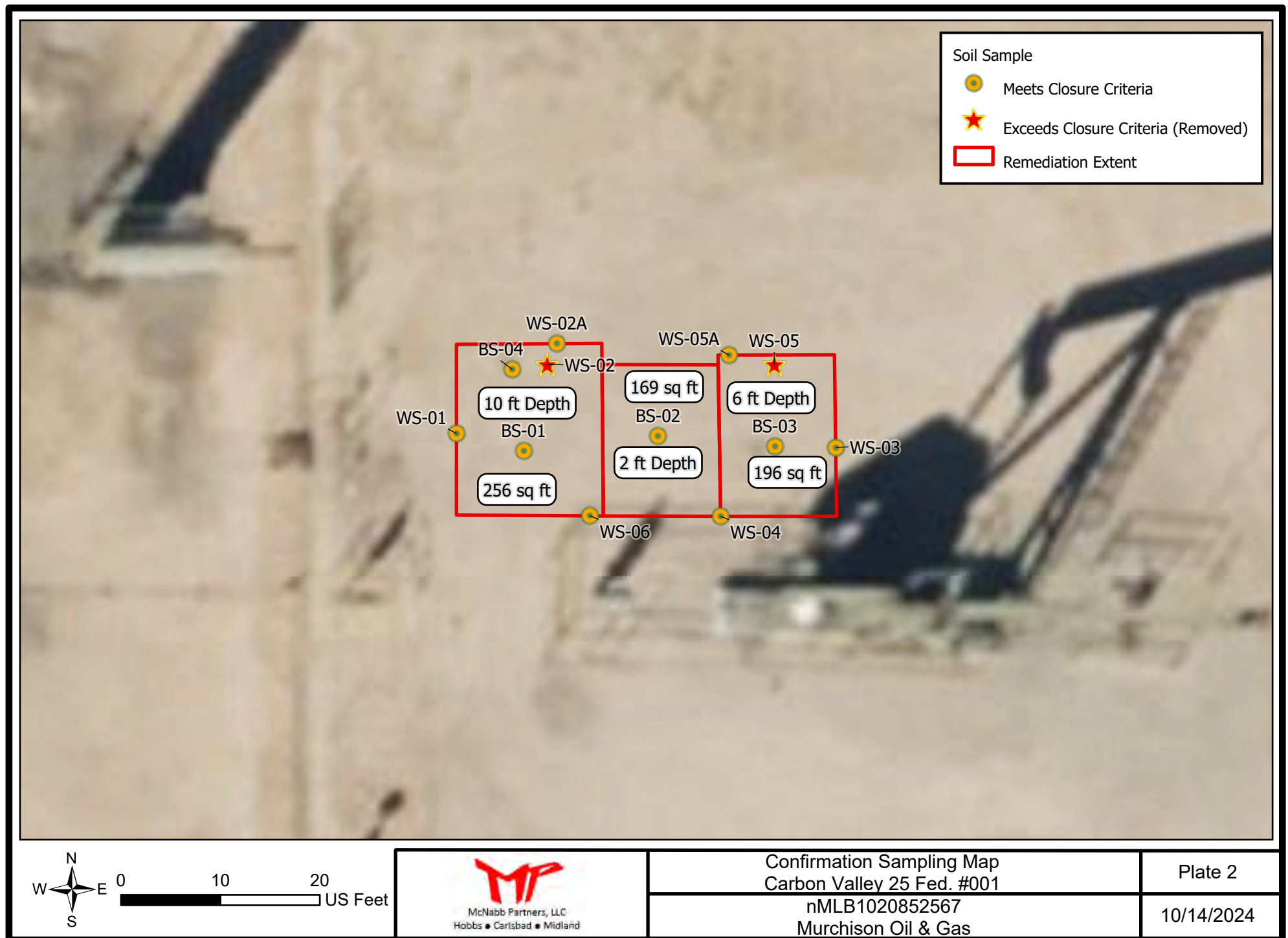
Figure 7. Backfilled excavation.

