

WEST MOUNT SPILL B CLOSURE REQUEST

API NO. 30-005-64381 Unit Letter M, Section 27, Township 15S, Range 28E CHAVES COUNTY, NEW MEXICO

DATE OF RELEASE: 09/20/2023 INCIDENT NO. NAPP2327759229

02/06/2025 Prepared by:



February 06, 2025

New Mexico Energy, Mineral & Natural Resources NMOCD District I C/O Mike Bratcher and Robert Hamlet 811 S. First Street Artesia, NM 88210

Mack Energy Corporation 11344 Lovington Hwy Artesia, NM 88210

Subject: Closure Report for Mack Energy Corporation – West Mount Spill B

API No. 30-005-64381 Incident No. NAPP2327759229 Unit letter M, Section 27, Township 15S, Range 28E Chaves County, New Mexico

To Whom it May Concern:

Mack Energy retained Energy Staffing Services, LLC (ESS) to conduct a spill assessment for the West Mount Spill B (hereafter referred to as "Spill B") for the produced water release that occurred on September 20th, 2023. On September 22nd, 2023, at 4:12 p.m., ESS provided the immediate notification of the release to the *New Mexico Oil Conservation Division (NMOCD)*, *District I Office* via email. (Notification Attached). On behalf of Mack Energy, ESS also submitted the initial C141 Release Notification, along with the spill calculator used to determine the volume of the release (attached) on October 4th, 2023. The NMOCD accepted the C141 as record on October 5th, 2023, at 4:35 p.m. The incident number assigned to the release is NAPP2327759229. (Notification of correspondence is attached).

This report provides a detailed description of the spill assessment, delineation, and remedial activities, which demonstrate that the closure criteria has been established in the 19.15.29.12 New Mexico Administrative Code (NMAC: New Mexico Oil Conservation Division, 2018) have been met and all applicable regulations have been followed. This document is intended to serve as the final report to obtain approval from the NMOCD for the closure of the above-mentioned release.

Incident Description

On September 20th, 2023, the water transfer company Well Spring found a failure on their lay flat line, which had released produced water into the pasture area of Spill B.

Upon discovery of the release, ESS was notified and dispatched to the location to conduct a full environmental site assessment of the release. It was determined, after measuring of the impact area, that approximately 16.35 barrels of produced water, with no fluid able to be recovered, had been released into the pasture area of the Spill B release. Initial site photos and measuring of the impact area were conducted. Please see the initial site photos attached.

Site Characterization

The release at Spill B occurred on State Land and is located at 32.999326 latitude and - 104.07112 longitude, 19.7 miles southeast of Hagerman, New Mexico. The legal description of the site is Unit Letter M, Section 27, Township 15S, and Range 28E. The site is located in Chaves County, New Mexico. Please see the site schematic attached.

The Spill B release consists of production lines and is near production facilities and well pads. The area of the release occurred in the pasture area of Spill B. The elevation is 3,741 feet. The area is historically or has been primarily dominated by Alkali Sacaton, Adonis Blazingstar, black grama, coldenia, blue grama, and other perennial grasses and forbs. Please find the attached Rangeland and Vegetation Classification information.

The *United States Department of Agriculture Natural Resources Conservation Services* indicates that the soil type in the area of Spill B release consists of 100% Tencee-Sotim association. (Soil Map Attached). In the area of Spill B, the *FEMA National Flood Hazard Layer* indicates that there is 0.2% chance of a flood hazard with a 1% chance of flood with an average depth of one foot or with drainage areas of less than one square mile. (See Map Attached).

There is "low potential" for Karst Geology to be present near the Spill B release site, according to the *United States Department of the Interior, Bureau of Land Management*. Please find the Karst Map attached herein.

There is no surface water located near or around Spill B release. The site is not near a continuously flowing watercourse and or lakebed within a ½ mile from the release. No other critical or community features were found at Spill B release. (Please see the attached Watercourse Map).

The nearest and most recent water well to site according to the New Mexico Office of the State Engineer is RA12428, drilled in 2016 with a well depth of 170 feet and a groundwater depth of 125 feet. This well is located 6,237 yards from the site. The second well is RA09248, drilled in 1996 with a well depth of 150 feet and a groundwater depth of 45 feet, 8,173 yards from the site. The third well is RA12429 POD1, drilled in 2016 with a well depth of 62 feet and a

groundwater depth of 27 feet. This well is located 8,319 yards from the site. The fourth well is RA10280, drilled in 2002 with a well depth of 70 feet and a groundwater depth of 40 feet, 8,344 yards from the site. The fifth well is RA09059, drilled in 1996 with a well depth of 110 feet and a groundwater depth of 35 feet. The well is located 8,769 yards from the site. An extended groundwater search was conducted using the *OSE POD Location Mapping System* and it has been determined that no other wells were found within a ½ mile radius of the Spill B release. Please find the NMOSE, OSE POD, and the groundwater map attached to this report.

Closure Criteria Determination

The Closure Criteria for Soils impacted by a Release is shown in the chart below. With no groundwater data available within a ½ mile radius from the release point, being on State Land and with having "low karst potential", the site fell under <50' to groundwater. This is only due to not having any recent or available water depths.

DGW	Constituent	Method	Limit
≤ 50′	Chloride	EPA 300.0 OR SM4500 CLB	600 mg/kg
	TPH (GRO + DRO+ MRO)	EPA SW-846 METHOD 8015M	100 mg/kg
	GRO + DRO	EPA SW-846 METHOD 8015M	50 mg/kg
	BTEX	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg
	Benzene	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg

Soil Remediation Action Levels

ESS has provided sufficient data that this release has impacted the soil on the Spill B release site and that the protocol is consistent with the remediation/abatement goals and objectives set forth in the NMOCD Closure Criteria for Soils Impacted by a Release, dated August 14, 2018. This document provides direction for Mack Energy's initial response actions, site assessment and sample procedures conducted by ESS Staff. We would like to present to you the following information concerning the delineation process for the release detailed herein.

Soil Sampling Procedures

Soil sampling for laboratory analysis was conducted according to the NMOCD – approved industry standards. Accepted NMOCD soil sampling procedures and laboratory analytical methods are as follows:

- Collect clean samples in airtight glass jars supplied by the laboratory to conduct the analysis.
- Each sample jar was labelled with site and sample information.
- Samples were kept in and stored in a cool place and packed on ice.
- Promptly ship samples to the lab for analysis following the chain of custody procedures.

The following lab analysis method was used for each bottom hole (vertical) and sidewall sample (horizontal) was submitted to Envirotech Analytical Laboratory:

Volatile Organics by EPA 8021B

- Benzene, Toluene, Ethylbenzene, p.m. Xylene, o-Xylene and Total Xylenes Nonhalogenated Organics by EPA 8015D – GRO
 - Gasoline Range Organics (C6-C10)

Nonhalogenated Organics by EPA 8015D - DRO/ORO

- Diesel Range Organics (C10-C28)
- Oil Range Organics (C28-C40)

Anions by EPA 300.0/9056A

• Chloride

Release Investigation Data

On November 14th, 2023, ESS arrived on site of the Spill B release, set delineation sample points, GPS'd each sample point and began to obtain surface samples. Each surface sample was field tested, logged, and submitted to Envirotech Laboratory for confirmation. A total of 7 vertical sample points were placed along with 8 horizontal sample points. Each sample point was then sampled by use of backhoe in 1' and 2' intervals. Bottom hole samples were then submitted to lab for confirmation. Please see the delineation sample data below, with the lab indicated in yellow. Attached to this report you will find the sample data, delineation sample map, and the lab analysis.

SP	S 15 W			L-	L-	L-	L-	L-	L-	
ID	Depth	Titr	PID	BTEX	GRO	DRO	ORO	TPH	CHL	Dates
SP1	SURF	>4000	L	ND	ND	ND	ND	ND	4380	11/14/2023
	2	320								
	4	640								
	6	640								
	8	1200								
	10	400								
	12	240	L	ND	ND	ND	ND	ND	189	2/15/2024
		local Maria				Marie N				
SP2	SURF	1600	L	ND	ND	ND	ND	ND	2020	11/14/2023
	2	640								
	4	560								
	6	160								
	8	160	L	ND	ND	ND	ND	ND	46.7	2/15/2024
			A C							
SP3	SURF	>4000	L	ND	ND	ND	ND	ND	5590	11/14/2023
	2	800								
	4	640								

	6	160		Î						
	8	160								
	10	240								
	12	160								
	14	160	L	ND	ND	ND	ND	ND	29.6	2/15/2024
SP4	SURF	1680	L	ND	ND	ND	ND	ND	2060	11/14/2023
	2	480								
	4	320								
	6	400								
	8	320	L	ND	ND	ND	ND	ND	300	2/15/2024
ATT BROWN									2000	
SP5	SURF	320	L	ND	ND	ND	ND	ND	387	11/14/2023
	2	400								
	4	320								
	6	320								
	8	240								
	10	480								
	12	400								
	14	400								
	16	400								
	18	320	L	ND	ND	ND	ND	ND	253	2/15/2024
			Maria II					1753.1		
SP6	SURF	240	L	ND	ND	ND	ND	ND	281	11/14/2023
	2	1040								
	4	800								
	6	320								
	8	160	L	ND	ND	ND	ND	ND	ND	2/16/2024
								ik io V	113	
SP7	SURF	160	L	ND	ND	ND	ND	ND	166	11/14/2023
	2	720								
	4	960								
	6	480								
	8	560								
	10	400								
	12	240								
	14	160	L	ND	ND	ND	ND	ND	ND	2/16/2024
	in the		W. Ter		3 2010	y 14.		E CH		Part Salari
SW1	SURF	160	L	ND	ND	ND	ND	ND	20.4	11/14/2023
	1	640								
	2	320								

	3	240	L	ND	ND	ND	ND	ND	128	2/16/2024
2-5 7	V.								压"/-	
SW2	SURF	400	L	ND	ND	ND	ND	ND	1630	11/14/2023
	1	720								
	2	320								
	3	160	L	ND	ND	ND	ND	ND	ND	2/16/2024
SW3	SURF	1360	L L	ND	ND	ND	ND	ND	453	11/14/2023
3773	1	640								
	2	400								
	3	1200								
	4	160								
	5	160	L	ND	ND	ND	ND	ND	ND	2/16/2024
is y										44/44/2022
SW4	SURF	480	L	ND	ND	ND	ND	ND	1310	11/14/2023
	1	720								
	2	720								
	3	560								
	4	320						_		
	5	880						-		
	6	400							205	2/45/2024
	7	320	L	ND	ND	ND	ND	ND	206	2/16/2024
SW5	SURF	1600	L	ND	ND	ND	ND	ND	775	11/14/2023
	1	960								
	2	640								
	3	640								
	4	560								
	5	400								
	6	320	L	ND	ND	ND	ND	ND	217	2/16/2024
SW6	SURF	240	L	ND	ND	ND	ND	ND	87.7	11/14/2023
3000	1	640		IND	IND	IND	110	110	07.7	11/11/2023
	2	720								
	3	960								
	4	480								
	5	320								
	6	240	L	ND	ND	ND	ND	ND	121	2/16/2024
		DE N	100 B							
SW7	SURF	160	L	ND	ND	ND	ND	ND	ND	11/14/2023
	1	800								

	2	640								
	3	640								
	4	160								1
	5	160	L	ND	ND	ND	ND	ND	ND	2/16/2024
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
SW8	SURF	400	L	ND	ND	ND	ND	ND	314	11/14/2023
	1	720								
	2	560								
	3	320								
	4	160	L	ND	ND	ND	ND	ND	ND	2/16/2024
			TI-SI							

Please see the delineation photos attached to this report.

On October 2nd, 2024, ESS sent the official notification to the NMOCD for the composite phase of the release on Spill B. On the same said date, the NMOCD received and accepted the notification for the composite phase of the release. (Please see email correspondence attached).

On October 14th, 2024, crews began obtaining 200 square foot composites from the excavation area of Spill B release. A total of 32 bottom hole composites were obtained, field tested, and submitted to Envirotech Laboratory for confirmation. One composite was returned with elevated chlorides. This area was then further excavated and retested. As you can see on the below composite sample data sheet, with the elevated composite in red then followed by the deeper composite that was obtained, passed the concentration levels for this site. Please find the composite sample data below, as well as attached to this report followed by the composite sample map and lab analysis.

Please find the remediation photos attached herein.

The impacted area of the Spill B release measured 2,494 square feet. During the remediation phase, a total of 1,940 cubic yards of contaminated soil was excavated and hauled to Gandy's Disposal. A total of 1,200 cubic yards of caliche was pushed up and hauled from Gandy's Disposal to location for backfill along with 120 cubic yards of topsoil that was pushed up and hauled from the landowners pit. The site was contoured and sloped back to its natural grade and seeded. Backfilling and seeding of the site was completed on January 13th, 2025. Please find the final photos attached to this report.

Closure Request

On behalf of Mack Energy, Energy Staffing Services, LLC requests that the incident (NAPP2327759229) be closed for the produced water release that occurred in the pasture area of the West Mount Spill B. Mack Energy and ESS certify that all information provided and that is detailed in this report to be true and correct. Both Mack Energy and ESS have complied with all applicable closure requirements for the release that occurred on the West Mount Spill B.

After reviewing this report, if you have any questions or concerns regarding this closure request, please do not hesitate to contact the undersigned at (575)390-6397 or (575)393-9048. You may also email any issues to natalie@energystaffingllc.com.

Sincerely,

Natalie Gladden

Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

2724 NW County Road

Hobbs, NM 88240

Cell: 575-390-6397 Office: 575-393-9048

Email: natalie@energystaffingllc.com



Attachments

Spill Notification

Initial C141 and Spill Calculator Form

Impact Map

Initial Site Photos

Site Map

Rangeland and Vegetation Classification

Soil Map

FEMA National Flood Hazard Layer Map

Karst Geology Map

Watercourse Water Map

Groundwater Information

Groundwater Map

OSE POD Map

Delineation Sample Data

Delineation Sample Map and GPS Log

Lab Analysis for Delineation

Delineation Site Photos

Composite Notification

Composite Sample Data

Composite Sample Map and GPS Log

Lab analysis for Remediation

Remediation and Final Photos

Final C141



FW: MACK ENERGY - WESTMOUNT FEDERAL COM #1 RELEASE'S

From Natalie Gladden <natalie@energystaffingllc.com>

Date Thu 1/30/2025 11:28 AM

To Brittney Corral <bri>brittney@energystaffingllc.com>

Natalie Gladden

Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

2724 NW County Road Hobbs, NM 88240 Cell: 575-390-6397 Office: 575-393-9048

Office: 575-393-9048

Email: natalie@energystaffingllc.com



From: Natalie Gladden

Sent: Tuesday, September 26, 2023 2:39 PM

To: ocdonline, emnrd, EMNRD <EMNRD.OCDOnline@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert,

EMNRD < Robert. Hamlet @ state.nm. us >; Harimon, Jocelyn, EMNRD < Jocelyn. Harimon @ emnrd.nm. gov >; Velez, Nelson, EMNRD < Jocelyn. Harimon @ emnrd.nm. gov >; Velez, Nelson, EMNRD < Jocelyn. Harimon @ emnrd.nm. gov >; Velez, Nelson, EMNRD < Jocelyn. Harimon @ emnrd.nm. gov >; Velez, Nelson, EMNRD < Jocelyn. Harimon @ emnrd.nm. gov >; Velez, Nelson, EMNRD < Jocelyn. Harimon @ emnrd.nm. gov >; Velez, Nelson, EMNRD < Jocelyn. Harimon @ emnrd.nm. gov >; Velez, Nelson, EMNRD < Jocelyn. Harimon @ emnrd.nm. gov >; Velez, Nelson, EMNRD < Jocelyn. Harimon @ emnrd.nm. gov >; Velez, Nelson, EMNRD < Jocelyn. Harimon @ emnrd.nm. gov >; Velez, Nelson, EMNRD < Jocelyn. Harimon @ emnrd.nm. gov >; Velez, Nelson, EMNRD < Jocelyn. Harimon @ emnrd.nm. gov >; Velez, Nelson, EMNRD < Jocelyn. Harimon @ emnrd.nm. gov >; Velez, Nelson, EMNRD < Jocelyn. Harimon @ emnrd.nm. gov >; Velez, Nelson & Jocelyn. Harimon @ emnrd.nm. gov >; Velez, Nelson & Jocelyn. Harimon @ emnrd.nm. gov >; Velez, Nelson & Jocelyn. Harimon & Jocelyn.

 $< Nelson. Velez@state.nm. us>; CFO_Spill, BLM_NM < BLM_NM_CFO_Spill@blm.gov>; Amos, James A < JAMOS@BLM.GOV>; staylor@blm.gov>; Amos, James A < JAMOS@Blm.gov>; Amos, Amos, Amos, Amos,$

Cc: mattbuckles@mec.com

Subject: RE: MACK ENERGY - WESTMOUNT FEDERAL COM #1 RELEASE'S

Here is the last of them. C141's will be finalized and uploaded shortly. I will send an update with Incident numbers when they are completed.

LOCATION	BBLS RELEASED	BBLS RECOVERED	LAT	LONG	INCIDENT NO.
WEST MOUNT #1 RELEASE	96.64	0	32.978491	-104.094969	NAPP2325464608
WEST MOUNT 9.14.23 RELEASE	206.76	0	32.98084	-104.12499	NAPP2326353635
WEST MOUNT 1A	156.17	0	32.97852	-104.09253	
WEST MOUNT 1B	341.08	0	32.97878	-104.090782	
WEST MOUNT SPILL A	84.53	0	33.000002	-104.070796	
WEST MOUNT SPILL B	16.35	0	32.999326	-104.071112	
WEST MOUNT SPILL C	30.56	0	32.988705	-104.072056	
WEST MOUNT SPILL D	23.97	0	32.997553	-104.070702	
WEST MOUNT SPILL E	6.21	0	32.995899	-104.070484	
WEST MOUNT SPILL F	52.01	0	32.993548	-104.06973	
WEST MOUNT SPILL G	39.14	0	32.99116	-104.069688	
WEST MOUNT SPILL H	32.78	0	32.98947	-104.069673	
WEST MOUNT SPILL I	5.55	0	32.977062	-104.07104	
WEST MOUNT SPILL J	9.57	0	32.987071	-104.07267	
WEST MOUNT SPILL K	137.04	0	32.986297	-104.073293	
WEST MOUNT SPILL L	5.63	0	32.980975	-104.076513	
WEST MOUNT SPILL M	4.33	0	32.980377	-104.077642	
WEST MOUNT SPILL N	27.95	0	32.980198	-104.07756	
WEST MOUNT SPILL O	37.6	0	32.97911	-104.07904	
WEST MOUNT SPILL P	11.47	0	32.978302	-104.086227	
WEST MOUNT SPILL Q	28.39	0	32.9785	-104.088419	
WEST MOUNT SPILL R	57.7	0	32.978615	-104.098708	
WEST MOUNT SPILL S	37.79	0	32.980236	-104.100214	
WEST MOUNT SPILL T	1.96	0	32.981999	-104.100329	

WEST MOUNT SPILL U	72.38	0	32.983718	-104.099543	
WEST MOUNT SPILL V	29.73	0	32.983887	-104.099136	
WEST MOUNT SPILL W	158.62	0	32.984507	-104.09919	
WEST MOUNT SPILL X	20.11	0	32.986417	-104.101312	
WEST MOUNT SPILL Y	18.18	0	32.987519	-104.102957	
WEST MOUNT SPILL Z	459.2	0	32.989524	-104.110031	
WEST MOUNT SPILL AA	14.97	0	32.988148	-104.11355	
WEST MOUNT SPILL BB	14.58	0	32.987211	-104.115205	
WEST MOUNT SPILL CC	25.44	0	32.983495	-104.119472	
WEST MOUNT SPILL DD	13.66	0	32.981861	-104.120784	

Natalie Gladden

Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

2724 NW County Road Hobbs, NM 88240 Cell: 575-390-6397 Office: 575-393-9048

Email: natalie@energystaffingllc.com



From: Natalie Gladden

Sent: Friday, September 22, 2023 4:12 PM

To: ocdonline, emnrd, EMNRD < EMNRD.OCDOnline@state.nm.us >; Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us >; Hamlet, Robert,

EMNRD < Robert. Hamlet@state.nm.us >; Harimon, Jocelyn, EMNRD < Jocelyn. Harimon@emnrd.nm.gov >; Velez, Nelson, EMNRD

<Nelson.Velez@state.nm.us>; CFO_Spill, BLM_NM <BLM_NM_CFO_Spill@blm.gov>; Amos, James A <JAMOS@BLM.GOV>; staylor@blm.gov

Cc: mattbuckles@mec.com

Subject: MACK ENERGY - WESTMOUNT FEDERAL COM #1 RELEASE'S

Importance: High

All,

On September 9th, Matt Buckles with Mack Energy reported a release at the Westmount #1 at 12:31pm by email. This incident report is NAPP2325464608. On September 14th, another report of a release was sent out also on the same line but in a different area, this incident report is NAPP2326353635. The frac line company known as Well Spring Automation, LLC is responsible for laying, maintaining, and removing said frac line and is contracted by Mack Energy to do so. After further investigation due to the sizes of two spills mentioned above, the following releases have been located, photo'd, and mapped. This is a large list of releases. We were not sure how to handle this as we are still finding the releases currently. As of right now we know of 23 releases that have occurred over the last two days. Crews are on site and documenting each release. As we are aware each release will have its own C141 and incident number. We will send out additional notifications as they become available, spills are located and documented. Each release will be handled individually moving forward. Below is the first set of releases that will be added to the Westmount Federal Com #1 list:

LOCATION	BBLS RELEASED	BBLS RECOVERED	LAT	LONG	INCIDENT NO.
WEST MOUNT #1 RELEASE	96.64	0	32.978491	-104.094969	NAPP2325464608
WEST MOUNT 9.14.23 RELEASE	206.76	0	32.98084	-104.12499	NAPP2326353635
WEST MOUNT 1A	156.17	0	32.97852	-104.12433	NAFF2320333033
WEST MOUNT 1B	341.08	0	32.97878	-104.090782	
WEST MOUNT SPILL A	84.53	0	33.000002	-104.070796	
WEST MOUNT SPILL B	16.35	0	32.999326	-104.071112	
WEST MOUNT SPILL C	30.56	0	32.988705	-104.072056	
WEST MOUNT SPILL D	23.97	0	32.997553	-104.070702	
WEST MOUNT SPILL E	6.21	0	32.995899	-104.070484	
WEST MOUNT SPILL F	52.01	0	32.993548	-104.06973	
WEST MOUNT SPILL G	39.14	0	32.99116	-104.069688	
WEST MOUNT SPILL H	32.78	0	32.98947	-104.069673	
WEST MOUNT SPILL I	5.55	0	32.977062	-104.07104	
WEST MOUNT SPILL J	9.57	0	32.987071	-104.07267	

WEST MOUNT SPILL K	137.04	0	32.986297	-104.073293	
WEST MOUNT SPILL L	5.63	0	32.980975	-104.076513	
WEST MOUNT SPILL M	4.33	0	32.980377	-104.077642	
WEST MOUNT SPILL N	27.95	0	32.980198	-104.07756	
WEST MOUNT SPILL O	37.6	0	32.97911	-104.07904	
WEST MOUNT SPILL P	11.47	0	32.978302	-104.086227	
WEST MOUNT SPILL Q	28.39	0	32.9785	-104.088419	
WEST MOUNT SPILL R	57.7	0	32.978615	-104.098708	
WEST MOUNT SPILL S	37.79	0	32.980236	-104.100214	

We will be making more updates as releases are found. C141's will be sent out to the BLM and uploaded to the NMOCD as soon as possible.

If you have any questions, please let me know.

Natalie Gladden

Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

2724 NW County Road Hobbs, NM 88240 Cell: 575-390-6397 Office: 575-393-9048

Email: natalie@energystaffingllc.com



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

Latitude 32.999326

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party MACK ENERGY CORPORATION	OGRID 013837
Contact Name MATT BUCKLES	Contact Telephone 575-703-1958
Contact email mattbuckles@mec.com	Incident # (assigned by OCD)
Contact mailing address 11344 Lovington Highway, Artesia I 88210	NM

Location of Release Source

(NAD 83 in decimal degrees to 5 decimal places)

Longitude -104.071112

Site Name W	EST MOU	NT SPILL B		Site Type	Site Type PRODUCTION AREA API# (if applicable) 30-005-64381				
Date Release	Discovered	9/20/2023		API# (if a					
Unit Letter	Section	Township	Range	Cou	County				
M	27	15S	28E	CHAVES					
urface Owner		☐ Federal ☐ 1	Nature ar	nd Volume of)			
Crude Oil		Volume Release		ch calculations or specif		he volumes provided below) covered (bbls)			
Produced	Water	Volume Releas	ed (bbls) 16.35		Volume Recovered (bbls)0BBLS				
		A STATE OF THE PROPERTY OF THE	ation of dissolved >10,000 mg/l?	chloride in the	ride in the Yes No				
Condensa	ate	Volume Releas			Volume Recovered (bbls)				
Natural G	as	Volume Releas	sed (Mcf)		Volume Recovered (Mcf)				
Other (de	escribe)	Volume/Weigh	t Released (prov	ide units)	Volume/We	eight Recovered (provide units)			
Cause of Rel	lease								
		npany Well Spri	ng found a failu	re on their lay flat	line, releasing	the fluid to the pasture area.			

Received by OCD: 8/20/2025 4:28:36 PMForm C-141 State of

State of New Mexico

Page 2

Oil Conservation Division

	Page 15 of 287
Incident ID	
District RP	
Facility ID	
Application ID	

	Application 1D
Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? DUE TO VOLUME OF RELEASE
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? to the OCD, Bratcher, Hamlet, Venegas, on 9/22 at 4:12pm
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
Released materials ha	ease has been stopped. as been secured to protect human health and the environment. ave been contained via the use of berms or dikes, absorbent pads, or other containment devices. ecoverable materials have been removed and managed appropriately. d above have not been undertaken, explain why:
has begun, please attach a within a lined containmen I hereby certify that the infor	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred t area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. mation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger
public health or the environmental failed to adequately investigated	nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have at and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws Title: DIRECTOR OF ENVIRONMENTAL AND REGULATORY Date: 10 4 23
OCD Only Received by:	Date:

MACK ENERGY - WEST MOUNT SPILL B

Soil Type	Porosity	Length	Width	Depth (.083 per inch)	Cubic Feet	Estimated Barrels	Soil Type
Clay	0.15	10	10	0.083	8.3	0.22	Clay
Peat	0.40	10	10	0.083	8.3	0.59	Peat
Glacial Sediments	0.13	10	10	0.083	8.3	0,19	Glacial Sediments
Sandy Clay	0.12	10	10	0.083	8.3	0.18	Sandy Clay
Silt	0.16	10	10	0.083	8.3	0.24	Silt
Loess	0.25	10	10	0.083	8.3	0.37	Loess
Fine Sand	0.16	10	10	0.083	8.3	0.24	Fine Sand
Medium Sand	0.25	95.43	46.32	0.083	366.88636	16.35	Medium Sand
Coarse Sand	0.26	10	10	0.083	8.3	0.38	Coarse Sand
Gravely Sand	0.26	10	10	0.083	8.3	0.38	Gravely Sand
Fine Gravel	0.26	10	10	0.083	8.3	0.38	Fine Gravel
Medium Gravel	0.20	10	10	0.083	8.3	0.30	Medium Gravel
Coarse Gravel	0.18	10	10	0.083	8.3	0.27	Coarse Gravel
Sandstone	0.25	10	10	0.083	8.3	0.37	Sandstone
Siltstone	0.18	10	10	0.083	8.3	0.27	Siltstone
Shale	0.05	10	10	0.083	8.3	0.07	Shale ·
Limestone	0.13	10	10	0.083	8.3	0.19	Limestone
Basalt	0.19	10	10	0.083	8.3	0.28	Basalt
Volcanic Tuff	0.20	10	10	0.083	8.3	0.30	Volcanic Tuff
Standing Liquids	X	10	10	0.083	8.3	1.48	Standing Liquids

1	2	3	4	5	6
0.083	0.166	0.250	0.332	0.415	0.500
7	8	9	10	11	12
			, 0	0.913	

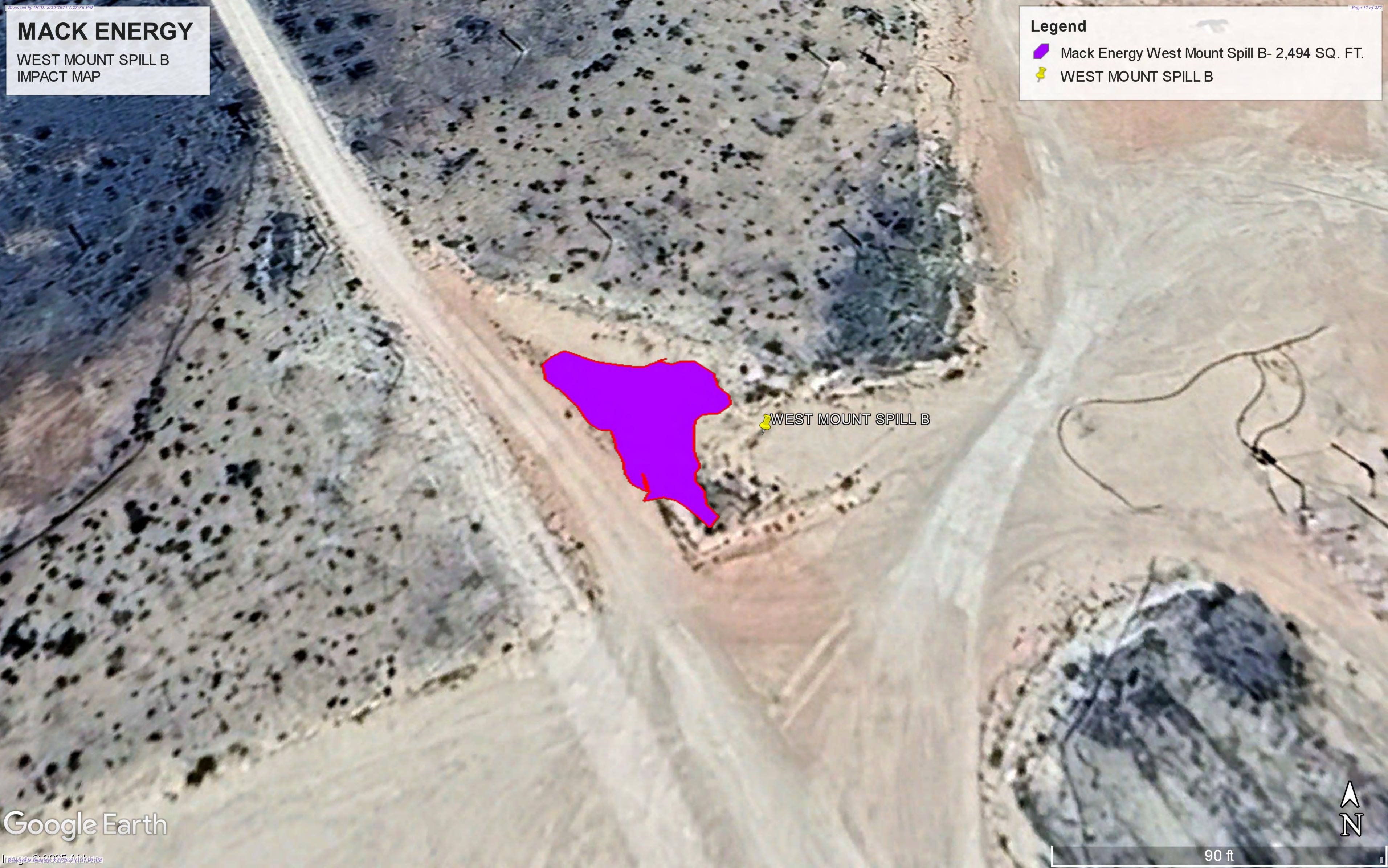
NOTE: This is an estimate tool designed for quick field estimates of whether a C-141 should be required (I.e. a release is estimated to be greater than or less than 5 barrel volumes)

Choose the one prevailing ground type for estimating spill volumes at a single location.

Note that the depth should be measured in feet and tenths of feet (1 inch = .083)

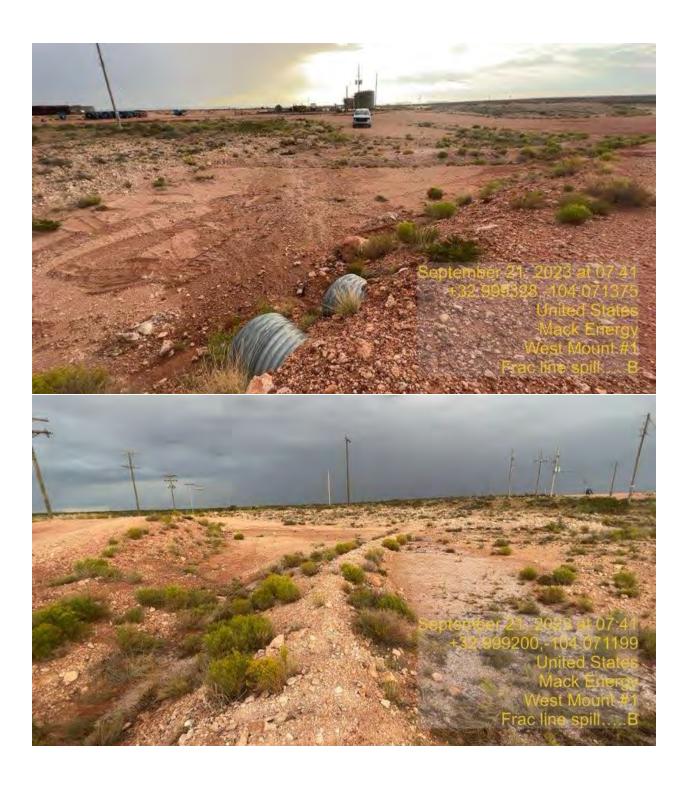
Cubic Feet = L x W x D

Estimated Barrels = ((Cubic Feet x Porosity) / 5.61)



MACK ENERGY: WEST MOUNT SPILL B INITIAL SITE PHOTOS











WEST MOUNT SPILL B

Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition

In areas that have similar climate and topography, differences in the kind and amount of rangeland or forest understory vegetation are closely related to the kind of soil. Effective management is based on the relationship between the soils and vegetation and water.

This table shows, for each soil that supports vegetation, the ecological site, plant association, or habitat type; the total annual production of vegetation in favorable, normal, and unfavorable years; the characteristic vegetation; and the average percentage of each species. An explanation of the column headings in the table follows.

An ecological site, plant association, or habitat type is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time throughout the soil development process; a characteristic hydrology, particularly infiltration and runoff that has developed over time; and a characteristic plant community (kind and amount of vegetation). The hydrology of the site is influenced by development of the soil and plant community. The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. The plant community on an ecological site, plant association, or habitat type is typified by an association of species that differs from that of other ecological sites, plant associations, or habitat types in the kind and/or proportion of species or in total production. Descriptions of ecological sites are provided in the Field Office Technical Guide, which is available in local offices of the Natural Resources Conservation Service (NRCS). Descriptions of plant associations or habitat types are available from local U.S. Forest Service offices.

Total dry-weight production is the amount of vegetation that can be expected to grow annually in a well managed area that is supporting the potential natural plant community. It includes all vegetation, whether or not it is palatable to grazing animals. It includes the current year's growth of leaves, twigs, and fruits of woody plants. It does not include the increase in stem diameter of trees and shrubs. It is expressed in pounds per acre of air-dry vegetation for favorable, normal, and unfavorable years. In a favorable year, the amount and distribution of precipitation and the temperatures make growing conditions substantially better than average. In a normal year, growing conditions are about average. In an unfavorable year, growing conditions are well below average, generally because of low available soil moisture. Yields are adjusted to a common percent of air-dry moisture content.

Characteristic vegetation (the grasses, forbs, shrubs, and understory trees that make up most of the potential natural plant community on each soil) is listed by common name. Under rangeland composition and forest understory, the expected percentage of the total annual production is given for each species making up the characteristic vegetation. The percentages are by dry weight for rangeland. Percentages for forest understory are by either dry weight or canopy cover. The amount that can be used as forage depends on the kinds of grazing animals and on the grazing season.

Range management requires knowledge of the kinds of soil and of the potential natural plant community. It also requires an evaluation of the present range similarity index and rangeland trend. Range similarity index is determined by comparing the present plant community with the potential natural plant community on a particular rangeland ecological site. The more closely the existing community resembles the potential community, the higher the range similarity index. Rangeland trend is defined as the direction of change in an existing plant community relative to the potential natural plant community. Further information about the range similarity index and rangeland trend is available in the "National Range and Pasture Handbook," which is available in local offices of NRCS or on the Internet.

The objective in range management is to control grazing so that the plants growing on a site are about the same in kind and amount as the potential natural plant community for that site. Such management generally results in the optimum production of vegetation, control of undesirable brush species, conservation of water, and control of erosion. Sometimes, however, an area with a range similarity index somewhat below the potential meets grazing needs, provides wildlife habitat, and protects soil and water resources.

Reference:

United States Department of Agriculture, Natural Resources Conservation Service, National range and pasture handbook.

Report—Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition

Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition–Chaves County, New Mexico, Southern Part											
Map unit symbol and soil	Ecological Site, Plant				Characteristic rangeland	Compositio					
name	Association, or Habitat Type	Favorable Normal year		Unfavorable year	or forest understory vegetation	n	Rangeland	Forest understory			
		Lb/ac	Lb/ac	Lb/ac		Pct dry wt	Pct dry wt				
Aa—Alama loam											
Alama	Loamy (R070BC007NM)	1,200	<u> </u>	650	Adonis blazingstar	30					
					black grama	15					
					other perennial grasses	15					
					blue grama	10					
					bush muhly	5					
					little bluestem	5					
					other shrubs	5					
					other perennial forbs	5					
					rabo de ardilla	5					
					threeawn	5					
					yucca	5					

Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition---Chaves County, New Mexico, Southern Part

WEST MOUNT SPILL B

Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition–Chaves County, New Mexico, Southern Part											
Map unit symbol and soil	Ecological Site, Plant	Total d	lry-weight prod	duction	Characteristic rangeland or forest understory vegetation	Compositio					
name	Association, or Habitat Type	Favorable year	Normal year	Unfavorable year		n	Rangeland	Forest understory			
		Lb/ac	Lb/ac	Lb/ac		Pct dry wt	Pct dry wt				
HrC—Holloman-Gypsum land complex, 3 to 5 percent slopes											
Holloman	Gyp Upland	800	600	375	alkali sacaton	45					
	(R070BB006NM)				black grama	10					
					coldenia	10					
					blue grama	5					
					fourwing saltbush	5					
					gyp dropseed	5					
					gypsum grama	5					
					other shrubs	5					
					other perennial forbs	5					
					other perennial grasses	5					
Gypsum land	_	_	_	_	_						

Data Source Information

Soil Survey Area: Chaves County, New Mexico, Southern Part

Survey Area Data: Version 18, Sep 7, 2023



Soil Map—Chaves County, New Mexico, Southern Part (WEST MOUNT SPILL B)

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features

Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow Marsh or swamp





Mine or Quarry Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot

â

Spoil Area Stony Spot



Very Stony Spot



Wet Spot Other



Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Chaves County, New Mexico, Southern Part Survey Area Data: Version 18, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Nov 12. 2022—Dec 2. 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

WEST MOUNT SPILL B

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
TS	Tencee-Sotim association	13.9	100.0%
Totals for Area of Interest		13.9	100.0%

Received by OCD: 8/20/2025 4:28:36 PM National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD **HAZARD AREAS** Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average

> areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X Area with Flood Risk due to Levee Zone D

depth less than one foot or with drainage

Area of Undetermined Flood Hazard Zone D

NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs

- - - Channel, Culvert, or Storm Sewer **GENERAL**

STRUCTURES | LILLI Levee, Dike, or Floodwall

20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect**

Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary

Coastal Transect Baseline OTHER Profile Baseline **FEATURES** Hydrographic Feature

> Digital Data Available No Digital Data Available

Unmapped

MAP PANELS

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/4/2024 at 2:45 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

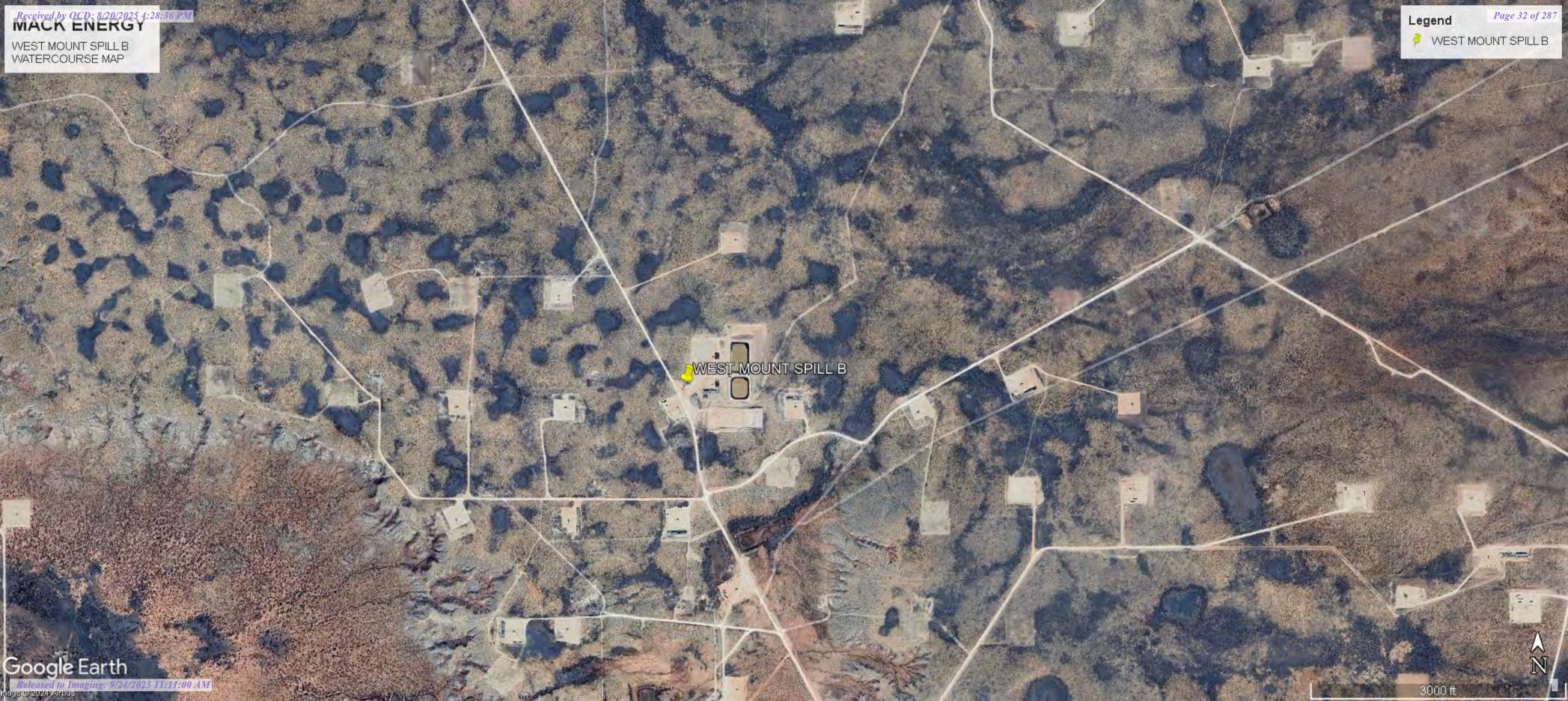
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



OReleasea To Imaging: 9/24/2025 PP.911:00 AM

2,000





Received by OCD: 8/20/2025 4:28:36 PM Page 33 of 287



New Mexico Office of the State Engineer **Wells with Well Log Information**

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 586775 Northing (Y): 3651595.34 Radius: 1000

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

6/4/24 12:48 PM WELLS WITH WELL LOG INFORMATION Page 1 of 1

Received by OCD: 8/20/2025 4:28:36 PM Page 34 of 287



New Mexico Office of the State Engineer **Wells with Well Log Information**

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 586775 Northing (Y): 3651595.34 Radius: 5000

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

6/4/24 12:49 PM WELLS WITH WELL LOG INFORMATION Page 1 of 1

Received by OCD: 8/20/2025 4:28:36 PM Page 35 of 287



New Mexico Office of the State Engineer Wells with Well Log Information

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

(R=POD has been replaced, O=orphaned,

C=the file is closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(in feet)