Plates



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Tables



McNabb Partners, LLC
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Table A. Analytical Summary
Carbon Valley 25 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	Lab #
NMOCD Closure Criteria			600	--	--	--	--	100	10	50		
Excavation Base Confirmation Samples												
BS-01	10/1/2024	10	80	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H245973-01
BS-02	10/1/2024	2	160	<10.0	48.2	48.2	<10.0	48.2	<0.050	<0.300	Cardinal	H245973-02
BS-03	10/1/2024	6	480	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H245973-03
BS-04	10/8/2024	10	320	<10.0	57.2	57.2	<10.0	57.2	<0.050	<0.300	Cardinal	H246129-01
Side Wall Confirmation Samples												
WS-01	10/1/2024	0-10	384	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H245973-04
WS-02	10/1/2024	0-10	864	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H245973-05
WS-02A	10/8/2024	0-10	32	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246129-02
WS-03	10/1/2024	0-6	368	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H245973-06
WS-04	10/1/2024	0-6	176	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H245973-07
WS-05	10/1/2024	0-6	608	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H245973-08
WS-05A	10/8/2024	0-6	224	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H246129-03
WS-06	10/1/2024	0-6	560	<10.0	<10.0	<20.0	<10.0	<30.0	<0.050	<0.300	Cardinal	H245973-09
Legend:												
Sample exceeds NMOCD Closure Criteria												
Sample point has been excavated												

Appendix A

Communications



McNabb Partners, LLC
Hobbs • Carlsbad • Midland



Outlook

Carbon Valley 25 1 - Plan Approved

From Cindy Cottrell <ccottrell@jdmii.com>

Date Mon 9/9/2024 3:11 PM

To Andrew Parker <Andrew@mcnabbpartners.com>; Dmitry Nikanorov <Dimitry@mcnabbpartners.com>

Cc Greg Boans <gboans@jdmii.com>; Rusty Cooper <rcooper@jdmii.com>; Luke Pumphrey <lpumphrey@jdmii.com>

Please see below:

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Monday, September 9, 2024 4:06 PM

To: Cindy Cottrell <ccottrell@jdmii.com>

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 314472

To whom it may concern (c/o Cindy Cottrell for Murchison Oil and Gas, LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nMLB1020852567, with the following conditions:

- **OCD approves horizontal and vertical delineation will be completed through excavation and confirmation sampling pursuant to 19.15.29.12 NMAC. Delineation sampling being performed prior to excavation activities will not be accepted for remediation closure. Remediation and delineation will need to meet the most stringent remediation closure criteria found on Table I of 19.15.29 NMAC.**
- **Due to incomplete vertical delineation information at CS-05, the excavation will need to be extended past 9 and a half feet below ground surface contingent upon the results of the remediation confirmation samples. Remediation confirmation samples must meet the most stringent remediation closure criteria found on Table I of 19.15.29 NMAC.**
- **Pursuant to 19.15.29.12 D.(1)(a) NMAC, ensure the C-141N (Notification of Sampling) application is completed on the OCD Permitting website at least 2 business days prior to collecting remediation confirmation samples.**
- **A complete remediation closure report pursuant to 19.15.29 NMAC will need to be submitted by 12/9/2024. Failure to submit a complete remediation plan and/or remediation closure report by 12/9/2024 is subject to compliance and enforcement penalties pursuant to 19.15.5 NMAC.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,

Brittany Hall

Projects Environmental Specialist - A

505-517-5333

Brittany.Hall@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive

Santa Fe, NM 87505

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 387967

QUESTIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 387967
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMLB1020852567
Incident Name	NMLB1020852567 CARBON VALLEY 25 FED 1 @ 30-015-30953
Incident Type	Release Other
Incident Status	Remediation Plan Approved
Incident Well	[30-015-30953] CARBON VALLEY 25 FEDERAL #001

Location of Release Source	
Site Name	Carbon Valley 25 Fed 1
Date Release Discovered	06/28/2010
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	10/01/2024
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Sampling started on 9/27/2024 and will continue on 10/01/2024. Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890
Please provide any information necessary for navigation to sampling site	GPS coordinates: 32.889996, -104.226265

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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Phone:(575) 748-1283 Fax:(575) 748-9720
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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 387967

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 387967
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
aparkernp	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/27/2024

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

QUESTIONS

Action 390095

QUESTIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 390095
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMLB1020852567
Incident Name	NMLB1020852567 CARBON VALLEY 25 FED 1 @ 30-015-30953
Incident Type	Release Other
Incident Status	Remediation Plan Approved
Incident Well	[30-015-30953] CARBON VALLEY 25 FEDERAL #001

Location of Release Source	
Site Name	Carbon Valley 25 Fed 1
Date Release Discovered	06/28/2010
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	400
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	10/08/2024
Time sampling will commence	09:00 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: 32.889996, -104.226265

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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 390095

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 390095
	Action Type: [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

Appendix B

Certificates of Analysis



McNabb Partners, LLC
Hobbs • Carlsbad • Midland



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

October 04, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: CARBON VALLEY 25-1

Enclosed are the results of analyses for samples received by the laboratory on 10/02/24 9:44.

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.

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,

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:	10/02/2024	Sampling Date:	10/01/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	CARBON VALLEY 25-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	MURCHISON - EDDY CO, NM		

Sample ID: BS - 01 10 FT (H245973-01)

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	10/03/2024	ND	2.09	105	2.00	1.63	
Toluene*	<0.050	0.050	10/03/2024	ND	2.03	102	2.00	1.44	
Ethylbenzene*	<0.050	0.050	10/03/2024	ND	2.09	105	2.00	1.05	
Total Xylenes*	<0.150	0.150	10/03/2024	ND	6.24	104	6.00	1.20	
Total BTEX	<0.300	0.300	10/03/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/02/2024	ND	416	104	400	7.41		

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	10/02/2024	ND	220	110	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	209	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

Cardinal Laboratories

*=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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Analytical Results For:

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

Received: 10/02/2024
 Reported: 10/04/2024
 Project Name: CARBON VALLEY 25-1
 Project Number: NONE GIVEN
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BS - 02 2 FT (H245973-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/02/2024	ND	2.00	100	2.00	5.63		
Toluene*	<0.050	0.050	10/02/2024	ND	2.08	104	2.00	5.02		
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.11	105	2.00	5.05		
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.40	107	6.00	4.75		
Total BTX	<0.300	0.300	10/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	160	16.0	10/02/2024	ND	416	104	400	7.41		

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	10/02/2024	ND	220	110	200	2.48	
DRO >C10-C28*	48.2	10.0	10/02/2024	ND	209	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

Cardinal Laboratories

*=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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Analytical Results For:

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

Received: 10/02/2024
 Reported: 10/04/2024
 Project Name: CARBON VALLEY 25-1
 Project Number: NONE GIVEN
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BS - 03 6 FT (H245973-03)

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	10/02/2024	ND	2.00	100	2.00	5.63	
Toluene*	<0.050	0.050	10/02/2024	ND	2.08	104	2.00	5.02	
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.11	105	2.00	5.05	
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.40	107	6.00	4.75	
Total BTEX	<0.300	0.300	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	10/02/2024	ND	416	104	400	7.41	

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	10/02/2024	ND	220	110	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	209	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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: 10/02/2024
 Reported: 10/04/2024
 Project Name: CARBON VALLEY 25-1
 Project Number: NONE GIVEN
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WS - 01 0-10 FT (H245973-04)

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	10/02/2024	ND	2.00	100	2.00	5.63	
Toluene*	<0.050	0.050	10/02/2024	ND	2.08	104	2.00	5.02	
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.11	105	2.00	5.05	
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.40	107	6.00	4.75	
Total BTEX	<0.300	0.300	10/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/02/2024	ND	416	104	400	7.41	