,	,		٠.				• ,		•		•	•	
POD Number	POD Sub- Code basin	County	Source	q q q		Twe Pna	x	v	Distance Start Date	Log File Finish Date Date	Depth Well	Depth Water Driller	License Number
I OD Nullibel	Code Dasiii	County	Jource	04104	360	I WS INING	^	·	Distance Start Date	I IIIISII Date Date	AACII	Water Driller	Nullibel
RA 12428	RA	СН	Shallow	4 2 1	21	15S 28E	580579	3652317 🎒	6237 07/28/2016	08/04/2016 08/08/2016	170	125 DONALD KUEHN III	1058
RA 09248	RA	СН	Shallow	1 4 3	17	15S 28E	578704	3652884*	8173 07/10/1996	07/13/1996 07/25/1996	150	45 RAYMOND ANDERSON	N 1344
RA 12429 POD1	RA	СН	Shallow	1 1 4	32	15S 28E	579093	3648401 🌑	8319 11/17/2016	11/17/2016 11/28/2016	62	27 EADES, ALAN	1044
RA 10280	RA	СН	Shallow	4 3 3	17	15S 28E	578501	3652680*	8344 06/20/2002	07/15/2002 04/23/2003	70	40 CARREON, FERNANDO	D 1490
RA 09059	RA	СН	Shallow	2 4 4	18	15S 28E	578099	3652875*	8769 11/13/1995	01/15/1996 02/08/1997	110	35 RAYMOND ANDERSON	N 1344
L 14514 POD1	L	LE	Shallow	2 2 1	32	15S 36E	595494	3649622	8939 08/09/2018	08/10/2018 08/17/2018	208	77 JOHN GOERTZEN	1611

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 586775 Northing (Y): 3651595.34 Radius: 10000

*UTM location was derived from PLSS - see Help

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

6/4/24 12:49 PM Page 1 of 1 WELLS WITH WELL LOG INFORMATION



New Mexico Office of the State Engineer **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

Υ X

RA 12428

21 15S 28E

580579 3652317

Driller License: 1058 **Driller Company:** KEY'S DRILLING & PUMP SERVICE

Driller Name: DONALD KUEHN III

Drill Start Date: 07/28/2016

4.50

Drill Finish Date:

Plug Date: 08/04/2016

Shallow

Log File Date:

08/08/2016

PCW Rcv Date:

Source:

Estimated Yield: 15 GPM

Pump Type: Casing Size: Pipe Discharge Size:

Depth Well:

170 feet

Depth Water:

125 feet

Water Bearing Stratifications:

Top Bottom Description

140 Sandstone/Gravel/Conglomerate

125 140

160 Sandstone/Gravel/Conglomerate

160

Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

125

170



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

RA 09248

1 4 3 17 15S 28E

578704 3652884*

Driller License: 1344 Driller Company: ANDERSON, RAYMOND

Driller Name: RAYMOND ANDERSON

Drill Start Date: 07/10/1996 Drill Finish Date: 07/13/1996 Plug Date:

Log File Date:07/25/1996PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Yield: 2 GPMCasing Size:4.50Depth Well:150 feetDepth Water:45 feet

Water Bearing Stratifications: Top Bottom Description

50 60 Sandstone/Gravel/Conglomerate

Casing Perforations: Top Bottom

45 100



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

RA 12429 POD1

32 15S 28E

579093

Driller License: 1044

5.13

Driller Company: EADES WELL DRILLING & PUMP SERVICE

Driller Name: EADES, ALAN

Drill Start Date: 11/17/2016

Drill Finish Date:

11/17/2016

Plug Date:

Log File Date:

11/28/2016

PCW Rcv Date:

Depth Well:

Source:

Shallow

Pump Type: Casing Size: Pipe Discharge Size:

Estimated Yield:

Depth Water:

27 feet

Water Bearing Stratifications:

Top Bottom Description

62 feet

33 Sandstone/Gravel/Conglomerate

27 33

Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

22

62

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



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

RA 10280

4 3 3 17 15S 28E

578501 3652680*

C)

Driller License: 1490 Driller Company: FERNANDO'S WATER WELL

Driller Name: CARREON, FERNANDO

Drill Start Date: 06/20/2002

Drill Finish Date:

07/15/2002 **F**

Plug Date:

Log File Date:

04/23/2003

PCW Rcv Date:

Source: Shallow

Pump Type:

SUBMER

Pipe Discharge Size: 1.25

Estimated Yield: 10 GPM

Casing Size:

5.00

Depth Well:

70 feet

Depth Water: 40 feet

Water Bearing Stratifications:

Top Bottom Description

1 70 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

40 70



New Mexico Office of the State Engineer Point of Diversion Summary

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

RA 09059

2 4 4 18 15S 28E

578099 3652875*

75* 🌍

Driller License: 1344

1344 **Driller Company:** ANDERSON, RAYMOND

Driller Name: RAYMOND ANDERSON

Drill Start Date: 11/13/1995

Drill Finish Date:

01/15/1996 Plug Date:

- ato.

Log File Date:

02/08/1997

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

4.50

Depth Well:

110 feet

Depth Water:

35 feet

Water Bearing Stratifications:

Top Bottom Description

60

65 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

30 90

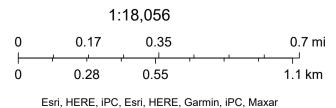


OSE POD Location Map





Stream River



Company: MACK ENERGY Location Name: WEST MOUNT SPILL B

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Dates
SP1	SURF	>4000	L	ND	ND	ND	ND	ND	4380	11/14/2023
	2	320								
	4	640								
	6	640								
	8	1200								
	10	400								
	12	240	L	ND	ND	ND	ND	ND	189	2/15/2024
SP2	SURF	1600	L	ND	ND	ND	ND	ND	2020	11/14/2023
	2	640								
	4	560								
	6	160								
	8	160	L	ND	ND	ND	ND	ND	46.7	2/15/2024
SP3	SURF	>4000	L	ND	ND	ND	ND	ND	5590	11/14/2023
	2	800								
	4	640								
	6	160								
	8	160								
	10	240								
	12	160								
	14	160	L	ND	ND	ND	ND	ND	29.6	2/15/2024
										,
SP4	SURF	1680	L	ND	ND	ND	ND	ND	2060	11/14/2023
	2	480								
	4	320								
	6	400							_	- 1 - 1
	8	320	L	ND	ND	ND	ND	ND	300	2/15/2024
									_	
SP5	SURF	320	L	ND	ND	ND	ND	ND	387	11/14/2023
	2	400								

	4	320								
	6	320								
	8	240								
	10	480								
	12	400								
	14	400								
	16	400								
	18	320	L	ND	ND	ND	ND	ND	253	2/15/2024
SP6	SURF	240	L	ND	ND	ND	ND	ND	281	11/14/2023
	2	1040								
	4	800								
	6	320								
	8	160	L	ND	ND	ND	ND	ND	ND	2/16/2024
SP7	SURF	160	L	ND	ND	ND	ND	ND	166	11/14/2023
	2	720								
	4	960								
	6	480								
	8	560								
	10	400								
	12	240								
	14	160	L	ND	ND	ND	ND	ND	ND	2/16/2024
SW1	SURF	160	L	ND	ND	ND	ND	ND	20.4	11/14/2023
	1	640								
	2	320								
	3	240	L	ND	ND	ND	ND	ND	128	2/16/2024
SW2	SURF	400	L	ND	ND	ND	ND	ND	1630	11/14/2023
	1	720								
	2	320								
	3	160	L	ND	ND	ND	ND	ND	ND	2/16/2024

SW3	SURF	1360	L	ND	ND	ND	ND	ND	453	11/14/2023
	1	640								
	2	400								
	3	1200								
	4	160								
	5	160	L	ND	ND	ND	ND	ND	ND	2/16/2024
SW4	SURF	480	L	ND	ND	ND	ND	ND	1310	11/14/2023
	1	720								
	2	720								
	3	560								
	4	320								
	5	880								
	6	400								
	7	320	L	ND	ND	ND	ND	ND	206	2/16/2024
SW5	SURF	1600	L	ND	ND	ND	ND	ND	775	11/14/2023
	1	960								
	2	640								
	3	640								
	4	560								
	5	400								
	6	320	L	ND	ND	ND	ND	ND	217	2/16/2024
SW6	SURF	240	L	ND	ND	ND	ND	ND	87.7	11/14/2023
	1	640								
	2	720								
	3	960								
	4	480								
	5	320								
	6	240	L	ND	ND	ND	ND	ND	121	2/16/2024
SW7	SURF	160	L	ND	ND	ND	ND	ND	ND	11/14/2023
	1	800								

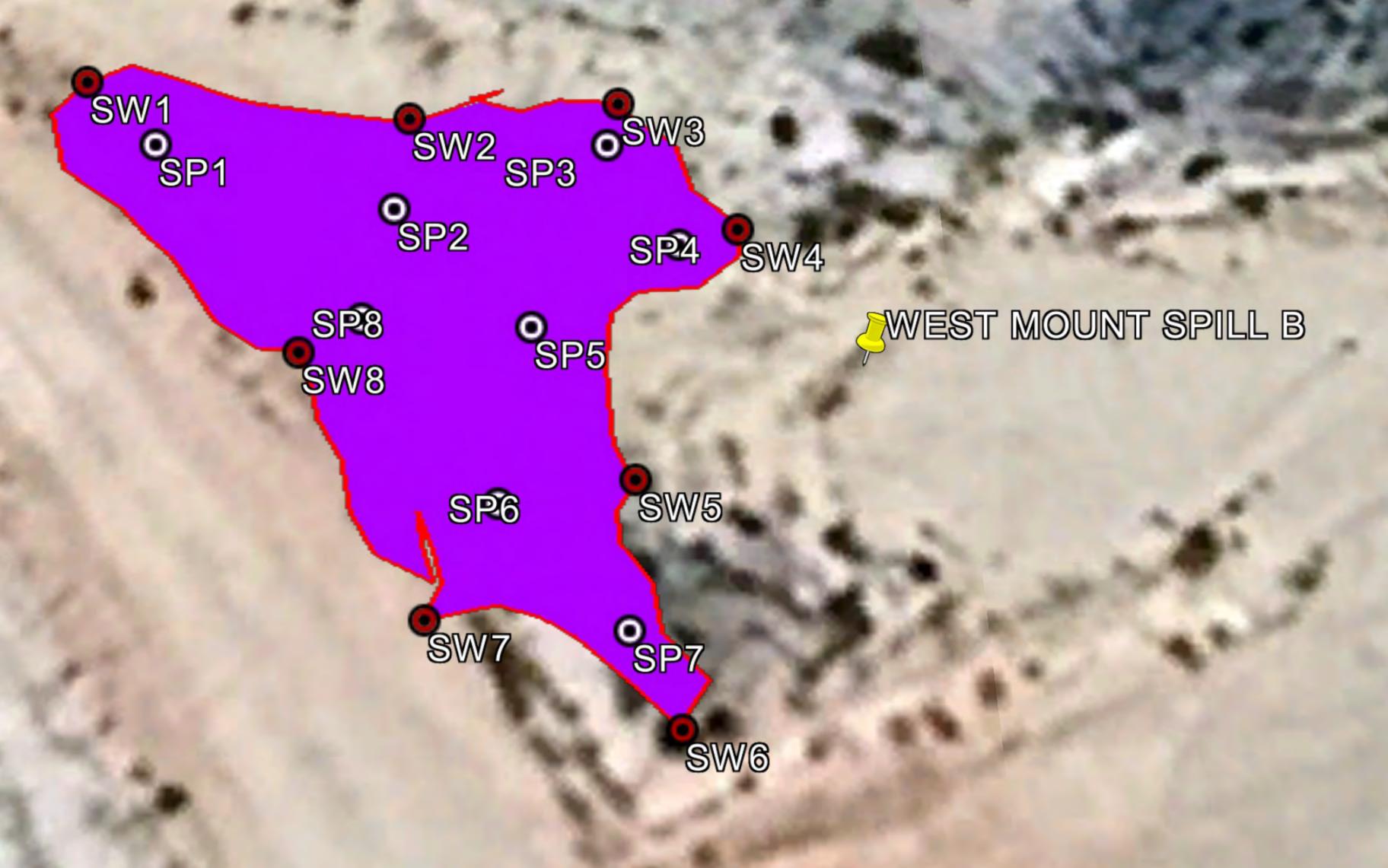
	2	640								
	3	640								
	4	160								
	5	160	L	ND	ND	ND	ND	ND	ND	2/16/2024
SW8	SURF	400	L	ND	ND	ND	ND	ND	314	11/14/2023
	1	720								
	2	560								
	3	320								
	4	160	L	ND	ND	ND	ND	ND	ND	2/16/2024

MACK ENERGY

WEST MOUNT SPILL B
DELINEATION MAP

Legend

- HORIZONTAL SAMPLE POINTS
- VERTICAL SAMPLE POINTS
- WEST MOUNT SPILL B



Google Earth

N

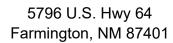
COMPANY: MACK ENERGY LOCATION: WEST MOUNT SPILL B

POINT	LATITUDE	LONGITUDE
SP1	32.999397°	-104.071337°
SP2	32.999374°	-104.071258°
SP3	32.999396°	-104.071189°
SP4	32.999361°	-104.071167°
SP5	32.999334°	-104.071214°
SP6	32.999279°	-104.071224°
SP7	32.999242°	-104.071186°
SP8	32.999337°	-104.071267°
SW1	32.999420°	-104.071362°
SW2	32.999406°	-104.071254°
SW3	32.999411°	-104.071185°
SW4	32.999366°	-104.071148°
SW5	32.999286°	-104.071183°
SW6	32.999215°	-104.071172°
SW7	32.999245°	-104.071245°
SW8	32.999326°	-104.071286°

Report to:

Natalie Gladden





Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: Frac Line Spill B

Work Order: E311129

Job Number: 20046-0001

Received: 11/16/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/17/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/17/23

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: Frac Line Spill B

Workorder: E311129

Date Received: 11/16/2023 9:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/16/2023 9:00:00AM, under the Project Name: Frac Line Spill B.

The analytical test results summarized in this report with the Project Name: Frac Line Spill B apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Sample Summary

Mack Energy	Project Name:	Frac Line Spill B	Panartad:
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/23 14:59

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1 SURFACE	E311129-01A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW2 SURFACE	E311129-02A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW3 SURFACE	E311129-03A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW4 SURFACE	E311129-04A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW5 SURFACE	E311129-05A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW6 SURFACE	E311129-06A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW7 SURFACE	E311129-07A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SW8 SURFACE	E311129-08A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.



Mack Energy	Project Name:	Frac Line Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 2:59:27PM

SW1 SURFACE E311129-01

		E311129-01					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Mayte			Dil			rmaryzed	
Volatile Organic Compounds by EPA 8260B	mg/kg mg/kg Ai		Analyst	RAS	Batch: 2346085		
Benzene	ND	0.0250		1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250		1	11/16/23	11/16/23	
Toluene	ND	0.0250		1	11/16/23	11/16/23	
o-Xylene	ND	0.0250		1	11/16/23	11/16/23	
p,m-Xylene	ND	0.0500		1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250		1	11/16/23	11/16/23	
Surrogate: Bromofluorobenzene		100 %	70-130		11/16/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130		11/16/23	11/16/23	
Surrogate: Toluene-d8		108 %	70-130		11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RAS		Batch: 2346085
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/16/23	11/16/23	
Surrogate: Bromofluorobenzene		100 %	70-130		11/16/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130		11/16/23	11/16/23	
Surrogate: Toluene-d8		108 %	70-130		11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: Љ		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	_	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0		1	11/16/23	11/16/23	
Surrogate: n-Nonane		91.1 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2346090
Chloride	20.4	20.0		1	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 2:59:27PM

SW2 SURFACE

Reporting Result Limit Dilution Prepared Analyzed Notes

		Reporting				
Analyte	Result	Limit	Dilut	tion Prepa	ared Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2346085
Benzene	ND	0.0250	1	11/10	6/23 11/16/23	
Ethylbenzene	ND	0.0250	1	11/10	6/23 11/16/23	
Toluene	ND	0.0250	1	11/10	6/23 11/16/23	
o-Xylene	ND	0.0250	1	11/10	6/23 11/16/23	
p,m-Xylene	ND	0.0500	1	11/10	6/23 11/16/23	
Total Xylenes	ND	0.0250	1	11/10	6/23 11/16/23	
Surrogate: Bromofluorobenzene	·	97.8 %	70-130	11/16	6/23 11/16/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/10	6/23 11/16/23	
Surrogate: Toluene-d8		108 %	70-130	11/16	6/23 11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2346085
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10	6/23 11/16/23	
Surrogate: Bromofluorobenzene		97.8 %	70-130	11/16	6/23 11/16/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/10	6/23 11/16/23	
Surrogate: Toluene-d8		108 %	70-130	11/16	6/23 11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10	6/23 11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10	6/23 11/16/23	
Surrogate: n-Nonane		92.5 %	50-200	11/10	6/23 11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA		Batch: 2346090
Chloride	1630	20.0	1	11/10	6/23 11/17/23	

Mack Energy	Project Name:	Frac Line Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 2:59:27PM

SW3 SURFACE

Reporting							
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst:	RAS		Batch: 2346085
Benzene	ND	0.0250	1		11/16/23	11/16/23	
Ethylbenzene	ND	0.0250	1		11/16/23	11/16/23	
Toluene	ND	0.0250	1		11/16/23	11/16/23	
o-Xylene	ND	0.0250	1		11/16/23	11/16/23	
p,m-Xylene	ND	0.0500	1		11/16/23	11/16/23	
Total Xylenes	ND	0.0250	1		11/16/23	11/16/23	
Surrogate: Bromofluorobenzene		95.1 %	70-130		11/16/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		11/16/23	11/16/23	
Surrogate: Toluene-d8		109 %	70-130		11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst:	RAS		Batch: 2346085
Gasoline Range Organics (C6-C10)	ND	20.0	1		11/16/23	11/16/23	
Surrogate: Bromofluorobenzene		95.1 %	70-130		11/16/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		11/16/23	11/16/23	
Surrogate: Toluene-d8		109 %	70-130		11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: .	JL		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1		11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1		11/16/23	11/16/23	
Surrogate: n-Nonane		86.8 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst:	BA		Batch: 2346090
Chloride	453	200	10)	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 2:59:27PM

SW4 SURFACE

		Reporting					
Analyte	Result	Limit	Dilı	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346085
Benzene	ND	0.0250		1	11/16/23	11/16/23	
Ethylbenzene	ND	0.0250		1	11/16/23	11/16/23	
Toluene	ND	0.0250		1	11/16/23	11/16/23	
o-Xylene	ND	0.0250		1	11/16/23	11/16/23	
p,m-Xylene	ND	0.0500		1	11/16/23	11/16/23	
Total Xylenes	ND	0.0250		1	11/16/23	11/16/23	
Surrogate: Bromofluorobenzene		98.1 %	70-130		11/16/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		11/16/23	11/16/23	
Surrogate: Toluene-d8		108 %	70-130		11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346085
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/16/23	11/16/23	
Surrogate: Bromofluorobenzene		98.1 %	70-130		11/16/23	11/16/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		11/16/23	11/16/23	
Surrogate: Toluene-d8		108 %	70-130		11/16/23	11/16/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0		1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0		1	11/16/23	11/16/23	
Surrogate: n-Nonane		87.9 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2346090



Mack Energy	Project Name:	Frac Line Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 2:59:27PM

SW5 SURFACE

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346085
Benzene	ND	0.0250		1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250		1	11/16/23	11/17/23	
Toluene	ND	0.0250		1	11/16/23	11/17/23	
o-Xylene	ND	0.0250		1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500		1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250		1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		97.4 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		109 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346085
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		97.4 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		109 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	ЛL		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0		1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0		1	11/16/23	11/16/23	
Surrogate: n-Nonane		89.6 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2346090



Mack Energy	Project Name:	Frac Line Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 2:59:27PM

SW6 SURFACE

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: R	AS		Batch: 2346085
Benzene	ND	0.0250	1		11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1		11/16/23	11/17/23	
Toluene	ND	0.0250	1		11/16/23	11/17/23	
o-Xylene	ND	0.0250	1		11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1		11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1		11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		95.5 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		109 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: R	AS		Batch: 2346085
Gasoline Range Organics (C6-C10)	ND	20.0	1		11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		95.5 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		109 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL			Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1		11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1		11/16/23	11/16/23	
Surrogate: n-Nonane		90.8 %	50-200		11/16/23	11/16/23	
1 - I - EDA 200 0/005CA	mg/kg	mg/kg	1	Analyst: BA	A		Batch: 2346090
Anions by EPA 300.0/9056A	88	8 8		-			



Mack Energy	Project Name:	Frac Line Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 2:59:27PM

SW7 SURFACE

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346085
Benzene	ND	0.0250		1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250		1	11/16/23	11/17/23	
Toluene	ND	0.0250		1	11/16/23	11/17/23	
o-Xylene	ND	0.0250		1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500		1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250		1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		98.1 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		107 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346085
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		98.1 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		107 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0		1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0		1	11/16/23	11/16/23	
Surrogate: n-Nonane		94.9 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2346090
Chloride	ND	20.0		1	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 2:59:27PM

SW8 SURFACE

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346085
Benzene	ND	0.0250	1	l	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		97.4 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		109 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RAS		Batch: 2346085
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		97.4 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		109 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/16/23	11/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	11/16/23	11/16/23	
Surrogate: n-Nonane		90.2 %	50-200		11/16/23	11/16/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2346090



Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

Surrogate: Toluene-d8

QC Summary Data

Frac Line Spill B Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 11/17/2023 2:59:27PM Volatile Organic Compounds by EPA 8260B Analyst: RAS Spike Source RPD Reporting Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2346085-BLK1) Prepared: 11/16/23 Analyzed: 11/16/23 ND 0.0250 ND Ethylbenzene 0.0250 ND Toluene 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: Bromofluorobenzene 0.501 0.500 100 70-130

LCS (2346085-BS1)						Prepared: 11/16/23 Analyzed: 11/16/23
Benzene	2.62	0.0250	2.50	105	70-130	
Ethylbenzene	2.68	0.0250	2.50	107	70-130	
Toluene	2.72	0.0250	2.50	109	70-130	
o-Xylene	2.52	0.0250	2.50	101	70-130	
p,m-Xylene	5.05	0.0500	5.00	101	70-130	
Total Xylenes	7.57	0.0250	7.50	101	70-130	
Surrogate: Bromofluorobenzene	0.474		0.500	94.7	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500	94.1	70-130	

0.500

0.500

0.500

100

110

106

70-130

70-130

70-130

0.502

0.550

0.530

Matrix Spike (2346085-MS1)				Source:	E311129-	03	Prepared: 11/16/23 Analyzed: 11/16/23
Benzene	2.61	0.0250	2.50	ND	104	48-131	
Ethylbenzene	2.66	0.0250	2.50	ND	106	45-135	
Toluene	2.71	0.0250	2.50	ND	109	48-130	
o-Xylene	2.52	0.0250	2.50	ND	101	43-135	
p,m-Xylene	5.08	0.0500	5.00	ND	102	43-135	
Total Xylenes	7.61	0.0250	7.50	ND	101	43-135	
Surrogate: Bromofluorobenzene	0.482		0.500		96.3	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130	
Surrogate: Toluene-d8	0.536		0.500		107	70-130	

Matrix Spike Dup (2346085-MSD1)	rix Spike Dup (2346085-MSD1)							Prepared: 11/16/23 Analyzed: 11/16/23			
Benzene	2.54	0.0250	2.50	ND	102	48-131	2.70	23			
Ethylbenzene	2.59	0.0250	2.50	ND	104	45-135	2.44	27			
Toluene	2.62	0.0250	2.50	ND	105	48-130	3.52	24			
o-Xylene	2.51	0.0250	2.50	ND	101	43-135	0.397	27			
p,m-Xylene	5.06	0.0500	5.00	ND	101	43-135	0.513	27			
Total Xylenes	7.57	0.0250	7.50	ND	101	43-135	0.474	27			
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130					
Surrogate: Toluene-d8	0.538		0.500		108	70-130					

QC Summary Data

Mack EnergyProject Name:Frac Line Spill BReported:7 W. Compress RoadProject Number:20046-0001Artesia NM, 88210Project Manager:Natalie Gladden11/17/20232:59:27PM

	Analyst: RAS								
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes

	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2346085-BLK1)							Prepared: 11	/16/23 Anal	lyzed: 11/16/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			
LCS (2346085-BS2)							Prepared: 1	/16/23 Anal	lyzed: 11/16/23
Gasoline Range Organics (C6-C10)	49.6	20.0	50.0		99.2	70-130			
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			
Matrix Spike (2346085-MS2)				Source:	E311129-0)3	Prepared: 1	/16/23 Anal	lyzed: 11/16/23
Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			
Matrix Spike Dup (2346085-MSD2)				Source:	E311129-0)3	Prepared: 1	/16/23 Anal	lyzed: 11/16/23
		20.0	50.0	ND	94.1	70-130	3.73	20	
Gasoline Range Organics (C6-C10)	47.0	20.0							
Gasoline Range Organics (C6-C10) Surrogate: Bromofluorobenzene	0.500	20.0	0.500		100	70-130			
		20.0			100 100	70-130 70-130			



QC Summary Data

Mack Energy	Project Name:	Frac Line Spill B	Reported:
7 W. Compress Road	Project Number:	20046-0001	·
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 2:59:27PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1			1	1/17/2023 2:59:27PI
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2346080-BLK1)							Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.7		50.0		95.5	50-200			
LCS (2346080-BS1)							Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	235	25.0	250		94.0	38-132			
Surrogate: n-Nonane	46.3		50.0		92.6	50-200			
Matrix Spike (2346080-MS1)				Source:	E311108-0	03	Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	45.7		50.0		91.5	50-200			
Matrix Spike Dup (2346080-MSD1)				Source:	E311108-0	03	Prepared: 1	1/16/23 An	alyzed: 11/16/23
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132	3.56	20	
Surrogate: n-Nonane	46.4		50.0		92.7	50-200			



QC Summary Data

Mack Energy		Project Name:		rac Line Spill I	3				Reported:
7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager:		20046-0001 Natalie Gladden					11/17/2023 2:59:27PM
		Anions	by EPA	300.0/9056A	<u>.</u>				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2346090-BLK1)							Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	ND	20.0							
LCS (2346090-BS1)							Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2346090-MS1)				Source: 1	E 311129- ()5	Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	1050	20.0	250	775	110	80-120			
Matrix Spike Dup (2346090-MSD1)				Source: 1	E 311129- ()5	Prepared:	11/16/23	Analyzed: 11/16/23
Chloride	1030	20.0	250	775	100	80-120	2.23	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

ſ	Mack Energy	Project Name:	Frac Line Spill B	
١	7 W. Compress Road	Project Number:	20046-0001	Reported:
١	Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/23 14:59

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Page	ı	of	1

Client: A	rule Fraci	Energy	4		Bill To		Total Control		La	ab Us	e Onl	ly				TA	ΑT	T	EPA P	rogram
Project:	Frac i	ine s	1113		Attention: ENERGY STAFFING SER	RVICES	Lab	WO#	A	W	Job N	Numl	ber	. 1D	2D	3D	Standar	t	CWA	SDWA
		Nato	uie C	aladden	Address: 2724 NW COUNTY RD		E	5111	2	6	200	341	0000		×	1				
Address					City, State, Zip HOBBS, NM 8824	0							nd Meth				413			RCRA
City, Sta	te, Zip				Phone: 575-393-9048												7.0	5		
Phone:					Email: NATALIE@ENERGYSTAFFING	LLC.COM	15	8015				4							State	
Email:					BRITTNEY@ENERGYSTAFFING	GLLC.COM	y 80	y 80	F !	0		0.0		=		1 1	NM (0 1	JT AZ	TX
Report	ue by:						30 b	30 6	8021	826	6010	e 300		Z	×		X			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by	втех бу	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC			R	Remarks	
	1/23/23	5	1	SWI ~	Surface	1								K						
				SW1 ~	urface	2								11						
				SW3.	surface	3														
				SW4 9	surface	4								1						
				SW5	surface	5														
				SW 6 -	Surface	0														
			1	SW1 5	viface	7														
	11/4/23	5	1	SW8 5	Surface surface	8								K						
Addition	al Instruc	ions:																		
I, (field sam	oler), attest to	the validity	and authenti	icity of this sample. I	am aware that tampering with or intentionally mislabe	lling the sample	location	on,	-								eived an ice the o		are sample	d or received
Relinquish	ed by: (Signa	ture)	Date	14/L3 Time	Received by: (Signature)	Date 115	23	Time	13	0	Rece	ived	on ice:		ab Us	se Onl	у			
	ed by: (Signa		Date		Received by: (Signature)	Date 11.10		Time			T1			T2	۰۰ ر		Т3			
Relinquish	ed by: (Signa	ture) /	Date	Time	Received by: (Signature)	Date		Time			AVG	Tem	n°C	4			- 7			
Sample Mat	rix: S - Soil, Sd	- Solid, Sg -	Sludge, A - A	queous, O - Other		Container	Type	· p - p	lass		_			her ala	SS V	VOA		-		
					nless other arrangements are made. Hazardou	s samples will	be ret	urned	to clie	ent or	dispos	ed of	at the cl	ent ev	ense	There	enort for the	nalve	is of the	hove
samples is	applicable o	nly to thos	e samples re	eceived by the labo	ratory with this COC. The liability of the laborate	notic limited to	than	mount	naid	for or	thore	nort	or tile ci	cin ext	clise.	mere	port for the	iiaiy5	is or the a	DOVE



Printed: 11/16/2023 10:48:53AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

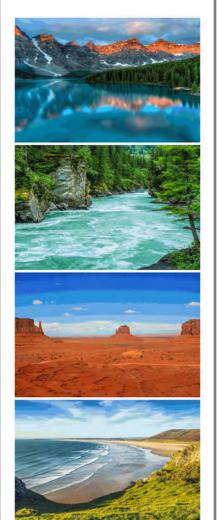
Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Mack Energy	Date Received:	11/16/23	09:00	,	Work Order ID:	E311129	
Phone:	(575) 390-6397	Date Logged In:	11/15/23	15:40		Logged In By:	Jordan Montano	
Email:	Natalie@energystaffingllc.com	Due Date:		17:00 (1 day TAT)		Logged III 2).	vorum monumo	
	<u> </u>			. , -/				
Chain of	Custody (COC)							
1. Does t	he sample ID match the COC?		Yes					
2. Does t	he number of samples per sampling site location mat	ch the COC	Yes					
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: C	Courier			
4. Was th	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	No	_				
5. Were a	ll samples received within holding time?		Yes					
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.			ŗ		Commen	ts/Resolution	
Sample 7	Turn Around Time (TAT)				7D' 1	1 .	11 0001	
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes		_	ed not prov	ided on COC by	
Sample (<u>Cooler</u>				client.			
7. Was a	sample cooler received?		Yes					
8. If yes,	was cooler received in good condition?		Yes					
9. Was th	e sample(s) received intact, i.e., not broken?		Yes					
	custody/security seals present?		No					
	, were custody/security seals intact?							
•	·	: 601200	NA					
12. was tr	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling		Yes					
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°	<u>C</u>					
Sample (Container							
	queous VOC samples present?		No					
	OC samples collected in VOA Vials?		NA					
	head space less than 6-8 mm (pea sized or less)?		NA					
	trip blank (TB) included for VOC analyses?		NA					
	on-VOC samples collected in the correct containers')	Yes					
	appropriate volume/weight or number of sample contain		Yes					
Field La		iers conceted:	103					
	field sample labels filled out with the minimum info	-mation						
	ample ID?	illiation.	Yes					
	Date/Time Collected?		Yes	l				
	collectors name?		Yes					
Sample 1	Preservation_							
	the COC or field labels indicate the samples were pr	reserved?	No					
22. Are s	ample(s) correctly preserved?		NA					
	filteration required and/or requested for dissolved m	netals?	No					
	ase Sample Matrix							
	the sample have more than one phase, i.e., multipha	se?	No					
	, does the COC specify which phase(s) is to be analy		No NA					
•		/20U:	NA					
	act Laboratory							
	amples required to get sent to a subcontract laborator		No					
29. Was a	subcontract laboratory specified by the client and it	so who?	NA	Subcontract Lab	o: NA			
Client I	<u>nstruction</u>							
							19-21	
Signat	ture of client authorizing changes to the COC or sample dis-	position.			Date		envi	rotech Inc

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: Frac Line Spill B

Work Order: E311131

Job Number: 20046-0001

Received: 11/16/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/17/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/17/23

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: Frac Line Spill B

Workorder: E311131

Date Received: 11/16/2023 9:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/16/2023 9:00:00AM, under the Project Name: Frac Line Spill B.

The analytical test results summarized in this report with the Project Name: Frac Line Spill B apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	Frac Line Spill B	Donoutoda
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/23 15:15

Client Sample ID	Lab Sample ID M	Matrix	Sampled	Received	Container
SP1-SURF	E311131-01A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP2-SURF	E311131-02A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP3-SURF	E311131-03A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP4-SURF	E311131-04A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP5-SURF	E311131-05A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP6-SURF	E311131-06A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.
SP7-SURF	E311131-07A	Soil	11/14/23	11/16/23	Glass Jar, 2 oz.



Mack Energy	Project Name:	Frac Line Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:15:19PM

SP1-SURF E311131-01

		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS		: RAS		Batch: 2346085
Benzene	ND	0.0250		1	11/16/23	11/17/23	
Ethylbenzene	ND 0.0250			1	11/16/23	11/17/23	
Toluene	ND	ND 0.0250		1	11/16/23	11/17/23	
o-Xylene	ND	0.0250		1	11/16/23	11/17/23	
p,m-Xylene	ND 0.0500			1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250		1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		97.5 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		109 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg mg/kg Analyst: RAS		Batch: 2346085				
Gasoline Range Organics (C6-C10)	ND	20.0	:	1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		97.5 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		109 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: Љ		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0		1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0		1	11/16/23	11/17/23	
Surrogate: n-Nonane		80.9 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: BA		Batch: 2346100
Chloride	4380	100		5	11/16/23	11/17/23	·



Mack Energy	Project Name:	Frac Line Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:15:19PM

SP2-SURF E311131-02

		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst:	RAS		Batch: 2346085
Benzene	ND	0.0250	1		11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1		11/16/23	11/17/23	
Toluene	ND	0.0250	1		11/16/23	11/17/23	
o-Xylene	ND	0.0250	1		11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1		11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1		11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		98.3 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		109 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	mg/kg Analyst: RAS		RAS		Batch: 2346085
Gasoline Range Organics (C6-C10)	ND	20.0	1		11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		98.3 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		109 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: .	ΙL		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1		11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1		11/16/23	11/17/23	
Surrogate: n-Nonane		88.5 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst:	BA		Batch: 2346100
Chloride	2020	200	10	`	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:15:19PM

SP3-SURF E311131-03

D. I	Reporting			D 1		N.
Result	Limit	Dili	ution	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst:	RAS		Batch: 2346085
ND	0.0250		1	11/16/23	11/17/23	
ND	0.0250		1	11/16/23	11/17/23	
ND	0.0250		1	11/16/23	11/17/23	
ND	0.0250		1	11/16/23	11/17/23	
ND	0.0500		1	11/16/23	11/17/23	
ND	0.0250		1	11/16/23	11/17/23	
	99.0 %	70-130		11/16/23	11/17/23	
	98.6 %	70-130		11/16/23	11/17/23	
	109 %	70-130		11/16/23	11/17/23	
mg/kg	mg/kg	Analyst: RAS			Batch: 2346085	
ND	20.0		1	11/16/23	11/17/23	
	99.0 %	70-130		11/16/23	11/17/23	
	98.6 %	70-130		11/16/23	11/17/23	
	109 %	70-130		11/16/23	11/17/23	
mg/kg	mg/kg		Analyst:	JL		Batch: 2346080
ND	25.0	-	1	11/16/23	11/17/23	-
ND	50.0		1	11/16/23	11/17/23	
	86.9 %	50-200		11/16/23	11/17/23	
mg/kg	mg/kg		Analyst:	BA		Batch: 2346100
5590	200	1	10	11/16/23	11/17/23	
	ND Mg/kg ND Mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 99.0 % 98.6 % 109 % 109 % mg/kg mg/kg ND 20.0 99.0 % 98.6 % 109 % 109 % mg/kg mg/kg ND 25.0 ND 50.0 86.9 % mg/kg mg/kg mg/kg	Result Limit Dil mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 PM 0.0250 MD 0.0250 99.0 % 70-130 109 % 70-130 mg/kg mg/kg ND 20.0 99.0 % 70-130 98.6 % 70-130 109 % 70-130 mg/kg mg/kg ND 25.0 ND 50.0 86.9 % 50-200 mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Analyst: ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 99.0 % 70-130 98.6 % 70-130 109 % 70-130 mg/kg mg/kg Analyst: ND 20.0 1 99.0 % 70-130 1 mg/kg mg/kg Analyst: ND 25.0 1 ND 50.0 1 86.9 % 50-200 mg/kg Mg/kg Analyst:	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RAS ND 0.0250 1 11/16/23 ND 0.0250 1 11/16/23 ND 0.0250 1 11/16/23 ND 0.0500 1 11/16/23 ND 0.0250 1 11/16/23 ND 0.0250 1 11/16/23 99.0 % 70-130 11/16/23 98.6 % 70-130 11/16/23 109 % 70-130 11/16/23 99.0 % 70-130 11/16/23 99.0 % 70-130 11/16/23 98.6 % 70-130 11/16/23 109 % 70-130 11/16/23 109 % 70-130 11/16/23 109 % 70-130 11/16/23 109 % 70-130 11/16/23 109 % 70-130 11/16/23 100 % 70-130 11/16/23 100 % 70-130 11/16/	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RAS ND 0.0250 1 11/16/23 11/17/23 ND 0.0500 1 11/16/23 11/17/23 ND 0.0250 1 11/16/23 11/17/23 ND 0.0250 1 11/16/23 11/17/23 99.0 % 70-130 11/16/23 11/17/23 109 % 70-130 11/16/23 11/17/23 109 % 70-130 11/16/23 11/17/23 98.6 % 70-130 11/16/23 11/17/23 109 % 70-130 11/16/23 11/17/23 109 % 70-130 11/16/23 11/17/23 109 % 70-130 11/16/23 11/17/23 109 %



Mack Energy	Project Name:	Frac Line Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:15:19PM

SP4-SURF E311131-04

		2011101 01					
Analyte	Result	Reporting Limit	Dilut	tion I	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS	<u>.</u> S		Batch: 2346085
Benzene	ND	0.0250	1		11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	. 1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	. 1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	. 1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1		11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	. 1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		96.8 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		109 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RAS	S		Batch: 2346085
Gasoline Range Organics (C6-C10)	ND	20.0	1	. 1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		96.8 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		109 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: JL			Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1	. 1	11/16/23	11/17/23	-
Oil Range Organics (C28-C36)	ND	50.0	1	. 1	11/16/23	11/17/23	
Surrogate: n-Nonane		89.4 %	50-200	ı	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA			Batch: 2346100
Chloride	2060	40.0	2	! 1	11/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:15:19PM

SP5-SURF E311131-05

		Reporting					
Analyte	Result	Limit	Dilut	tion P	repared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RAS			Batch: 2346085
Benzene	ND	0.0250	1	1	1/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	1	1/16/23	11/17/23	
Toluene	ND	0.0250	1	1	1/16/23	11/17/23	
o-Xylene	ND	0.0250	1	1	1/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	1	1/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	1	1/16/23	11/17/23	
Surrogate: Bromofluorobenzene		97.9 %	70-130	1	1/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	1	1/16/23	11/17/23	
Surrogate: Toluene-d8		107 %	70-130	1	1/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RAS	1		Batch: 2346085
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	1/16/23	11/17/23	
Surrogate: Bromofluorobenzene		97.9 %	70-130	1	1/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	70-130	1	1/16/23	11/17/23	
Surrogate: Toluene-d8		107 %	70-130	1	1/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL			Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1	1	1/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	1/16/23	11/17/23	
Surrogate: n-Nonane		101 %	50-200	1	1/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA			Batch: 2346100
Chloride	387	20.0	1	1	1/16/23	11/17/23	



Mack Energy	Project Name:	Frac Line Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:15:19PM

SP6-SURF E311131-06

		1.511151-00					
Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RA	•		Batch: 2346085
Benzene	ND	0.0250	1		11/16/23	11/17/23	Batch. 23 10003
Ethylbenzene	ND	0.0250			11/16/23	11/17/23	
Toluene	ND	0.0250	1		11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		98.0 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		109 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RA	.S		Batch: 2346085
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		98.0 %	70-130		11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130		11/16/23	11/17/23	
Surrogate: Toluene-d8		109 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	-	Analyst: JL			Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	11/16/23	11/17/23	
Surrogate: n-Nonane		94.7 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA	L		Batch: 2346100
Chloride	281	20.0	1	1	11/16/23	11/17/23	
Cinoriae		_0.0					



Mack Energy	Project Name:	Frac Line Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:15:19PM

SP7-SURF E311131-07

		1511151-07				
Analyte	Result	Reporting Limit	Dilut	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2346085
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		98.3 %	70-130	11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	11/16/23	11/17/23	
Surrogate: Toluene-d8		109 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2346085
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: Bromofluorobenzene		98.3 %	70-130	11/16/23	11/17/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	11/16/23	11/17/23	
Surrogate: Toluene-d8		109 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2346080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/17/23	-
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane		95.5 %	50-200	11/16/23	11/17/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2346100
Chloride	166	20.0	1	11/16/23	11/17/23	



Frac Line Spill B Mack Energy Project Name: Reported: Project Number: 7 W. Compress Road 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 11/17/2023 3:15:19PM **Volatile Organic Compounds by EPA 8260B** Analyst: RAS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2346085-BLK1) Prepared: 11/16/23 Analyzed: 11/16/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.501 0.500 100 70-130 Surrogate: 1,2-Dichloroethane-d4 0.502 0.500 100 70-130 0.500 110 70-130 Surrogate: Toluene-d8 0.550 LCS (2346085-BS1) Prepared: 11/16/23 Analyzed: 11/16/23 2.62 0.0250 2.50 105 70-130 Benzene 2.50 107 70-130 2.68 Ethylbenzene 0.0250 2.72 0.0250 2.50 109 70-130 70-130 2.52 0.0250 2.50 101 o-Xylene 5.05 5.00 101 70-130 p,m-Xylene 0.0500 7.57 0.0250 7.50 101 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.474 0.500 94.7 70-130 0.500 94.1 70-130 Surrogate: 1,2-Dichloroethane-d4 0.471 70-130 Surrogate: Toluene-d8 0.500 0.530 Matrix Spike (2346085-MS1) Source: E311129-03 Prepared: 11/16/23 Analyzed: 11/16/23 48-131 2.61 0.0250 2.50 ND 45-135 Ethylbenzene 2.66 0.0250 2.50 ND 106 ND 48-130 Toluene 2.71 0.0250 2.50 109 2.52 0.0250 2.50 ND 101 43-135 o-Xylene 5.00 ND 102 43-135 p,m-Xylene 5.08 0.0500 Total Xylenes 7.61 0.0250 7.50 ND 101 43-135 Surrogate: Bromofluorobenzene 0.482 0.500 96.3 70-130 0.493 0.500 98.6 70-130 Surrogate: 1,2-Dichloroethane-d4 0.500 70-130 0.536 Surrogate: Toluene-d8 Matrix Spike Dup (2346085-MSD1) Source: E311129-03 Prepared: 11/16/23 Analyzed: 11/16/23 2.54 0.0250 2.50 ND 102 48-131 2.70 23



Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

2.59

2.62

2.51

5.06

7.57

0.493

0.485

0.538

0.0250

0.0250

0.0250

0.0500

0.0250

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

ND

ND

ND

ND

ND

105

101

101

101

98.5

97.0

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

2.44

3.52

0.397

0.513

0.474

27

24

27

27

27

Mack EnergyProject Name:Frac Line Spill BReported:7 W. Compress RoadProject Number:20046-0001Artesia NM, 88210Project Manager:Natalie Gladden11/17/20233:15:19PM

Nonhalogenated	Organice	by FDA	2015D	CPO
Nonnaiogenateu	Organics	UyEIA	0013D -	GIVO

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	Result	Limit	Level	Result	Rec	Limits	KPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2346085-BLK1)							Prepared: 11	/16/23 Anal	yzed: 11/16/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			
LCS (2346085-BS2)							Prepared: 11	/16/23 Anal	yzed: 11/16/23
Gasoline Range Organics (C6-C10)	49.6	20.0	50.0		99.2	70-130	·	·	
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			
Matrix Spike (2346085-MS2)				Source:	E311129-0)3	Prepared: 11	/16/23 Anal	yzed: 11/16/23
Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130			
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			
Matrix Spike Dup (2346085-MSD2)				Source:	E311129-0)3	Prepared: 11	/16/23 Anal	yzed: 11/16/23
Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	94.1	70-130	3.73	20	
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.549		0.500		110	70-130			



Mack Energy	Project Name:	Frac Line Spill B	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/2023 3:15:19PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1			1	11/17/2023 3:15:19PN
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2346080-BLK1)							Prepared: 1	1/16/23 Ar	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.7		50.0		95.5	50-200			
LCS (2346080-BS1)							Prepared: 1	1/16/23 Ar	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	235	25.0	250		94.0	38-132			
Surrogate: n-Nonane	46.3		50.0		92.6	50-200			
Matrix Spike (2346080-MS1)				Source:	E311108-0)3	Prepared: 1	1/16/23 Ar	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	45.7		50.0		91.5	50-200			
Matrix Spike Dup (2346080-MSD1)				Source:	E311108-0)3	Prepared: 1	1/16/23 Ar	nalyzed: 11/16/23
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132	3.56	20	
Surrogate: n-Nonane	46.4		50.0		92.7	50-200			