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	10/02/2024	ND	220	110	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	209	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/02/2024
 Reported: 10/04/2024
 Project Name: CARBON VALLEY 25-1
 Project Number: NONE GIVEN
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WS - 02 0-10 FT (H245973-05)

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	10/02/2024	ND	2.00	100	2.00	5.63	
Toluene*	<0.050	0.050	10/02/2024	ND	2.08	104	2.00	5.02	
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.11	105	2.00	5.05	
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.40	107	6.00	4.75	
Total BTEX	<0.300	0.300	10/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	10/02/2024	ND	416	104	400	7.41	

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	10/02/2024	ND	220	110	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	209	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/02/2024
 Reported: 10/04/2024
 Project Name: CARBON VALLEY 25-1
 Project Number: NONE GIVEN
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WS - 03 0-6 FT (H245973-06)

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	10/02/2024	ND	2.00	100	2.00	5.63	
Toluene*	<0.050	0.050	10/02/2024	ND	2.08	104	2.00	5.02	
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.11	105	2.00	5.05	
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.40	107	6.00	4.75	
Total BTEX	<0.300	0.300	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	368	16.0	10/02/2024	ND	416	104	400	7.41		

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	10/02/2024	ND	220	110	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	209	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/02/2024
 Reported: 10/04/2024
 Project Name: CARBON VALLEY 25-1
 Project Number: NONE GIVEN
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WS - 04 0-6 FT (H245973-07)

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	10/02/2024	ND	2.00	100	2.00	5.63		
Toluene*	<0.050	0.050	10/02/2024	ND	2.08	104	2.00	5.02		
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.11	105	2.00	5.05		
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.40	107	6.00	4.75		
Total BTEX	<0.300	0.300	10/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	176	16.0	10/02/2024	ND	416	104	400	7.41		

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	10/02/2024	ND	220	110	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	209	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/02/2024
 Reported: 10/04/2024
 Project Name: CARBON VALLEY 25-1
 Project Number: NONE GIVEN
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WS - 05 0-6 FT (H245973-08)

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	10/02/2024	ND	2.00	100	2.00	5.63	
Toluene*	<0.050	0.050	10/02/2024	ND	2.08	104	2.00	5.02	
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.11	105	2.00	5.05	
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.40	107	6.00	4.75	
Total BTEX	<0.300	0.300	10/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	10/02/2024	ND	416	104	400	7.41		

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	10/02/2024	ND	220	110	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	209	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 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: 10/02/2024
 Reported: 10/04/2024
 Project Name: CARBON VALLEY 25-1
 Project Number: NONE GIVEN
 Project Location: MURCHISON - EDDY CO, NM

Sampling Date: 10/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: WS - 06 0-10 FT (H245973-09)

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	10/02/2024	ND	2.00	100	2.00	5.63	
Toluene*	<0.050	0.050	10/02/2024	ND	2.08	104	2.00	5.02	
Ethylbenzene*	<0.050	0.050	10/02/2024	ND	2.11	105	2.00	5.05	
Total Xylenes*	<0.150	0.150	10/02/2024	ND	6.40	107	6.00	4.75	
Total BTEX	<0.300	0.300	10/02/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/02/2024	ND	416	104	400	7.41	