Mack Energy 7 W. Compress Road		Project Name: Project Number:		rac Line Spill B	1				Reported:
Artesia NM, 88210		Project Manager:		atalie Gladden					11/17/2023 3:15:19PM
		Anions	by EPA	300.0/9056A					Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2346100-BLK1)							Prepared:	11/16/23	Analyzed: 11/17/23
Chloride	ND	20.0							
LCS (2346100-BS1)							Prepared:	11/16/23	Analyzed: 11/17/23
Chloride	244	20.0	250		97.6	90-110			
Matrix Spike (2346100-MS1)				Source: F	2311131-0)3	Prepared:	11/16/23	Analyzed: 11/17/23
Chloride	5630	200	250	5590	16.6	80-120			M4
Matrix Spike Dup (2346100-MSD1)				Source: F	E311131-()3	Prepared:	11/16/23	Analyzed: 11/17/23
Chloride	5850	200	250	5590	103	80-120	3.76	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

ſ	Mack Energy	Project Name:	Frac Line Spill B	
١	7 W. Compress Road	Project Number:	20046-0001	Reported:
١	Artesia NM, 88210	Project Manager:	Natalie Gladden	11/17/23 15:15

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



SDWA

RCRA

EPA Program

CWA

TAT

3D Standard

1D 2D

Bill To
Attention: ENERGY STAFFING SERVICES

Address: 2724 NW COUNTY RD City, State, Zip HOBBS, NM 88240

Phone: 575-393-9048

Lab Use Only

Job Number

2001/0-000

Analysis and Method

Lab WO# E31113

none:						Email: NATALIE@EN	IERGYSTAFFINGLI	.C.COM	15	15										State	-
mail:						BRITTNEY@E	NERGYSTAFFING	LC.COM	by 8015	oy 80	21	00	0	300.0		NN				UT AZ	TX
eport d	ue by:								NO.	NO I	y 80	y 826	6010	de 30			TX		8		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	DRO/ORO	GRO/DRO by 8015	ВТЕХ БУ 8021	VOC by 8260	Metals	Chloride		верос	верос			Remarks	
	1/14/23	S	1	SP 1-	Sunt			1								6					
				Spa-	Surt			2													
			1	DP3 -	swit	5		3													
				क्रिय -	Sur	7		4													
				OP5-	sunt			5													
	<u> </u>			200-	Swit			0								1					
	11/4/23	S	1	SP7-	- Swit			7								p					
																		1			
ddition	al Instruc	tions:							-	-											
				ticity of this sa		sware that tampering with or ction. Sample	intentionally mislabell	ing the sample											ed on ice the day on subsequent d	they are sampled lays.	d or receive
elinquish	ed by: (Sign:		Date	4/23	Time	Received by: (Sign		Date 11-15-0	23	Time	130	0	Rec	eived c	n ice:	(Y	1	se Only			
elinquish MW	ed by: (Sign)	ature)	Date		Time	Received by: (Sign	ature	Date 11.10	:23	Time	1:0	CX	T1			T2			<u>T3</u>		
elinquish	ed by: (Sign	aturé)	Date		Time	Received by: (Sign	ature	Date		Time			AVG	Temp	°c L	+					
mple Ma	trix: S - Soil, Se	d - Solid, Sg -	- Sludge, A - A	Aqueous, O - C	ther			Containe	г Тур	e: g - 1	glass,	p - p	oly/p	lastic, a	g - amb	er gla	55, V -	VOA			
ote: Sam	ples are disc	arded 30 c	days after re	esults are rep	orted unle	ss other arrangements ar	e made. Hazardous												ort for the an	alysis of the a	bove
						on, with this COC The liah															



Printed: 11/16/2023 10:49:38AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client						
Client:	Mack Energy	Date Received:	11/16/23	09:00	Work Order ID:	E311131
Phone:	(575) 390-6397	Date Logged In:	11/16/23	08:11	Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Oue Date:	11/17/23	17:00 (1 day TAT)		
Chain of C	Custody (COC)					
1. Does the	e sample ID match the COC?		Yes			
2. Does the	e number of samples per sampling site location match	h the COC	Yes			
3. Were sa	mples dropped off by client or carrier?		Yes	Carrier: C	<u>courier</u>	
4. Was the	COC complete, i.e., signatures, dates/times, requeste	ed analyses?	No	_		
5. Were all	samples received within holding time? Note: Analysis, such as pH which should be conducted in ti.e, 15 minute hold time, are not included in this disucssion		Yes		<u>Commen</u>	ts/Resolution
Sample Ti	urn Around Time (TAT)	•		[
	COC indicate standard TAT, or Expedited TAT?		Yes		Time sampled is not pr	ovided on the COC
Sample C	· •				by client.	
_	ample cooler received?		Yes		•	
	vas cooler received in good condition?		Yes			
9. Was the	sample(s) received intact, i.e., not broken?		Yes			
	ustody/security seals present?		No			
	were custody/security seals intact?		NA NA			
12. Was the	sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are minutes of sampling	received w/i 15	Yes			
13. If no v	isible ice, record the temperature. Actual sample to	emperature: 4°	<u>C</u>			
Sample C						
•	ueous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	nead space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	n-VOC samples collected in the correct containers?		Yes			
	ppropriate volume/weight or number of sample containe	rs collected?	Yes			
Field Lab						
	ield sample labels filled out with the minimum informing ID?	паноп:	Yes			
	tte/Time Collected?		Yes	Į		
	illectors name?		Yes			
Sample Pi	<u>reservation</u>					
21. Does the	he COC or field labels indicate the samples were pre-	served?	No			
22. Are sa	mple(s) correctly preserved?		NA			
24. Is lab f	ilteration required and/or requested for dissolved me	tals?	No			
Multiphas	se Sample Matrix					
26. Does t	he sample have more than one phase, i.e., multiphase	?	No			
27. If yes,	does the COC specify which phase(s) is to be analyz	ed?	NA			
Subcontra	act Laboratory					
	mples required to get sent to a subcontract laboratory	?	No			
28. Are sar			NA	Subcontract Lab	: NA	
	subcontract laboratory specified by the client and if s					

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill B

Work Order: E402156

Job Number: 20046-0001

Received: 2/17/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/20/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/20/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount Spill B

Workorder: E402156

Date Received: 2/17/2024 6:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/17/2024 6:30:00AM, under the Project Name: West Mount Spill B.

The analytical test results summarized in this report with the Project Name: West Mount Spill B apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Sample Summary

Mack Energy	Project Name:	West Mount Spill B	Donoutoda
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	02/20/24 14:44

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SP 1 - 12'	E402156-01A Soil	02/15/24	02/17/24	Glass Jar, 2 oz.
SP 2 - 8'	E402156-02A Soil	02/15/24	02/17/24	Glass Jar, 2 oz.
SP 3 - 14'	E402156-03A Soil	02/15/24	02/17/24	Glass Jar, 2 oz.
SP 4 - 8'	E402156-04A Soil	02/15/24	02/17/24	Glass Jar, 2 oz.
SP 5 - 18'	F402156-05A Soil	02/15/24	02/17/24	Glass Jar. 2 oz.



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/20/2024 2:44:42PM

SP 1 - 12' E402156-01

		E402156-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2408006
Benzene	ND	0.0250	1	02/19/24	02/19/24	
Ethylbenzene	ND	0.0250	1	02/19/24	02/19/24	
Toluene	ND	0.0250	1	02/19/24	02/19/24	
o-Xylene	ND	0.0250	1	02/19/24	02/19/24	
p,m-Xylene	ND	0.0500	1	02/19/24	02/19/24	
Total Xylenes	ND	0.0250	1	02/19/24	02/19/24	
Surrogate: 4-Bromochlorobenzene-PID		92.9 %	70-130	02/19/24	02/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2408006
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/19/24	02/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	70-130	02/19/24	02/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2408009
Diesel Range Organics (C10-C28)	ND	25.0	1	02/19/24	02/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/19/24	02/20/24	
Surrogate: n-Nonane		95.4 %	50-200	02/19/24	02/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: IY		Batch: 2408023
Chloride	189	20.0	1	02/19/24	02/19/24	



Sample Data

Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/20/2024 2:44:42PM

SP 2 - 8'

		E402156-02					
Reporting							
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2408006	
Benzene	ND	0.0250	1	02/19/24	02/19/24		
Ethylbenzene	ND	0.0250	1	02/19/24	02/19/24		
Toluene	ND	0.0250	1	02/19/24	02/19/24		
o-Xylene	ND	0.0250	1	02/19/24	02/19/24		
p,m-Xylene	ND	0.0500	1	02/19/24	02/19/24		
Total Xylenes	ND	0.0250	1	02/19/24	02/19/24		
Surrogate: 4-Bromochlorobenzene-PID		93.2 %	70-130	02/19/24	02/19/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2408006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/19/24	02/19/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.7 %	70-130	02/19/24	02/19/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2408009	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/19/24	02/20/24		
Oil Range Organics (C28-C36)	ND	50.0	1	02/19/24	02/20/24		
Surrogate: n-Nonane		98.4 %	50-200	02/19/24	02/20/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2408023	
Chloride	46.7	20.0	1	02/19/24	02/20/24		



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/20/2024 2:44:42PM

SP 3 - 14' E402156-03

		E402130-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RAS		Batch: 2408006
Benzene	ND	0.0250	1	02/19/24	02/19/24	
Ethylbenzene	ND	0.0250	1	02/19/24	02/19/24	
Toluene	ND	0.0250	1	02/19/24	02/19/24	
o-Xylene	ND	0.0250	1	02/19/24	02/19/24	
p,m-Xylene	ND	0.0500	1	02/19/24	02/19/24	
Total Xylenes	ND	0.0250	1	02/19/24	02/19/24	
Surrogate: 4-Bromochlorobenzene-PID		92.4 %	70-130	02/19/24	02/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RAS		Batch: 2408006
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/19/24	02/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.2 %	70-130	02/19/24	02/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2408009
Diesel Range Organics (C10-C28)	ND	25.0	1	02/19/24	02/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/19/24	02/20/24	
Surrogate: n-Nonane		95.0 %	50-200	02/19/24	02/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2408023
Chloride	29.6	20.0	1	02/19/24	02/20/24	

Chloride

Sample Data

Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/20/2024 2:44:42PM

SP 4 - 8'

		E402156-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2408006
Benzene	ND	0.0250	1	02/19/24	02/19/24	
Ethylbenzene	ND	0.0250	1	02/19/24	02/19/24	
Toluene	ND	0.0250	1	02/19/24	02/19/24	
o-Xylene	ND	0.0250	1	02/19/24	02/19/24	
p,m-Xylene	ND	0.0500	1	02/19/24	02/19/24	
Total Xylenes	ND	0.0250	1	02/19/24	02/19/24	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	02/19/24	02/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2408006
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/19/24	02/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.9 %	70-130	02/19/24	02/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2408009
Diesel Range Organics (C10-C28)	ND	25.0	1	02/19/24	02/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/19/24	02/20/24	
Surrogate: n-Nonane		97.0 %	50-200	02/19/24	02/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2408023

20.0

300

02/19/24

02/20/24



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/20/2024 2:44:42PM

SP 5 - 18' E402156-05

		E402150-05				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Allaryte	Result	Lillit	Dilution	Trepared	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2408006
Benzene	ND	0.0250	1	02/19/24	02/19/24	
Ethylbenzene	ND	0.0250	1	02/19/24	02/19/24	
Toluene	ND	0.0250	1	02/19/24	02/19/24	
o-Xylene	ND	0.0250	1	02/19/24	02/19/24	
p,m-Xylene	ND	0.0500	1	02/19/24	02/19/24	
Total Xylenes	ND	0.0250	1	02/19/24	02/19/24	
Surrogate: 4-Bromochlorobenzene-PID		94.1 %	70-130	02/19/24	02/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RAS		Batch: 2408006
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/19/24	02/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.0 %	70-130	02/19/24	02/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2408009
Diesel Range Organics (C10-C28)	ND	25.0	1	02/19/24	02/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/19/24	02/20/24	
Surrogate: n-Nonane		97.4 %	50-200	02/19/24	02/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2408023
Chloride	253	20.0	1	02/19/24	02/20/24	



		QC St	41111111	ny Data					
Mack Energy 7 W. Compress Road Artesia NM, 88210		Project Name: Project Number: Project Manager:	20	est Mount Sp 0046-0001 atalie Gladder				2/2	Reported: 0/2024 2:44:42PM
<u>, </u>	Volatile Organics by EPA 8021B								Analyst: EG
		, 0111111 01	5	, <u> </u>					Allalyst. EG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2408006-BLK1)							Prepared: 0	2/19/24 Anal	yzed: 02/19/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			
LCS (2408006-BS1)							Prepared: 0	2/19/24 Anal	yzed: 02/19/24
Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	5.11	0.0250	5.00		102	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	5.07	0.0250	5.00		101	70-130			
p,m-Xylene	10.3	0.0500	10.0		103	70-130			
Total Xylenes	15.4	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			
Matrix Spike (2408006-MS1)				Source:	E402154-	25	Prepared: 0	2/19/24 Anal	yzed: 02/19/24
Benzene	4.87	0.0250	5.00	ND	97.3	54-133			
Ethylbenzene	4.84	0.0250	5.00	ND	96.9	61-133			
Toluene	4.85	0.0250	5.00	ND	97.0	61-130			
o-Xylene	4.79	0.0250	5.00	ND	95.9	63-131			
o,m-Xylene	9.79	0.0500	10.0	ND	97.9	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130		·	
Matrix Spike Dup (2408006-MSD1)				Source:	E402154-	25	Prepared: 0	2/19/24 Anal	yzed: 02/19/24
Benzene	4.77	0.0250	5.00	ND	95.4	54-133	1.94	20	
Ethylbenzene	4.80	0.0250	5.00	ND	96.0	61-133	0.909	20	
Toluene	4.78	0.0250	5.00	ND	95.7	61-130	1.41	20	
o-Xylene	4.75	0.0250	5.00	ND	94.9	63-131	0.981	20	
p,m-Xylene	9.69	0.0500	10.0	ND	96.9	63-131	0.993	20	
Total Xylenes	14.4	0.0250	15.0	ND	96.2	63-131	0.989	20	



70-130

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Mack Energy	Project Name:	West Mount Spill B	Reported:
7 W. Compress Road	Project Number:	20046-0001	^
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/20/2024 2:44:42PM

Artesia NM, 88210		Project Manage	r: Na	atalie Gladder	1			2/2	0/2024 2:44:42PM
	Nor	halogenated	Organics	by EPA 80	15D - G	RO			Analyst: EG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2408006-BLK1)							Prepared: 0	2/19/24 Anal	yzed: 02/19/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			
LCS (2408006-BS2)							Prepared: 0	2/19/24 Anal	yzed: 02/19/24
Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			
Matrix Spike (2408006-MS2)				Source:	E402154-	25	Prepared: 0	2/19/24 Anal	yzed: 02/19/24
Gasoline Range Organics (C6-C10)	44.4	20.0	50.0	ND	88.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.5	70-130			
Matrix Spike Dup (2408006-MSD2)				Source:	E402154-	25	Prepared: 0	2/19/24 Anal	yzed: 02/19/24
Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130	3.71	20	

8.00

7.81

97.6

70-130



Mack EnergyProject Name:West Mount Spill BReported:7 W. Compress RoadProject Number:20046-0001Artesia NM, 88210Project Manager:Natalie Gladden2/20/2024 2:44:42PM

Result mg/kg mg/	Artesia Nivi, 88210		Project Manage	r: Na	italie Gladdel	11			•	2/20/2024 2.44.42FN
Result Limit Level Result Rec Limits RPD Limit Limit Level Result Rec Limits RPD Limit Limit Rec Limits RPD Limit Rec Result Rec Limits RPD Limit Rec Result R		Nonha	logenated Or	ganics by	EPA 8015I	D - DRO	/ORO			Analyst: KM
Prepared: 02/19/24 Analyzed: 02/20/24 Analyze	Analyte	Result		-		Rec		RPD		
ND 25.0 ND 50.0 Source: C28-C36) ND 50.0 Source: Range Organics (C10-C28) ND 50.0 Source: Range Organics (C28-C36) ND Source: Range Organics (C10-C28) Source: C408009-BS1) Source: C408009-BS1 Source: C408009-BS		mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
ND 50.0 Source: Range Organics (C28-C36) ND 50.0 Source: Prepared: 02/19/24 Analyzed: 02/20/24 Ana	Blank (2408009-BLK1)							Prepared: 0	2/19/24 An	nalyzed: 02/19/24
Diesel Range Organics (C10-C28) 258 25.0 250 250 103 38-132	Diesel Range Organics (C10-C28)	ND	25.0							
Prepared: 02/19/24 Analyzed: 02/19/24	Oil Range Organics (C28-C36)	ND	50.0							
Diesel Range Organics (C10-C28) 258 25.0 250 103 38-132 Surrogate: n-Nonane 44.9 50.0 89.7 50-200 Matrix Spike (2408009-MS1) Source: E402154-25 Prepared: 02/19/24 Analyzed: 02/20/24 Diesel Range Organics (C10-C28) 234 25.0 250 ND 93.7 38-132 Surrogate: n-Nonane 44.5 50.0 89.0 50-200 Matrix Spike Dup (2408009-MSD1) Source: E402154-25 Prepared: 02/19/24 Analyzed: 02/20/24 Diesel Range Organics (C10-C28) 224 25.0 250 ND 89.8 38-132 4.25 20	Surrogate: n-Nonane	45.5		50.0		91.0	50-200			
Matrix Spike (2408009-MS1) Source: E402154-25 Prepared: 02/19/24 Analyzed: 02/20/24 Diesel Range Organics (C10-C28) 234 25.0 250 ND 93.7 38-132 Fource: E402154-25 Prepared: 02/19/24 Analyzed: 02/20/24 Matrix Spike Dup (2408009-MSD1) Source: E402154-25 Prepared: 02/19/24 Analyzed: 02/20/24 Diesel Range Organics (C10-C28) 224 25.0 250 ND 89.8 38-132 4.25 20	LCS (2408009-BS1)							Prepared: 0	2/19/24 An	nalyzed: 02/19/24
Matrix Spike (2408009-MS1) Source: E402154-25 Prepared: 02/19/24 Analyzed: 02/20/24 Diesel Range Organics (C10-C28) 234 25.0 250 ND 93.7 38-132 Furrogate: n-Nonane 44.5 50.0 89.0 50-200 Matrix Spike Dup (2408009-MSD1) Source: E402154-25 Prepared: 02/19/24 Analyzed: 02/20/24 Diesel Range Organics (C10-C28) 224 25.0 250 ND 89.8 38-132 4.25 20	Diesel Range Organics (C10-C28)	258	25.0	250		103	38-132			
Diesel Range Organics (C10-C28) 234 25.0 250 ND 93.7 38-132 Source: E402154-25 Prepared: 02/19/24 Analyzed: 02/20/24 Prepared: 02/19/24 Analyzed: 02/20/24 Diesel Range Organics (C10-C28) 242 25.0 250 ND 89.8 38-132 4.25 20	Surrogate: n-Nonane	44.9		50.0		89.7	50-200			
Source Range Organics (C10-C28) 44.5 50.0 89.0 50-200 Source: E402154-25 Prepared: 02/19/24 Analyzed: 02/20/24 ND 89.8 38-132 4.25 20	Matrix Spike (2408009-MS1)				Source:	E402154-	25	Prepared: 0	2/19/24 An	nalyzed: 02/20/24
Matrix Spike Dup (2408009-MSD1) Source: E402154-25 Prepared: 02/19/24 Analyzed: 02/20/24 Diesel Range Organics (C10-C28) 224 25.0 250 ND 89.8 38-132 4.25 20	Diesel Range Organics (C10-C28)	234	25.0	250	ND	93.7	38-132			
Diesel Range Organics (C10-C28) 224 25.0 250 ND 89.8 38-132 4.25 20	Surrogate: n-Nonane	44.5		50.0		89.0	50-200			
	Matrix Spike Dup (2408009-MSD1)				Source:	E402154-	25	Prepared: 0	2/19/24 An	nalyzed: 02/20/24
Surrogate: n-Nonane 42.8 50.0 85.7 50-200	Diesel Range Organics (C10-C28)	224	25.0	250	ND	89.8	38-132	4.25	20	
	Surrogate: n-Nonane	42.8		50.0		85.7	50-200			



QC Summary Data

Mack Energy		Project Name: Project Number:		est Mount Sp 046-0001	ill B				Reported:
7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager:		atalie Gladder	ı				2/20/2024 2:44:42PM
		Anions	by EPA 3	00.0/9056	1				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2408023-BLK1)							Prepared: 0	2/19/24 A	nalyzed: 02/19/24
Chloride	ND	20.0							
LCS (2408023-BS1)							Prepared: 0	2/19/24 A	nalyzed: 02/19/24
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2408023-MS1)				Source:	E402141-0	03	Prepared: 0	2/19/24 A	nalyzed: 02/19/24
Chloride	254	20.0	250	ND	102	80-120			
Matrix Spike Dup (2408023-MSD1)				Source:	E402141-0	03	Prepared: 0	2/19/24 A	nalyzed: 02/19/24
Chloride	253	20.0	250	ND	101	80-120	0.529	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

ſ	Mack Energy	Project Name:	West Mount Spill B	
١	7 W. Compress Road	Project Number:	20046-0001	Reported:
١	Artesia NM, 88210	Project Manager:	Natalie Gladden	02/20/24 14:44

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

hain	of	Custody	
	0,		

of 1

Client: M	acil Fr	nersy				- 10	Bill To				La	ab Us	e On	ly					TAT		EPA	rogram
Project: U	NEST A	hount	58111 B	5			Attention: ENERGY STAFFING SER	VICES	Lab	WO	#		Job I	Num	ber	1	D i	2D	3D	Standard	CWA	SDWA
Project M	lanager:						Address: 2724 NW COUNTY RD		EY	102	-151	6	2000	16-0	2001			X				
Address:							City, State, Zip HOBBS, NM 88240								nd Met	hod						RCRA
City, State	e, Zip						Phone: 575-393-9048															
Phone:							Email: NATALIE@ENERGYSTAFFINGI	LC.COM	115	8015											State	
Email:							BRITTNEY@ENERGYSTAFFING	LLC.COM	by 8015		21	0	0	0.0			S			NM CO	UT AZ	XTX
Report du	ue by:								RO	ROt	V 80	826	601	e 30				X		X		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample I	D			Lab Number	DRO/ORO	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC	BGDOC			Remark	s
	02/15	5	1	50	1	-	12'	l									×					
	<	((58	2	-	8'	2														
				5P	3	-	14'	3														
)	}	SP	4	•	8'	4									3					
	02/15	5	i	58	5	-	18'	5								4	X					
Addition	al Instruc	tions:							1		1											
			y and authent				ware that tampering with or intentionally mislabetion. Sampled by:	lling the sampl	le locat	tion,			1000							ved on ice the day C on subsequent d		pled or received
	ed by: (Sign:		Date		Time	_	Received by: (Signature)	Date 216	14	Time	135	50	Rec	eived	on ice	p:	La	b Us	e Only			
	ed by: (Sign:	alure)	Date 2	15-24	Time L(030		Date 2/17		Time	63	0	T1			T	2	,		T3		
	ed by: (Sign	ature)	Date		Time		Received by: (Signature)	Date		Time	2		8	Ten	np °C_	4						
Sample Mati	rix: S - Soil. So	d - Solid, Se	- Sludge, A - A	Aqueous, O -	Other			Containe	er Typ	e: g -	glass	. p - r	_			mber	glas	s, v -	VOA			
-						unles	s other arrangements are made. Hazardou		_			_					_		-	port for the an	alysis of th	e above
The second secon			A STATE OF THE PARTY OF THE PAR				ry with this COC. The liability of the laborate	The state of the s									400					

Printed: 2/17/2024 8:23:03AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

Date Received:	02/17/24 06:3	30	Work Order ID	e: E402156
Date Logged In:	02/16/24 16:1	19	Logged in By:	Alexa Michaels
Due Date:	02/20/24 17:0	00 (1 day TAT)		
?	Yes			
	Yes			
or carrier?	Yes	Carrier: C	Courier	
res, dates/times, requested analyses?	Yes		_ 	
ich should be conducted in the field,	Yes		<u>Comm</u>	ents/Resolution
				-
or Expedited TAT?	Yes		project manager and	time sampled are not
,			documented on COC	by client.
	Yes			• • • • • • • • • • • • • • • • • • • •
condition?				
intact?	NA			
	Yes			
ature. Actual sample temperature: 4º	<u>°C</u>			
?	No			
A Vials?	NA			
(pea sized or less)?	NA			
VOC analyses?	NA			
	Yes			
	Ycs			
·				
with the minimum information:	Yes			
	Yes			
ate the samples were preserved?	No			
•	NA			
	No			
ne phase, i.e., multiphase?	No			
. p	IVA			
a subcontract laboratory?			•••	
fied by the client and if so who?	NA Su	ibcontract Lab	: NA	
	? A Vials? (pea sized or less)? VOC analyses? In the correct containers? number of sample containers collected? with the minimum information: ate the samples were preserved? quested for dissolved metals? the phase, i.e., multiphase? In phase(s) is to be analyzed?	npling site location match the COC Yes or carrier? Yes ures, dates/times, requested analyses? Yes olding time? Ich should be conducted in the field, It included in this disucssion. Yes condition? No A Valact? No A Vials? No A Vials? No A Vials? Yes condition? No A Vials? Yes condition? No A Vials? No	apling site location match the COC or carrier? Yes or carrier? Yes cres, dates/times, requested analyses? Yes liding time? Yes ich should be conducted in the field, it included in this disucssion. Yes condition? Yes e., not broken? Yes e., not broken? Yes not required, if samples are received w/i 15 ature. Actual sample temperature: 4°C ? No A Vials? No canalyses? No A the correct containers? No A the correct containers? Yes with the minimum information: Yes	piling site location match the COC or carrier? Yes or carrier? Yes Carrier: Courier Yes Carrier: Carrier Yes Carrier Yes Carrier Yes Carrier: Carrier Yes Carrier: Carrie

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill B

Work Order: E402165

Job Number: 20046-0001

Received: 2/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/21/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/21/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount Spill B

Workorder: E402165

Date Received: 2/20/2024 5:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/20/2024 5:30:00AM, under the Project Name: West Mount Spill B.

The analytical test results summarized in this report with the Project Name: West Mount Spill B apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Cell: 505-947-8222

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Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

_			-	
ſ	Mack Energy	Project Name:	West Mount Spill B	Reported:
١	7 W. Compress Road	Project Number:	20046-0001	Keporteu:
l	Artesia NM, 88210	Project Manager:	Natalie Gladden	02/21/24 15:45

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW 1 -3'	E402165-01A	Soil	02/16/24	02/20/24	Glass Jar, 2 oz.
SW 2 -3'	E402165-02A	Soil	02/16/24	02/20/24	Glass Jar, 2 oz.
SW 3 -5'	E402165-03A	Soil	02/16/24	02/20/24	Glass Jar, 2 oz.
SW 4 -7'	E402165-04A	Soil	02/16/24	02/20/24	Glass Jar, 2 oz.
SW 5 -6'	E402165-05A	Soil	02/16/24	02/20/24	Glass Jar, 2 oz.
SW 6 -6'	E402165-06A	Soil	02/16/24	02/20/24	Glass Jar, 2 oz.
SW 7 -5'	E402165-07A	Soil	02/16/24	02/20/24	Glass Jar, 2 oz.
SW 8 -4'	E402165-08A	Soil	02/16/24	02/20/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:45:57PM

SW 1 -3' E402165-01

		E402165-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2408030
Benzene	ND	0.0250	1	02/20/24	02/20/24	
Ethylbenzene	ND	0.0250	1	02/20/24	02/20/24	
Toluene	ND	0.0250	1	02/20/24	02/20/24	
o-Xylene	ND	0.0250	1	02/20/24	02/20/24	
p,m-Xylene	ND	0.0500	1	02/20/24	02/20/24	
Total Xylenes	ND	0.0250	1	02/20/24	02/20/24	
Surrogate: 4-Bromochlorobenzene-PID		93.4 %	70-130	02/20/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2408030
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/20/24	02/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.0 %	70-130	02/20/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2408033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/24	02/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/24	02/20/24	
Surrogate: n-Nonane		100 %	50-200	02/20/24	02/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2408034
Chloride	128	40.0	2	02/20/24	02/20/24	



Chloride

Sample Data

Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:45:57PM

SW 2 -3'

		E402165-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	Analyst: EG		Batch: 2408030
Benzene	ND	0.0250	1	02/20/24	02/20/24	
Ethylbenzene	ND	0.0250	1	02/20/24	02/20/24	
Toluene	ND	0.0250	1	02/20/24	02/20/24	
o-Xylene	ND	0.0250	1	02/20/24	02/20/24	
p,m-Xylene	ND	0.0500	1	02/20/24	02/20/24	
Total Xylenes	ND	0.0250	1	02/20/24	02/20/24	
Surrogate: 4-Bromochlorobenzene-PID		93.8 %	70-130	02/20/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2408030
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/20/24	02/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	70-130	02/20/24	02/20/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2408033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/24	02/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/24	02/20/24	
Surrogate: n-Nonane		102 %	50-200	02/20/24	02/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: DT		Batch: 2408034

20.0

ND

02/20/24

02/20/24



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:45:57PM

SW 3 -5'

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		2.02100 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2408030
Benzene	ND	0.0250	1	02/20/24	02/21/24	
Ethylbenzene	ND	0.0250	1	02/20/24	02/21/24	
Toluene	ND	0.0250	1	02/20/24	02/21/24	
o-Xylene	ND	0.0250	1	02/20/24	02/21/24	
p,m-Xylene	ND	0.0500	1	02/20/24	02/21/24	
Total Xylenes	ND	0.0250	1	02/20/24	02/21/24	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	02/20/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2408030
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/20/24	02/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	70-130	02/20/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2408033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/24	02/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/24	02/20/24	
Surrogate: n-Nonane		104 %	50-200	02/20/24	02/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	Analyst: DT		Batch: 2408034
Chloride	ND	20.0	1	02/20/24	02/20/24	



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:45:57PM

SW 4 -7'

E402165-04

		2102100 01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		rst: EG		Batch: 2408030
Benzene	ND	0.0250	1	02/20/24	02/21/24	
Ethylbenzene	ND	0.0250	1	02/20/24	02/21/24	
Toluene	ND	0.0250	1	02/20/24	02/21/24	
o-Xylene	ND	0.0250	1	02/20/24	02/21/24	
p,m-Xylene	ND	0.0500	1	02/20/24	02/21/24	
Total Xylenes	ND	0.0250	1	02/20/24	02/21/24	
Surrogate: 4-Bromochlorobenzene-PID		93.8 %	70-130	02/20/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: EG		Batch: 2408030
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/20/24	02/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.3 %	70-130	02/20/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: KM		Batch: 2408033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/24	02/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/24	02/20/24	
Surrogate: n-Nonane		111 %	50-200	02/20/24	02/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2408034
Chloride	206	20.0	1	02/20/24	02/20/24	



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:45:57PM

SW 5 -6' E402165-05

	L402103 03				
Result	Reporting Limit		Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: EG		Batch: 2408030
ND	0.0250	1	02/20/24	02/21/24	
ND	0.0250	1	02/20/24	02/21/24	
ND	0.0250	1	02/20/24	02/21/24	
ND	0.0250	1	02/20/24	02/21/24	
ND	0.0500	1	02/20/24	02/21/24	
ND	0.0250	1	02/20/24	02/21/24	
	93.7 %	70-130	02/20/24	02/21/24	
mg/kg	mg/kg	Ana	lyst: EG		Batch: 2408030
ND	20.0	1	02/20/24	02/21/24	
	95.5 %	70-130	02/20/24	02/21/24	
mg/kg	mg/kg	Ana	lyst: KM		Batch: 2408033
ND	25.0	1	02/20/24	02/20/24	
ND	50.0	1	02/20/24	02/20/24	
	107 %	50-200	02/20/24	02/20/24	
mg/kg	mg/kg	Ana	lyst: DT		Batch: 2408034
217	20.0	1	02/20/24	02/20/24	
	mg/kg ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 20.0 95.5 % mg/kg MD 25.0 ND 50.0 107 % mg/kg mg/kg mg/kg	mg/kg mg/kg Ana ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 93.7 % 70-130 mg/kg mg/kg Ana ND 20.0 1 95.5 % 70-130 1 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 107 % 50-200 mg/kg mg/kg Ana	Result Limit Dilution Prepared mg/kg mg/kg Analyst: EG ND 0.0250 1 02/20/24 ND 0.0250 1 02/20/24 ND 0.0250 1 02/20/24 ND 0.0250 1 02/20/24 ND 0.0500 1 02/20/24 ND 0.0250 1 02/20/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/20/24 mg/kg mg/kg Analyst: KM ND 25.5 % 70-130 02/20/24 mg/kg mg/kg Analyst: KM ND 25.0 1 02/20/24 ND 50.0 1 02/20/24 ND 50.0 1 02/20/24 mg/kg mg/kg Analyst: KM	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: EG ND 0.0250 1 02/20/24 02/21/24 ND 0.0250 1 02/20/24 02/21/24 ND 0.0250 1 02/20/24 02/21/24 ND 0.0500 1 02/20/24 02/21/24 ND 0.0250 1 02/20/24 02/21/24 ND 0.0250 1 02/20/24 02/21/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/20/24 02/21/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/20/24 02/21/24 mg/kg mg/kg Analyst: KM ND 25.0 1 02/20/24 02/20/24 ND 50.0 1 02/20/24 02/20/24 ND 50.0 1 02/20/24 02/20/24 ND 50.0 <



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:45:57PM

SW 6 -6' E402165-06

Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: EG		Batch: 2408030
ND	0.0250	1	02/20/24	02/21/24	
ND	0.0250	1	02/20/24	02/21/24	
ND	0.0250	1	02/20/24	02/21/24	
ND	0.0250	1	02/20/24	02/21/24	
ND	0.0500	1	02/20/24	02/21/24	
ND	0.0250	1	02/20/24	02/21/24	
	94.3 %	70-130	02/20/24	02/21/24	
mg/kg	mg/kg	Ana	lyst: EG		Batch: 2408030
ND	20.0	1	02/20/24	02/21/24	
	96.8 %	70-130	02/20/24	02/21/24	
mg/kg	mg/kg	Ana	lyst: KM		Batch: 2408033
ND	25.0	1	02/20/24	02/20/24	
ND	50.0	1	02/20/24	02/20/24	
	108 %	50-200	02/20/24	02/20/24	
mg/kg	mg/kg	Anal	lyst: DT		Batch: 2408034
121	40.0	2	02/20/24	02/20/24	
	mg/kg ND Mg/kg ND mg/kg	mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 MD 0.0250 94.3 % mg/kg ND 20.0 96.8 % mg/kg ND 25.0 ND 50.0 108 % mg/kg mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Ana ND 0.0250 1 MD 0.0250 1 94.3 % 70-130 mg/kg mg/kg Ana ND 20.0 1 96.8 % 70-130 1 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 108 % 50-200 mg/kg mg/kg Ana	Result Limit Dilution Prepared mg/kg mg/kg Analyst: EG ND 0.0250 1 02/20/24 ND 0.0250 1 02/20/24 ND 0.0250 1 02/20/24 ND 0.0250 1 02/20/24 ND 0.0500 1 02/20/24 ND 0.0250 1 02/20/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/20/24 mg/kg mg/kg Analyst: KM ND 25.0 1 02/20/24 ND 50.0 1 02/20/24 ND 50.0 1 02/20/24 ND 50.0 1 02/20/24 ND 50.0 1 02/20/24 Mg/kg Mg/kg Analyst: KM	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: EG ND 0.0250 1 02/20/24 02/21/24 ND 0.0250 1 02/20/24 02/21/24 ND 0.0250 1 02/20/24 02/21/24 ND 0.0500 1 02/20/24 02/21/24 ND 0.0250 1 02/20/24 02/21/24 ND 0.0250 1 02/20/24 02/21/24 mg/kg mg/kg Analyst: EG ND 20.0 1 02/20/24 02/21/24 mg/kg mg/kg Analyst: KM ND 25.0 1 02/20/24 02/21/24 ND 25.0 1 02/20/24 02/20/24 ND 50.0 1 02/20/24 02/20/24 ND 50.0 1 02/20/24 02/20/24 ND 50.0 1 02/20/24 02/20/24 N



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:45:57PM

SW 7 -5'

		E402165-07				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: EG		Batch: 2408030
Benzene	ND	0.0250	1	02/20/24	02/21/24	
Ethylbenzene	ND	0.0250	1	02/20/24	02/21/24	
Toluene	ND	0.0250	1	02/20/24	02/21/24	
o-Xylene	ND	0.0250	1	02/20/24	02/21/24	
p,m-Xylene	ND	0.0500	1	02/20/24	02/21/24	
Total Xylenes	ND	0.0250	1	02/20/24	02/21/24	
Surrogate: 4-Bromochlorobenzene-PID		93.5 %	70-130	02/20/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: EG		Batch: 2408030
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/20/24	02/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.5 %	70-130	02/20/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2408033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/24	02/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/24	02/20/24	
Surrogate: n-Nonane		106 %	50-200	02/20/24	02/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2408034
Chloride	ND	20.0	1	02/20/24	02/20/24	



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:45:57PM

SW 8 -4'

		E402165-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2408030
Benzene	ND	0.0250	1	02/20/24	02/21/24	
Ethylbenzene	ND	0.0250	1	02/20/24	02/21/24	
Toluene	ND	0.0250	1	02/20/24	02/21/24	
o-Xylene	ND	0.0250	1	02/20/24	02/21/24	
p,m-Xylene	ND	0.0500	1	02/20/24	02/21/24	
Total Xylenes	ND	0.0250	1	02/20/24	02/21/24	
Surrogate: 4-Bromochlorobenzene-PID		93.2 %	70-130	02/20/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: EG		Batch: 2408030
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/20/24	02/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.3 %	70-130	02/20/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2408033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/24	02/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/24	02/20/24	
Surrogate: n-Nonane		108 %	50-200	02/20/24	02/20/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2408034
Chloride	ND	20.0	1	02/20/24	02/20/24	



QC Summary Data

		QC SI	umma	iry Dat	ય				
Mack Energy 7 W. Compress Road		Project Name: Project Number:	20	est Mount Sp 0046-0001					Reported:
Artesia NM, 88210		Project Manager:	Na	atalie Gladdei	1				2/21/2024 3:45:57PM
		Volatile O	rganics b	oy EPA 802	21B				Analyst: EG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2408030-BLK1)							Prepared: 0	2/20/24 A	Analyzed: 02/20/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.8	70-130			
LCS (2408030-BS1)							Prepared: 0	2/20/24 A	Analyzed: 02/20/24
Benzene	4.31	0.0250	5.00		86.3	70-130			
Ethylbenzene	4.31	0.0250	5.00		86.2	70-130			
Toluene	4.30	0.0250	5.00		86.0	70-130			
-Xylene	4.24	0.0250	5.00		84.9	70-130			
o,m-Xylene	8.70	0.0500	10.0		87.0	70-130			
Total Xylenes	12.9	0.0250	15.0		86.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.4	70-130			
Matrix Spike (2408030-MS1)				Source:	E402165-	01	Prepared: 0	2/20/24 A	Analyzed: 02/20/24
Benzene	4.49	0.0250	5.00	ND	89.9	54-133			
Ethylbenzene	4.50	0.0250	5.00	ND	89.9	61-133			
Toluene	4.48	0.0250	5.00	ND	89.7	61-130			
o-Xylene	4.44	0.0250	5.00	ND	88.9	63-131			
o,m-Xylene	9.08	0.0500	10.0	ND	90.8	63-131			
Total Xylenes	13.5	0.0250	15.0	ND	90.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.2	70-130			
Matrix Spike Dup (2408030-MSD1)				Source:	E402165-	01	Prepared: 0	2/20/24 A	Analyzed: 02/20/24
Benzene	4.78	0.0250	5.00	ND	95.6	54-133	6.14	20	
Ethylbenzene	4.79	0.0250	5.00	ND	95.8	61-133	6.32	20	
Toluene	4.77	0.0250	5.00	ND	95.4	61-130	6.21	20	
o-Xylene	4.72	0.0250	5.00	ND	94.4	63-131	6.09	20	
p,m-Xylene	9.66	0.0500	10.0	ND	96.6	63-131	6.18	20	
Total Vylanas	14.4	0.0250	15.0	ND	05.0	62 121	6.15	20	



14.4

7.57

0.0250

15.0

8.00

ND

95.9

63-131

70-130

6.15

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Mack Energy	Project Name:	West Mount Spill B	Reported:
7 W. Compress Road	Project Number:	20046-0001	_
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:45:57PM

Artesia NM, 88210		Project Manage	r: Na	atalie Gladder	1			2/2	1/2024 3:45:57PM
	Nor	nhalogenated	Organics	by EPA 80	15D - G	RO			Analyst: EG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2408030-BLK1)							Prepared: 0	2/20/24 Anal	yzed: 02/20/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			
LCS (2408030-BS2)							Prepared: 0	2/20/24 Anal	yzed: 02/20/24
Gasoline Range Organics (C6-C10)	54.3	20.0	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			
Matrix Spike (2408030-MS2)				Source:	E402165-	01	Prepared: 0	2/20/24 Anal	yzed: 02/20/24
Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			
Matrix Spike Dup (2408030-MSD2)				Source:	E402165-	01	Prepared: 0	2/20/24 Anal	yzed: 02/20/24
Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130	2.24	20	

8.00

7.73

96.6

70-130



QC Summary Data

Mack Energy	Project Name:	West Mount Spill B	Reported:
7 W. Compress Road	Project Number:	20046-0001	-
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:45:57PM

Artesia NM, 88210		Project Manage	r: Na	italie Gladder	1				2/21/2024 3:45:5/PF
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2408033-BLK1)							Prepared: 0	2/20/24 Ar	nalyzed: 02/20/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	56.0		50.0		112	50-200			
LCS (2408033-BS1)							Prepared: 0	2/20/24 Ar	nalyzed: 02/20/24
Diesel Range Organics (C10-C28)	282	25.0	250		113	38-132			
urrogate: n-Nonane	60.4		50.0		121	50-200			
Matrix Spike (2408033-MS1)				Source:	E402165-	02	Prepared: 0	2/20/24 Ar	nalyzed: 02/20/24
Diesel Range Organics (C10-C28)	303	25.0	250	ND	121	38-132			
urrogate: n-Nonane	61.6		50.0		123	50-200			
Matrix Spike Dup (2408033-MSD1)				Source:	E402165-	02	Prepared: 0	2/20/24 Ar	nalyzed: 02/20/24
Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	38-132	6.21	20	
urrogate: n-Nonane	57.8		50.0		116	50-200			



Matrix Spike Dup (2408034-MSD1)

Chloride

QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210		Project Name: Project Number Project Manager	: 20	est Mount Spi 0046-0001 atalie Gladder					Reported: 2/21/2024 3:45:57PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	\				Analyst: DT
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2408034-BLK1)							Prepared: 02	2/20/24 Aı	nalyzed: 02/20/24
Chloride	ND	20.0							
LCS (2408034-BS1)							Prepared: 02	2/20/24 Aı	nalyzed: 02/20/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2408034-MS1)				Source:	E402165-	02	Prepared: 02	2/20/24 Aı	nalyzed: 02/20/24
Chloride	255	20.0	250	ND	102	80-120			

250

20.0

Source: E402165-02

103

80-120

0.739

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Prepared: 02/20/24 Analyzed: 02/20/24

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Definitions and Notes

Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	02/21/24 15:45

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Chain of Custody

	1 1
Page) of [

Client: A	lock En	UST			-	-	Bill To		21	di.	La	ab Us	se Onl	y	10.5%			TA		EPA P	rogram
Project:	west a	Mount	50,11	B	-		ntion: ENERGY STAFFING SEF	RVICES	Lab	WO#			Job N	lumbe	Onal	1D	-	3D	Standard	CWA	SDWA
Project N	/lanager:	200			V		ess: 2724 NW COUNTY RD		E	102	165	2			1000		X				
Address:							State, Zip HOBBS, NM 8824	0					Analy:	sis and	Metho	d	_		100000000000000000000000000000000000000		RCRA
City, Stat	e, Zip				12	100	e: 575-393-9048													61.1	
Phone:						Emai	I: NATALIE@ENERGYSTAFFING	LLC.COM	015	015										State	Trel
Email:							BRITTNEY@ENERGYSTAFFIN	GLLC.COM	by 8	8 49	21	09	0	0.00		ΣN	×		NIVI CO	UT AZ	IX
Report	ue by:				le le			-	ORO	ORO	38 %	y 82	9 903	de 3					>1		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		верос	верос			Remarks	
	02/16	5	1	Sw	1 -	- 3	1									X					
	/	/	(SW	2	- 3		2								1					
				SW	3	- 5'		3													
				Sw	4	- 7'		4													
			1	SW	5	- G'		5													
				Sw	6	- G'		6								1					
				SW	7	- 5'		7								1					
	02/16	5		Sau	8	- U	(8							+	X					
-			1	0.0	U	- (U				1	\vdash								
										-		-			\forall	+					
Additio	nal Instruc	ctions:			-			M. P.		1						1_					
Control of the contro							nat tampering with or intentionally mislab	relling the samp	le locat	tion,									eived on ice the da		led or received
Relinquis	hed by: (Sign	ature)	Dat	may be ground e 2/16/24	Time	ar action.	Received by: (Signature) Www.Wlu Ouh	Date 19	14	Time	306	2	Race	havie	on ice:		ab U	se On	ly		
Wild	hed by: (S/gn	ature)	Dat	424	Time 16	15	Received by: (Signature)	1.1		Time	9		T1	civeu	on rec.	<u>T2</u>	, 1		T3		
Relinduis	hed by: (Sign	11880	Dat 2	.19.24	Time 23	30	Received by: (Signature)	Z-20	-24	Time Of	530	0			°c 4			1101			- 1
Sample M	atrix: S - Soil. S	d - Solid, Sg	- Sludge, A -	Aqueous, O - (Other	-		Containe	er Typ	e:g-	glass	, p - 1	poly/p	lastic,	ag - aml	er gla	ass, v	- VOA	was a for all	alouis -ful	nhaue
Note: Sa	mples are dis	carded 30	days after r	results are rep	ported u	inless othe	er arrangements are made. Hazardo	us samples wi	ll be re	eturne	d to c	lient o	or dispo	osed of	at the cli	ent ex	pense	. The r	eport for the ar	ialysis of the	apove
samples	is applicable	only to tho	se samples	received by	the labo	ratory wit	h this COC. The liability of the labora	tory is limited	to the	amou	int pai	id for	on the	report.							