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	10/02/2024	ND	220	110	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/02/2024	ND	209	104	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>McNabb Partners</u>		BILL TO		ANALYSIS REQUEST			
Project Manager: <u>Dimitri Nikanoras</u>		P.O. #:					
Address: <u>5014 W Carlstead Hwy</u>		Company: <u>Murchison</u>					
City: <u>Heles</u>		Attn: <u>Greg Boars</u>					
State: <u>NM</u> Zip: <u>88040</u>		Address:					
Phone #:		City:					
Fax #:		State:					
Project #:		Zip:					
Project Name: <u>Carbon Valley AB-1</u>		Phone #:					
Project Location: <u>Eddy County</u>		Fax #:					
Sampler Name: <u>Auden Escayda</u>							
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV.	SAMPLING
				GROUNDWATER			
				WASTEWATER			
				SOIL			
				OIL			
				SLUDGE			
				OTHER:			
				ACID/BASE:			
				ICE / COOL			
				OTHER:			
				DATE	TIME		
<u>1245973</u>	<u>BS-01</u>	<u>10FT</u>	<u>C</u>	<u>10/6/14</u>		<u>X</u>	<u>BTEX</u>
<u>2</u>	<u>BS-02</u>	<u>2FT</u>	<u>1</u>			<u>X</u>	<u>Chloride</u>
<u>3</u>	<u>BS-03</u>	<u>6FT</u>	<u>1</u>			<u>X</u>	<u>TPH</u>
<u>4</u>	<u>WS-01</u>	<u>0-10FT</u>					
<u>5</u>	<u>WS-02</u>	<u>0-10FT</u>					
<u>6</u>	<u>WS-03</u>	<u>0-6FT</u>					
<u>7</u>	<u>WS-04</u>	<u>0-6FT</u>					
<u>8</u>	<u>WS-05</u>	<u>0-6FT</u>					
<u>9</u>	<u>WS-06</u>	<u>0-10FT</u>					

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Relinquished By: <u>[Signature]</u>	Date: <u>10/6/14</u>	Received By: <u>[Signature]</u>	Date: <u>10/6/14</u>
Relinquished By: <u>[Signature]</u>	Date: <u>10/6/14</u>	Received By: <u>[Signature]</u>	Date: <u>10/6/14</u>

Delivered By: (Circle One) Observed Temp. °C 10.0°C Corrected Temp. °C 10.0°C

Sampler - UPS - Bus - Other: UPS

Sample Condition: Intact Yes No

Checked By: [Signature]

Turnaround Time: Standard 18 hrs

Thermometer ID #140 18 hrs

Correction Factor -0.5°C

Bacteria (only) Sample Condition: Observed Temp. °C 10.0°C

Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #:

REMARKS: Dimitri@McNabbPartners.com



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 25-1

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.

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' at the beginning.

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 25-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON - EDDY CO, NM		

Sample ID: BS - 04 (10') (H246129-01)

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) 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	320	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*	57.2	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 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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: 10/09/2024
 Reported: 10/11/2024
 Project Name: CARBON VALLEY 25-1
 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 - 02A (0-10') (H246129-02)

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	32.0	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 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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: 10/09/2024
 Reported: 10/11/2024
 Project Name: CARBON VALLEY 25-1
 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 - 05A (0-6') (H246129-03)

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) 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	224	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 133 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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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
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



Company Name:	McNabb Partners
---------------	-----------------

Project Manager: Dmitry Nikanorov

Address: 5014 W Carlsbad Hwy

City: Hobbs	State: NM	Zip: 88240
-------------	-----------	------------

Phone #:	917-497-6890	Fax #:	
----------	--------------	--------	--

Project #: _____

Project Name: Carbon Valley 25-1

Project Location: Eddy Co, NM

FOR LARISE ONLY	Sampler Name:	Dimitry Nikanorov
-----------------	----------------------	-------------------

BILLS TO

P.O. #

Company: Murchison Oil & Gas

Attn: Greg Boans

Address: 5325 Sierra Vista Dr,

City: Carlsbad

07798 :d/7 INN :a1p1c

Fax #:

ANALYSIS REQUEST

Project Manager: Dmitry Nikanorov Address: 5014 W Carlsbad Hwy City: Hobbs Phone #: 917-497-6890 Project #: Project Name: Carbon Valley 25-1 Project Location: Eddy Co. NM Sampler Name: Dmitry Nikanorov										P.O. #: Company: Murchison Oil & Gas Attn: Greg Boans Address: 5325 Sierra Vista Dr, City: Carlsbad State: NM Zip: 88220 Phone #: 575-706-0667 Fax #:										BILL TO									
Lab I.D. Sample I.D.										FOR LAB USE ONLY										ANALYSIS REQUEST									
(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :										MATRIX PRESERV										SAMPLING									
BS-04 (10') C 1 X WS-02A (0-10') C 1 X WS-05A (0-6') C 1 X										DATE TIME 10/8/24 11:00 10/8/24 11:05 10/8/24 11:10										TPH Chloride BTEX									
1 2 3										X X X										X X X									