Printed: 2/20/2024 2:08:16PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

Phone:	Mack Energy	Date Received:	02/20/24 05:3	0	Work Order ID:	E402165
	(575) 390-6397	Date Logged In:	02/19/24 17:0:	5	Logged In By:	Alexa Michaels
imail:	Natalie@energystaffingllc.com	Due Date:	02/21/24 17:0	0 (1 day TAT)		
Chain of	Custody (COC)					
l. Does th	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location match	the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: C	Courier	
	c COC complete, i.e., signatures, dates/times, requeste	d analyses?	No	_		
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in t i.e, 15 minute hold time, are not included in this disucssion		Yes		Comme	nts/Resolution
Sample T	urn Around Time (TAT)					
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Project manager and t	ime sampled not
Sample C	<u>Cooler</u>				documented on COC.	
7. Was a s	sample cooler received?		Yes			
8. If yes, v	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?		No			
	were custody/security seals intact?		NA			
12. Was th	e sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample to	received w/i 15	Yes			
	Container					
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample containe	rs collected?	Yes			
Field Lat	• •					
	field sample labels filled out with the minimum infor	mation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes			
С	ollectors name?		Yes			
	<u>Preservation</u>					
	the COC or field labels indicate the samples were pre	served?	No			
	ample(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved me	tais?	No			
B. # B. 44 B	se Sample Matrix					
	the sample have more than one phase, i.e., multiphase		No			
	, does the COC specify which phase(s) is to be analyz	ed?	NA			
26. Does	, does nie coe specify which phase(s) is to be many.					
26. Does 27. If yes	ract Laboratory		M.			
26. Does 27. If yes <u>Subcontr</u>		?	No			
26. Does 27. If yes, <u>Subcontr</u> 28. Are sa	ract Laboratory			bcontract Lab	o: NA	

Signature of client authorizing changes to the COC or sample disposition.

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill B

Work Order: E402167

Job Number: 20046-0001

Received: 2/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/21/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 2/21/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount Spill B

Workorder: E402167

Date Received: 2/20/2024 5:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/20/2024 5:30:00AM, under the Project Name: West Mount Spill B.

The analytical test results summarized in this report with the Project Name: West Mount Spill B apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Cell: 775-287-1762

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Γ	Mack Energy	Project Name: West Mount Spill B		Reported:
l	7 W. Compress Road	Project Number:	20046-0001	Reported:
l	Artesia NM, 88210	Project Manager:	Natalie Gladden	02/21/24 15:43

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 6 -8'	E402167-01A	Soil	02/16/24	02/20/24	Glass Jar, 2 oz.
SP 7 -14'	E402167-02A	Soil	02/16/24	02/20/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:43:30PM

SP 6 -8' E402167-01

		E402167-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: EG		Batch: 2408030
Benzene	ND	0.0250	1	02/20/24	02/21/24	
Ethylbenzene	ND	0.0250	1	02/20/24	02/21/24	
Toluene	ND	0.0250	1	02/20/24	02/21/24	
o-Xylene	ND	0.0250	1	02/20/24	02/21/24	
o,m-Xylene	ND	0.0500	1	02/20/24	02/21/24	
Total Xylenes	ND	0.0250	1	02/20/24	02/21/24	
Surrogate: 4-Bromochlorobenzene-PID		92.9 %	70-130	02/20/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: EG		Batch: 2408030
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/20/24	02/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.4 %	70-130	02/20/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2408033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/24	02/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/24	02/21/24	
Surrogate: n-Nonane		113 %	50-200	02/20/24	02/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2408034
Chloride	ND	20.0	1	02/20/24	02/20/24	



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:43:30PM

SP 7 -14' E402167-02

		E-702107-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: EG		Batch: 2408030
Benzene	ND	0.0250	1	02/20/24	02/21/24	
Ethylbenzene	ND	0.0250	1	02/20/24	02/21/24	
Toluene	ND	0.0250	1	02/20/24	02/21/24	
o-Xylene	ND	0.0250	1	02/20/24	02/21/24	
p,m-Xylene	ND	0.0500	1	02/20/24	02/21/24	
Total Xylenes	ND	0.0250	1	02/20/24	02/21/24	
Surrogate: 4-Bromochlorobenzene-PID		93.0 %	70-130	02/20/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: EG		Batch: 2408030
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/20/24	02/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.9 %	70-130	02/20/24	02/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2408033
Diesel Range Organics (C10-C28)	ND	25.0	1	02/20/24	02/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	02/20/24	02/21/24	
Surrogate: n-Nonane		112 %	50-200	02/20/24	02/21/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2408034
Chloride	ND	20.0	1	02/20/24	02/20/24	



QC Summary Data

West Mount Spill B Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 2/21/2024 3:43:30PM **Volatile Organics by EPA 8021B** Analyst: EG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2408030-BLK1) Prepared: 02/20/24 Analyzed: 02/20/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.51 8.00 93.8 70-130 LCS (2408030-BS1) Prepared: 02/20/24 Analyzed: 02/20/24 4.31 86.3 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.31 0.0250 5.00 86.2 70-130 4.30 0.0250 5.00 86.0 70-130 Toluene 84.9 o-Xylene 4.24 0.0250 5.00 70-130 8.70 10.0 87.0 70-130 0.0500 p.m-Xvlene 86.3 70-130 12.9 15.0 Total Xylenes 0.0250 8.00 92.4 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.39 Matrix Spike (2408030-MS1) Source: E402165-01 Prepared: 02/20/24 Analyzed: 02/20/24 4.49 0.0250 5.00 ND 54-133 Benzene ND 89.9 61-133 Ethylbenzene 4.50 0.0250 5.00 Toluene 4.48 0.0250 5.00 ND 89.7 61-130 4.44 ND 88.9 63-131 5.00 0.0250 o-Xylene p,m-Xylene 9.08 0.0500 10.0 ND 90.8 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.54 8.00 Matrix Spike Dup (2408030-MSD1) Source: E402165-01 Prepared: 02/20/24 Analyzed: 02/20/24 4.78 0.0250 5.00 ND 54-133 6.14 4.79 61-133 6.32 0.0250 5.00 ND 95.8 20 Ethylbenzene 61-130 Toluene 4 77 0.0250 5.00 ND 954 6.21 20 4.72 5.00 ND 94.4 63-131 6.09 20 o-Xylene 0.0250 9.66 10.0 ND 96.6 63-131 6.18 20 p,m-Xylene 0.0500



14.4

7.57

0.0250

15.0

8.00

ND

95.9

94.7

63-131

70-130

6.15

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Mack Energy	Project Name:	West Mount Spill B	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:43:30PM

Artesia NM, 88210		Project Manage	r: Na	ntalie Gladder	1			2/2	21/2024 3:43:30PM
	Nor	nhalogenated		Analyst: EG					
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2408030-BLK1)							Prepared: 0	2/20/24 Ana	lyzed: 02/20/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			
LCS (2408030-BS2)							Prepared: 0	2/20/24 Ana	lyzed: 02/20/24
Gasoline Range Organics (C6-C10)	54.3	20.0	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			
Matrix Spike (2408030-MS2)				Source:	E402165-	01	Prepared: 0	2/20/24 Ana	lyzed: 02/20/24
Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			
Matrix Spike Dup (2408030-MSD2)				Source:	E402165-	01	Prepared: 0	2/20/24 Ana	lyzed: 02/20/24
Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130	2.24	20	

8.00

7.73

96.6

70-130



QC Summary Data

Mack Energy	Project Name:	West Mount Spill B	Reported:
7 W. Compress Road	Project Number:	20046-0001	-
Artesia NM, 88210	Project Manager:	Natalie Gladden	2/21/2024 3:43:30PM

Artesia NM, 88210		Project Manage	r: Na	italie Gladder	1				2/21/2024 3:43:30PF
_	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2408033-BLK1)							Prepared: 0	2/20/24 Ar	nalyzed: 02/20/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	56.0		50.0		112	50-200			
LCS (2408033-BS1)							Prepared: 0	2/20/24 Ar	nalyzed: 02/20/24
Diesel Range Organics (C10-C28)	282	25.0	250		113	38-132			
urrogate: n-Nonane	60.4		50.0		121	50-200			
Matrix Spike (2408033-MS1)				Source:	E402165-	02	Prepared: 0	2/20/24 Ar	nalyzed: 02/20/24
Diesel Range Organics (C10-C28)	303	25.0	250	ND	121	38-132			
urrogate: n-Nonane	61.6		50.0		123	50-200			
Matrix Spike Dup (2408033-MSD1)				Source:	E402165-	02	Prepared: 0	2/20/24 Ar	nalyzed: 02/20/24
Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	38-132	6.21	20	
urrogate: n-Nonane	57.8		50.0		116	50-200			



Chloride

QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210		Project Name: Project Number: Project Manager	20	/est Mount Spi 0046-0001 atalie Gladder					Reported: 2/21/2024 3:43:30PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	A				Analyst: DT
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2408034-BLK1)							Prepared: 0	2/20/24 A	nalyzed: 02/20/24
Chloride	ND	20.0							
LCS (2408034-BS1)							Prepared: 0	2/20/24 A	nalyzed: 02/20/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2408034-MS1)				Source:	E402165-	02	Prepared: 0	2/20/24 A	nalyzed: 02/20/24
Chloride	255	20.0	250	ND	102	80-120			
Matrix Spike Dup (2408034-MSD1)				Source: E402165-02			Prepared: 02/20/24 Analyzed: 02/20/24		

250

20.0

103

80-120

0.739

20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	02/21/24 15:43

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Page 132 of 287

age _	1	of	1
age _	-	_ 01 _	

Project Information EPA Program TAT Lab Use Only Bill To lient: Hack Energy SDWA 3D Standard CWA Attention: ENERGY STAFFING SERVICES 100 Number 1000 10 20 Project: west mount 50,11 Lab WO# E40216 Address: 2724 NW COUNTY RD Project Manager: **RCRA** City, State, Zip HOBBS, NM 88240 Analysis and Method Address: Phone: 575-393-9048 City, State, Zip State Email: NATALIE@ENERGYSTAFFINGLLC.COM DRO/ORO by 8015 GRO/DRO by 8015 Phone: NM CO UT AZ TX 300.0 BRITTNEY@ENERGYSTAFFINGLLC.COM NN mail: VOC by 8260 × Chloride Report due by: BGDOC Lab Remarks Sample ID Number Containers Sampled Sampled 02/16 X 02/16 Additional Instructions: Samples requiring thermal preservation must be received on ice the day they are sampled or received I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. 50115 date or time of collection is considered fraud and may be grounds for legal action. Lab Use Only Received by: (Signature) Relinquished by: (Signature) Received on ice: 02/14/24 50115 Received by: (Signature) Relinquished by: (Signature) received by: (Signature) Relinquished by: (Signature) AVG Temp °C Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report. @ envirotech

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above

Printed: 2/20/2024 2:01:09PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested. Mack Energy Date Received: 02/20/24 05:30 Work Order ID: E402167 Client: Logged In By: Alexa Michaels Phone: (575) 390-6397 Date Logged In: 02/19/24 17:14 Due Date: 02/21/24 17:00 (1 day TAT) Email: Natalie@energystaffingllc.com Chain of Custody (COC) Yes 1. Does the sample ID match the COC? 2. Does the number of samples per sampling site location match the COC 3. Were samples dropped off by client or carrier? Yes Carrier: Courier 4. Was the COC complete, i.c., signatures, dates/times, requested analyses? No 5. Were all samples received within holding time? Yes Note: Analysis, such as pH which should be conducted in the field, Comments/Resolution i.e, 15 minute hold time, are not included in this disucssion. Sample Turn Around Time (TAT) Project Manager and time sampled not 6. Did the COC indicate standard TAT, or Expedited TAT? Yes documented on COC. Sample Cooler Ves 7. Was a sample cooler received? 8. If yes, was cooler received in good condition? Yes 9. Was the sample(s) received intact, i.e., not broken? Yes 10. Were custody/security seals present? Nο 11. If yes, were custody/security seals intact? NA 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling 13. If no visible ice, record the temperature. Actual sample temperature: 4°C Sample Container 14. Are aqueous VOC samples present? No NA 15. Are VOC samples collected in VOA Vials? NA 16. Is the head space less than 6-8 mm (pea sized or less)? NA 17. Was a trip blank (TB) included for VOC analyses? Yes 18. Are non-VOC samples collected in the correct containers? 19. Is the appropriate volume/weight or number of sample containers collected? Yes Field Label 20. Were field sample labels filled out with the minimum information: Yes Sample ID? Date/Time Collected? Yes Collectors name? Yes Sample Preservation 21. Does the COC or field labels indicate the samples were preserved? No NA 22. Are sample(s) correctly preserved? 24. Is lab filteration required and/or requested for dissolved metals? No Multiphase Sample Matrix 26. Does the sample have more than one phase, i.e., multiphase? No 27. If yes, does the COC specify which phase(s) is to be analyzed? NA Subcontract Laboratory 28. Are samples required to get sent to a subcontract laboratory? No 29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA Client Instruction

MACK ENERGY: WEST MOUNT SPILL B DELINEATION SITE PHOTOS











FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 389430

From Natalie Gladden <natalie@energystaffingllc.com>

Date Wed 10/2/2024 3:56 PM

To Brittney Corral <bri>drittney@energystaffingllc.com>

Natalie Gladden

Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

2724 NW County Road Hobbs, NM 88240

Cell: 575-390-6397 Office: 575-393-9048

Email: <u>natalie@energystaffingllc.com</u>



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

Sent: Wednesday, October 2, 2024 3:53 PM

To: Natalie Gladden <natalie@energystaffingllc.com>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 389430

To whom it may concern (c/o Natalie Gladden for MACK ENERGY CORP),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2327759229.

The sampling event is expected to take place:

When: 10/04/2024 @ 07:00

Where: K-19-15S-29E 0 FNL 0 FEL (32.999326,-104.071112)

Additional Information: CONTACT NATALIE GLADDEN 5753906397

Additional Instructions: 32.999326 -104.071112

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC.

Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• 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.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505

Company: MACK ENERGY Location Name: WEST MOUNT SPILL B Release Date:

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil	Notes
COMP1	4	320	L	ND	ND	ND	ND	ND	145		
COMP2	6	320	L	ND	ND	ND	ND	ND	183		
COMP3	10	240	L	ND	ND	ND	ND	ND	242		
COMP4	6	160	L	ND	ND	ND	ND	ND	28.3		
COMP5	6	320	L	ND	ND	ND	ND	ND	53.9		
COMPC	C	240		ND	ND	ND	ND	ND	226		
COMP6	6	240	L	ND	ND	ND	ND	ND	236		
COMP7	6	400	L	ND	ND	ND	ND	ND	293		
COIVIF7	U	400	L	IND	IND	ND	IND	ND	293		
COMP8	6	320	L	ND	ND	ND	ND	ND	869		
COMP8A	8	400	L	ND	ND	ND	ND	ND	346		
СОМР9	6	240	L	ND	ND	ND	ND	ND	182		
COMP10	6	400	L	ND	ND	ND	ND	ND	271		
COMP11	12	480	L	ND	ND	ND	ND	ND	403		
COMP12	6	320	L	ND	ND	ND	ND	ND	461		
COMP13	6	480	L	ND	ND	ND	ND	ND	492		
						-1-					
COMP14	12	320	L	ND	ND	ND	ND	ND	171		
CON4545	12	160	,	ND	ND	ND	ND	ND	04.3		
COMP15	12	160	L	ND	ND	ND	ND	ND	81.3		

COMP16	6	160	L	ND	ND	ND	ND	ND	48.1	
COMP17	4	320	L	ND	ND	ND	ND	ND	234	
0014540		220		116	115	ND	AUD.	AUD.	246	
COMP18	6	320	L	ND	ND	ND	ND	ND	346	
COMP19	6	240	L	ND	ND	ND	ND	ND	85.6	
COIVII 13	0	240	L	ND	ND	ND	IND	ND	85.0	
COMP20	6	320	L	ND	ND	ND	ND	ND	151	
COMP21	4	320	L	ND	ND	ND	ND	ND	153	
COMP22	4	240	L	ND	ND	ND	ND	ND	85	
0111001101	•	222				2.1.1		24.4	10=	
SWCOMP1	4	320	L	ND	ND	34.4	ND	34.4	137	
SWCOMP2	6	320	L	ND	ND	ND	ND	ND	210	
3WCOWIF 2	J	320	L	IND	ND	ND	IND	IND	210	
SWCOMP3	6	240	L	ND	ND	ND	ND	ND	ND	
SWCOMP4	12	320	L	ND	ND	ND	ND	ND	92.8	
SWCOMP5	4	240	L	ND	ND	ND	ND	ND	142	
SWCOMP6	6	240	L	ND	ND	ND	ND	ND	151	
SWCOMP7	4	400	L	ND	ND	ND	ND	ND	361	
3WCOIVIF /	4	400	L	IND	ND	ND	IND	IND	301	
SWCOMP8	6	240	L	ND	ND	ND	ND	ND	21.5	
			_	_						
SWCOMP9	12	240	L	ND	ND	ND	ND	ND	33.3	
SWCOMP10	6	240	L	ND	ND	ND	ND	ND	ND	

Received by OCD: 8/20/2025 4:28:36 PM Wack Energy Page 142 of 287 Legend CompositesSide Wall Composites West Mount B Spill Composite Map SWC6 **o**_{C1} SWC5 **O**C3 **o** C7 **o** C5 **O**C9 SWC4 C2 **o**C4 **O**C8 **o** C6 **o** C10 **O**C11 **O**C12 **o** C13 **o**C14 OC22 SWC3 **o** C15 **O**C21 **o** C16 SWC9 **o** C20 **O**C17 **o** C18 SWC10 **%**C19 Google Earth

Released to Imaging: 9/24/2025 11:11:00 AM
Image © 2025 Airbus

CLIENTS: MACK ENERGY
LOCATION: WEST MOUNT SPILL B

SAMPLE ID	LAT	LONG
C1	32.999413°	-104.071350°
C2	32.999389°	-104.071342°
C3	32.999404°	-104.071310°
C4	32.999380°	-104.071300°
C5	32.999401°	-104.071265°
C6	32.999378°	-104.071256°
C7	32.999402°	-104.071219°
C8	32.999378°	-104.071218°
C9	32.999394°	-104.071182°
C10	32.999370°	-104.071175°
C11	32.999361°	-104.071300°
C12	32.999353°	-104.071253°
C13	32.999352°	-104.071218°
C14	32.999342°	-104.071290°
C15	32.999326°	-104.071253°
C16	32.999305°	-104.071252°
C17	32.999283°	-104.071249°
C18	32.999260°	-104.071221°
C19	32.999246°	-104.071187°
C20	32.999286°	-104.071208°
C21	32.999310°	-104.071210°
C22	32.999334°	-104.071197°
SWC1	32.999219°	-104.071173°
SWC2	32.999248°	-104.071245°
SWC3	32.999331°	-104.071298°
SWC4	32.999392°	-104.071367°
SWC5	32.999417°	-104.071309°
SWC6	32.999419°	-104.071224°
SWC7	32.999372°	-104.071149°
SWC8	32.999341°	-104.071190°
SWC9	32.999289°	-104.071183°
SWC10	32.999259°	-104.071179°

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount B

Work Order: E410151

Job Number: 20046-0001

Received: 10/16/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/17/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/17/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount B

Workorder: E410151

Date Received: 10/16/2024 7:45:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/16/2024 7:45:00AM, under the Project Name: West Mount B.