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Released by: _____ **Date:** _____

Accepted by: _____ **Date:** _____

Relinquished By:

Date: 10/2/2011

Received By:

Relinquished By:

Date:

Received By:

REMARKS

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address

REMARKS

Delivered By: (Circle One)

Observed Temp. °C

Sample Conditioner

CHECKED BY:

Sampler - UPS - Bus - Other:

Corrected Temp., °C

Cool	Intact
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes

(Initials)

48 hours
Thermometer ID #140

Rush

☐ Cool ☐ Intact

1

Observed Temp., °C

100

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

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 393273

QUESTIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID:
	15363
	Action Number:
	393273
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nMLB1020852567
Incident Name	NMLB1020852567 CARBON VALLEY 25 FED 1 @ 30-015-30953
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-30953] CARBON VALLEY 25 FEDERAL #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Carbon Valley 25 Fed 1
Date Release Discovered	06/28/2010
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Release 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	Not answered.
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	Cause: Human Error Tank (Any) Diesel Released: 385 GAL Recovered: 0 GAL Lost: 385 GAL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 393273

QUESTIONS (continued)

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID:	15363
	Action Number:	393273
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

The responsible party must undertake the following actions immediately unless they could create a 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: Dmitry Nikanorov Email: dimitry@mcnabbpartners.com Date: 10/16/2024
--	---

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QUESTIONS, Page 3

Action 393273

QUESTIONS (continued)

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID:
	15363
	Action Number:
	393273
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 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)	3200
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	2270
GRO+DRO	(EPA SW-846 Method 8015M)	2260
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.3
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1

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

On what estimated date will the remediation commence	10/15/2024
On what date will (or did) the final sampling or liner inspection occur	10/29/2024
On what date will (or was) the remediation complete(d)	10/29/2024
What is the estimated surface area (in square feet) that will be reclaimed	570
What is the estimated volume (in cubic yards) that will be reclaimed	211
What is the estimated surface area (in square feet) that will be remediated	570
What is the estimated volume (in cubic yards) that will be remediated	211

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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QUESTIONS, Page 4

Action 393273

QUESTIONS (continued)

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID:	15363
	Action Number:	393273
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	OWL LANDFILL JAL [fJEG1635837366]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement	Name: Cindy Cottrell Title: Regulatory Coordinator Email: ccottrell@jdmii.com Date: 09/09/2024
--	---

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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District III
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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, Page 5

Action 393273

QUESTIONS (continued)

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 393273
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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
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QUESTIONS, Page 6

Action 393273

QUESTIONS (continued)

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID:
	15363
	Action Number:
	393273
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	390095
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	4
What was the sampling surface area in square feet	400

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	622
What was the total volume (cubic yards) remediated	163
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	622
What was the total volume (in cubic yards) reclaimed	163
Summarize any additional remediation activities not included by answers (above)	see report

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

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

I hereby agree and sign off to the above statement	Name: Dmitry Nikanorov Email: dimitry@mcnabbpartners.com Date: 10/16/2024
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QUESTIONS, Page 7

Action 393273

QUESTIONS (continued)

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID: 15363
	Action Number: 393273
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 393273

CONDITIONS

Operator: Murchison Oil and Gas, LLC 7250 Dallas Parkway Plano, TX 75024	OGRID:
	15363
	Action Number:
	393273
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation closure approved.	10/17/2024
bhall	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, 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.	10/17/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	10/17/2024
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, 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.	10/17/2024
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	10/17/2024
bhall	Times were not included on the chain of custody for Lab# H245973. Ensure that sampling times are included in all future reports for any and all incident numbers.	10/17/2024