The analytical test results summarized in this report with the Project Name: West Mount B apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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ljarboe@envirotech-inc.com

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Client Representative

Office: 505-421-LABS(5227)

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount B	Reported:
7 W. Compress Road	Project Number:	20046-0001	Reporteu:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/24 12:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 1-4'	E410151-01A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 2-6'	E410151-02A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 3-10'	E410151-03A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 4-6'	E410151-04A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 5-6'	E410151-05A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 6-6'	E410151-06A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 7-6'	E410151-07A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.
SP Comp 8-6'	E410151-08A	Soil	10/14/24	10/16/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 12:20:09PM

SP Comp 1-4' E410151-01

		E410131-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2442094
Benzene	ND	0.0500	2	10/16/24	10/16/24	
Ethylbenzene	ND	0.0500	2	10/16/24	10/16/24	
Toluene	ND	0.0500	2	10/16/24	10/16/24	
o-Xylene	ND	0.0500	2	10/16/24	10/16/24	
p,m-Xylene	ND	0.100	2	10/16/24	10/16/24	
Total Xylenes	ND	0.0500	2	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: CG			Batch: 2442094
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442081
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/16/24	
Surrogate: n-Nonane		102 %	50-200	10/15/24	10/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2442092
Chloride	145	20.0	1	10/16/24	10/16/24	



Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 12:20:09PM

SP Comp 2-6' E410151-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442094
Benzene	ND	0.0500	2	10/16/24	10/16/24	
Ethylbenzene	ND	0.0500	2	10/16/24	10/16/24	
Toluene	ND	0.0500	2	10/16/24	10/16/24	
o-Xylene	ND	0.0500	2	10/16/24	10/16/24	
p,m-Xylene	ND	0.100	2	10/16/24	10/16/24	
Total Xylenes	ND	0.0500	2	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: CG	Batch: 2442094	
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: AF		Batch: 2442081
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/16/24	
Surrogate: n-Nonane		105 %	50-200	10/15/24	10/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2442092
Chloride	183	20.0	1	10/16/24	10/16/24	·



Surrogate: n-Nonane

Chloride

Anions by EPA 300.0/9056A

Sample Data

Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 12:20:09PM

SP Comp 3-10' E410151-03

Reporting Analyte Result Limit Dilution Prepared Analyzed Notes Analyst: CG Batch: 2442094 mg/kg mg/kg Volatile Organics by EPA 8021B 2 10/16/24 10/16/24 ND 0.0500 Benzene 2 10/16/24 10/16/24 Ethylbenzene ND 0.0500ND 0.0500 2 10/16/24 10/16/24 Toluene 10/16/24 2 10/16/24 ND o-Xylene 0.05002 10/16/24 10/16/24 ND 0.100 p,m-Xylene 2 10/16/24 10/16/24 Total Xylenes ND 0.050010/16/24 10/16/24 102 % 70-130 Surrogate: 4-Bromochlorobenzene-PID mg/kg mg/kg Analyst: CG Batch: 2442094 Nonhalogenated Organics by EPA 8015D - GRO 10/16/24 ND 40.0 2 10/16/24 Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID 94.7 % 10/16/24 10/16/24 70-130 mg/kg mg/kg Analyst: AF Batch: 2442081 Nonhalogenated Organics by EPA 8015D - DRO/ORO ND 25.0 10/15/24 10/16/24 Diesel Range Organics (C10-C28) ND 10/15/24 10/16/24 Oil Range Organics (C28-C36) 50.0 1

104 %

mg/kg

20.0

mg/kg

242

50-200

10/15/24

10/16/24

Analyst: IY

1

10/16/24

10/16/24

Batch: 2442092



Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 12:20:09PM

SP Comp 4-6' E410151-04

		E-10131-0-				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: CG		Batch: 2442094
Benzene	ND	0.0500	2	10/16/24	10/16/24	
Ethylbenzene	ND	0.0500	2	10/16/24	10/16/24	
Toluene	ND	0.0500	2	10/16/24	10/16/24	
o-Xylene	ND	0.0500	2	10/16/24	10/16/24	
p,m-Xylene	ND	0.100	2	10/16/24	10/16/24	
Total Xylenes	ND	0.0500	2	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: CG		Batch: 2442094
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: AF		Batch: 2442081
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/16/24	
Surrogate: n-Nonane		102 %	50-200	10/15/24	10/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: IY		Batch: 2442092
Chloride	28.3	20.0	1	10/16/24	10/16/24	



Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 12:20:09PM

SP Comp 5-6' E410151-05

		E410131-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2442094
Benzene	ND	0.0500	2	10/16/24	10/16/24	
Ethylbenzene	ND	0.0500	2	10/16/24	10/16/24	
Toluene	ND	0.0500	2	10/16/24	10/16/24	
o-Xylene	ND	0.0500	2	10/16/24	10/16/24	
o,m-Xylene	ND	0.100	2	10/16/24	10/16/24	
Total Xylenes	ND	0.0500	2	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2442094
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.6 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442081
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/16/24	
Surrogate: n-Nonane		99.7 %	50-200	10/15/24	10/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2442092
Chloride	53.9	20.0	1	10/16/24	10/16/24	



Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 12:20:09PM

SP Comp 6-6' E410151-06

		L-110131 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2442094
Benzene	ND	0.0500	2	10/16/24	10/16/24	
Ethylbenzene	ND	0.0500	2	10/16/24	10/16/24	
oluene	ND	0.0500	2	10/16/24	10/16/24	
-Xylene	ND	0.0500	2	10/16/24	10/16/24	
o,m-Xylene	ND	0.100	2	10/16/24	10/16/24	
Total Xylenes	ND	0.0500	2	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2442094
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442081
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/16/24	
Surrogate: n-Nonane		101 %	50-200	10/15/24	10/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2442092
Chloride	236	20.0	1	10/16/24	10/16/24	



Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 12:20:09PM

SP Comp 7-6' E410151-07

		E410131-07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2442094
Benzene	ND	0.0500	2	10/16/24	10/16/24	
Ethylbenzene	ND	0.0500	2	10/16/24	10/16/24	
Toluene	ND	0.0500	2	10/16/24	10/16/24	
-Xylene	ND	0.0500	2	10/16/24	10/16/24	
o,m-Xylene	ND	0.100	2	10/16/24	10/16/24	
Total Xylenes	ND	0.0500	2	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2442094
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442081
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/16/24	
Surrogate: n-Nonane		104 %	50-200	10/15/24	10/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2442092
Chloride	293	20.0	1	10/16/24	10/16/24	



Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 12:20:09PM

SP Comp 8-6' E410151-08

		E-10131-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: CG		Batch: 2442094
Benzene	ND	0.0500	2	10/16/24	10/16/24	
Ethylbenzene	ND	0.0500	2	10/16/24	10/16/24	
Toluene	ND	0.0500	2	10/16/24	10/16/24	
o-Xylene	ND	0.0500	2	10/16/24	10/16/24	
o,m-Xylene	ND	0.100	2	10/16/24	10/16/24	
Total Xylenes	ND	0.0500	2	10/16/24	10/16/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: CG		Batch: 2442094
Gasoline Range Organics (C6-C10)	ND	40.0	2	10/16/24	10/16/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.4 %	70-130	10/16/24	10/16/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: AF		Batch: 2442081
Diesel Range Organics (C10-C28)	ND	25.0	1	10/15/24	10/16/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/15/24	10/16/24	
Surrogate: n-Nonane		103 %	50-200	10/15/24	10/16/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: IY		Batch: 2442092
Chloride	869	20.0	1	10/16/24	10/16/24	



West Mount B Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 10/17/2024 12:20:09PM **Volatile Organics by EPA 8021B** Analyst: CG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2442094-BLK1) Prepared: 10/16/24 Analyzed: 10/16/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.12 8.00 102 70-130 LCS (2442094-BS1) Prepared: 10/16/24 Analyzed: 10/16/24 4.78 95.6 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.67 0.0250 5.00 93.4 70-130 4.75 0.0250 5.00 95.0 70-130 Toluene 93.2 o-Xylene 4.66 0.0250 5.00 70-130 9.52 10.0 95.2 70-130 0.0500 p.m-Xvlene 94.6 70-130 14.2 15.0 Total Xylenes 0.0250 8.00 101 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.10 Matrix Spike (2442094-MS1) Source: E410150-06 Prepared: 10/16/24 Analyzed: 10/16/24 6.07 0.0250 5.00 ND 121 54-133 Benzene ND 61-133 Ethylbenzene 5.93 0.0250 5.00 119 Toluene 6.02 0.0250 5.00 ND 120 61-130 ND 119 63-131 5.96 5.00 0.0250 o-Xylene p,m-Xylene 12.1 0.0500 10.0 ND 121 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.53 8.00 Matrix Spike Dup (2442094-MSD1) Source: E410150-06 Prepared: 10/16/24 Analyzed: 10/16/24 5.57 0.0250 5.00 ND 111 54-133 8.62 61-133 8.37 5.45 0.0250 5.00 ND 109 20 Ethylbenzene 61-130 Toluene 5.53 0.0250 5.00 ND 111 8 50 20 5.47 5.00 ND 109 63-131 8.56 20 o-Xylene 0.0250 11.1 10.0 ND 111 63-131 8.38 20 p,m-Xylene 0.0500



16.6

8.40

0.0250

15.0

8.00

ND

111

105

63-131

70-130

8.44

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	West Mount B	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 12:20:09PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	ı			10	/17/2024 12:20:09PM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: CG
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442094-BLK1)							Prepared: 1	0/16/24 Ana	llyzed: 10/16/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			
LCS (2442094-BS2)							Prepared: 1	0/16/24 Ana	lyzed: 10/16/24
Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		89.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.50		8.00		93.8	70-130			
Matrix Spike (2442094-MS2)				Source:	E410150-	06	Prepared: 1	0/16/24 Ana	lyzed: 10/16/24
Gasoline Range Organics (C6-C10)	50.9	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			
Matrix Spike Dup (2442094-MSD2)				Source:	E410150-	06	Prepared: 1	0/16/24 Ana	lyzed: 10/16/24
Gasoline Range Organics (C6-C10)	50.7	20.0	50.0	ND	101	70-130	0.479	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

Mack Energy	Project Name:	West Mount B	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/2024 12:20:09PM

Artesia NM, 88210		Project Manager	r: Na	italie Gladder	1				10/1//2024 12:20:09PI		
	Nonhalogenated Organics by EPA 8015D - DRO/ORO								Analyst: AF		
Analyte	Result	Reporting Limit	Spike Level	· ·		Rec	Rec Limits	RPD	RPD Limi		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2442081-BLK1)							Prepared: 1	0/15/24	Analyzed: 10/15/24		
Diesel Range Organics (C10-C28)	ND	25.0									
Dil Range Organics (C28-C36)	ND	50.0									
Surrogate: n-Nonane	46.8		50.0		93.5	50-200					
LCS (2442081-BS1)							Prepared: 1	0/15/24	Analyzed: 10/15/24		
Diesel Range Organics (C10-C28)	261	25.0	250		105	38-132					
Surrogate: n-Nonane	51.0		50.0		102	50-200					
LCS Dup (2442081-BSD1)							Prepared: 1	0/15/24	Analyzed: 10/15/24		
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132	0.433	20			
Surrogate: n-Nonane	50.6		50.0		101	50-200					



Chloride

QC Summary Data

Mack Energy		Project Name:	W	est Mount B					Reported:
7 W. Compress Road		Project Number:	20	0046-0001					
Artesia NM, 88210		Project Manager	:: Na	atalie Gladden					10/17/2024 12:20:09PM
		Anions	by EPA 3	00.0/9056A					Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442092-BLK1)							Prepared:	10/16/24	Analyzed: 10/16/24
Chloride	ND	20.0							
LCS (2442092-BS1)							Prepared:	10/16/24	Analyzed: 10/16/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2442092-MS1)				Source:	E410147-	27	Prepared:	10/16/24	Analyzed: 10/16/24
Chloride	2770	40.0	250	2450	126	80-120			M4
Matrix Spike Dup (2442092-MSD1)				Source:	E410147-	27	Prepared:	10/16/24	Analyzed: 10/16/24

250

40.0

2450

99.7

80-120

2.41

2700

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/17/24 12:20

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



ent:	11100	GMEN	MA		Bill To	1		3 -	La	ab Us	se On	ly				TA	AT		EPA P	rogram
oiect:	TUCK WKS+ Y	Mount	12		Attention: ENERGY STAFFING	G SERVICES	Lab	WO#			Job I		ber	1D	2D	3D	Standa	rd	CWA	SDWA
	lanager:				Address: 2724 NW COUNTY F		EL	1101	151		200	46	-0001		-					
dress:					City, State, Zip HOBBS, NM	88240					Analy	sis a	nd Meth	od						RCRA
y, Stat	e, Zip				Phone: 575-393-9048															
one:					Email: NATALIE@ENERGYSTAF	FINGLLC.COM	115	115											State	
nail:					BRITTNEY@ENERGYSTA	FFINGLLC.COM	y 80	y 80	21	0	0	0.0		Σ			NM	00	UT AZ	TX
port d	ue by:						80	ROB	y 80	826	601	e 30			×		V	1		
Time ampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	ВТЕХ БУ 8021	VOC by 8260	Metals 6010	Chloride 300.0		ВСБОС	ВСБОС				Remarks	
	10/14	5	1	SP. Comp	1-4')								V	1					
	1	1		SP. Com		2								V						
					np. 3-10'	3								0						
					np. 4 - 6'	4								V	/					
						5								V						
					mp. 5-6'	6									1					
	1			SP. LOV	np. U-6	V				-	-			-		-		_		
	V	V	V	SP Con	mp 7-6'	7								V						
	10/14	S	U	SP. Co.	mp. 7-6' mp. 8-6'	8								L	1					
					1															
dition	al Instruc	tions:																		
				icity of this sample. I a	am aware that tampering with or intentionally r	mislabelling the sample											ceived on ice t 6 °C on subsec			led or received
linquish	ed by: (Sign:	- /	Date 10	14/24 Time	Received by: (Signature)	ales 10-15)	4	Time	345	5	Rece	eive	d on ice:		ab U	se On	nly			
Vic	ed by: (Sign:	Jonga	Date		Received by: (Signature)	10-15					T1			7			<u>T3</u> _			
houigh	ed by: (Sign:	QQ ₂	Date		Received by: (Signature)	Date 10-16-7		Time	74:		AVG	Ter	np°C							
	A	d - Solid, Sg -		queous, O - Other		Containe	Тур	e: g - f	glass,	p - p		_			iss, v	- VOA				
					inless other arrangements are made. Haz													ne ana	lysis of the	above

samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Page 162 of 287

Printed: 10/16/2024 8:54:50AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

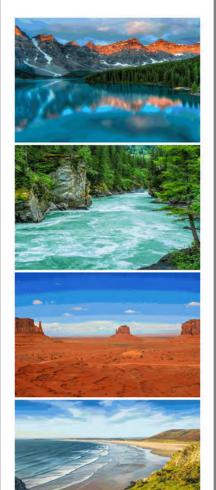
Client:	Mack Energy	Date Received:	10/16/24 07	··45		Work Order ID:	E410151
Phone:	(575) 390-6397		10/15/24 15			Logged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Date Logged In: Due Date:		7:00 (1 day TAT)		Logged III By.	Caltilli Mais
Eman.	1-vatane@energystamingne.com	Duc Date.	10/11/241/	.00 (1 day 1741)			
Chain of	Custody (COC)						
1. Does th	e sample ID match the COC?		Yes				
2. Does th	e number of samples per sampling site location man	tch the COC	Yes				
3. Were sa	imples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	COC complete, i.e., signatures, dates/times, reques	sted analyses?	No	_			
5. Were al	l samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in					Comment	s/Resolution
Sample T	i.e, 15 minute hold time, are not included in this disucssicurn Around Time (TAT)	on.		ı		<u>commun</u>	57 T T T T T T T T T T T T T T T T T T T
	COC indicate standard TAT, or Expedited TAT?		Yes		Proiect M	anager and tin	ne sampled not
	•		103			on COC per cl	•
Sample C	ample cooler received?		Yes		provided	on coc per er	iciit.
	was cooler received in good condition?		Yes				
•	e sample(s) received intact, i.e., not broken?						
			Yes				
	custody/security seals present?		No				
•	were custody/security seals intact?		NA				
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar		Yes				
	minutes of sampling	e received w/r 15					
13. If no v	visible ice, record the temperature. Actual sample	temperature: 4°C	<u>C</u>				
Sample C	ontainer	_					
	ueous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
18. Are no	on-VOC samples collected in the correct containers'	?	Yes				
19. Is the a	ppropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lab	<u>el</u>						
20. Were	field sample labels filled out with the minimum info	ormation:					
	imple ID?		Yes				
	ate/Time Collected?		Yes	•			
	ollectors name?		No				
	reservation the COC or field labels indicate the samples were preciously.	reserved?	No				
	mple(s) correctly preserved?	reserved.	NA				
	filteration required and/or requested for dissolved n	netals?	No				
	i i		110				
	se Sample Matrix he sample have more than one phase, i.e., multipha	so?	NT-				
	does the COC specify which phase(s) is to be analy		No				
•		yzeu:	NA				
	act Laboratory						
	imples required to get sent to a subcontract laborato	-	No				
29. Was a	subcontract laboratory specified by the client and it	f so who?	NA S	Subcontract Lab	: NA		
Client In	struction						

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount B

Work Order: E410165

Job Number: 20046-0001

Received: 10/17/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/18/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/18/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount B

Workorder: E410165

Date Received: 10/17/2024 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/17/2024 8:00:00AM, under the Project Name: West Mount B.

The analytical test results summarized in this report with the Project Name: West Mount B apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount B	Donovtoda
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/24 14:06

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP. 9-6'	E410165-01A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.
SP. 10-6'	E410165-02A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.
SP. 11-12'	E410165-03A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.
SP. 12-6'	E410165-04A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.
SP. 13-6'	E410165-05A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.
SP. 14-12'	E410165-06A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.
SP. 15-12'	E410165-07A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.
SP. 16-6'	E410165-08A	Soil	10/15/24	10/17/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:06:25PM

SP. 9-6' E410165-01

		E-10103-01				
Analyte	Result	Reporting Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: CG		Batch: 2442121
Benzene	ND	0.0250	1	10/17/24	10/17/24	
Ethylbenzene	ND	0.0250	1	10/17/24	10/17/24	
Toluene	ND	0.0250	1	10/17/24	10/17/24	
o-Xylene	ND	0.0250	1	10/17/24	10/17/24	
p,m-Xylene	ND	0.0500	1	10/17/24	10/17/24	
Total Xylenes	ND	0.0250	1	10/17/24	10/17/24	
Surrogate: 4-Bromochlorobenzene-PID		90.7 %	70-130	10/17/24	10/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: CG		Batch: 2442121
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/24	10/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.9 %	70-130	10/17/24	10/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: AF		Batch: 2442129
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/24	10/17/24	
Surrogate: n-Nonane		98.4 %	50-200	10/17/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2442124
Chloride	182	20.0	1	10/17/24	10/17/24	



Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:06:25PM

SP. 10-6' E410165-02

	E-110103 02				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	lyst: CG		Batch: 2442121
ND	0.0250	1	10/17/24	10/17/24	
ND	0.0250	1	10/17/24	10/17/24	
ND	0.0250	1	10/17/24	10/17/24	
ND	0.0250	1	10/17/24	10/17/24	
ND	0.0500	1	10/17/24	10/17/24	
ND	0.0250	1	10/17/24	10/17/24	
	90.2 %	70-130	10/17/24	10/17/24	
mg/kg	mg/kg	Anal	lyst: CG		Batch: 2442121
ND	20.0	1	10/17/24	10/17/24	
	98.5 %	70-130	10/17/24	10/17/24	
mg/kg	mg/kg	Anal	lyst: AF		Batch: 2442129
ND	25.0	1	10/17/24	10/17/24	
ND	50.0	1	10/17/24	10/17/24	
	96.3 %	50-200	10/17/24	10/17/24	
mg/kg	mg/kg	Anal	lyst: IY		Batch: 2442124
271	20.0	1	10/17/24	10/17/24	
	mg/kg ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 mg/kg mg/kg ND 20.0 98.5 % mg/kg ND 25.0 ND 50.0 96.3 % mg/kg mg/kg mg/kg	mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 90.2 % 70-130 mg/kg mg/kg Anal ND 20.0 1 98.5 % 70-130 1 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 96.3 % 50-200 mg/kg mg/kg Anal	Result Limit Dilution Prepared mg/kg mg/kg Analyst: CG ND 0.0250 1 10/17/24 ND 0.0250 1 10/17/24 ND 0.0250 1 10/17/24 ND 0.0250 1 10/17/24 ND 0.0500 1 10/17/24 ND 0.0250 1 10/17/24 mg/kg mg/kg Analyst: CG ND 20.0 1 10/17/24 mg/kg mg/kg Analyst: AF ND 25.0 1 10/17/24 ND 25.0 1 10/17/24 ND 50.0 1 10/17/24 ND 50.0 1 10/17/24 Mg/kg Mg/kg Analyst: AF	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: CG ND 0.0250 1 10/17/24 10/17/24 ND 0.0250 1 10/17/24 10/17/24 ND 0.0250 1 10/17/24 10/17/24 ND 0.0500 1 10/17/24 10/17/24 ND 0.0250 1 10/17/24 10/17/24 ND 0.0250 1 10/17/24 10/17/24 mg/kg mg/kg Analyst: CG ND 20.0 1 10/17/24 10/17/24 mg/kg mg/kg Analyst: CG 1 10/17/24 10/17/24 mg/kg mg/kg Analyst: AF 1 10/17/24 10/17/24 ND 25.0 1 10/17/24 10/17/24 10/17/24 ND 50.0 1 10/17/24 10/17/24 10/17/24 ND 50.0 1 10/17/24 10/17/24



Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:06:25PM

SP. 11-12' E410165-03

	E410103 03				
Result	Reporting Limit		Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442121
ND	0.0250	1	10/17/24	10/17/24	
ND	0.0250	1	10/17/24	10/17/24	
ND	0.0250	1	10/17/24	10/17/24	
ND	0.0250	1	10/17/24	10/17/24	
ND	0.0500	1	10/17/24	10/17/24	
ND	0.0250	1	10/17/24	10/17/24	
	91.1 %	70-130	10/17/24	10/17/24	
mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442121
ND	20.0	1	10/17/24	10/17/24	
	98.7 %	70-130	10/17/24	10/17/24	
mg/kg	mg/kg	Ana	lyst: AF		Batch: 2442129
ND	25.0	1	10/17/24	10/17/24	
ND	50.0	1	10/17/24	10/17/24	
	96.1 %	50-200	10/17/24	10/17/24	
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2442124
403	20.0	1	10/17/24	10/17/24	
	mg/kg ND Mg/kg ND mg/kg	Result Reporting Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 20.0250 91.1 % mg/kg MD 20.0 98.7 % mg/kg MD 25.0 ND 50.0 96.1 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Ana ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 91.1 % 70-130 mg/kg mg/kg Ana ND 20.0 1 98.7 % 70-130 mg/kg mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 96.1 % 50-200 mg/kg Mg/kg Ana	Reporting Result Limit Dilution Prepared mg/kg Manalyst: CG ND 0.0250 1 10/17/24 ND 0.0250 1 10/17/24 ND 0.0250 1 10/17/24 ND 0.0250 1 10/17/24 ND 0.0500 1 10/17/24 ND 0.0250 1 10/17/24 mg/kg mg/kg Analyst: CG ND 20.0 1 10/17/24 mg/kg mg/kg Analyst: AF ND 25.0 1 10/17/24 ND 25.0 1 10/17/24 ND 50.0 1 10/17/24 ND 50.0 1 10/17/24 mg/kg mg/kg Analyst: AF	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: CG ND 0.0250 1 10/17/24 10/17/24 ND 0.0250 1 10/17/24 10/17/24 ND 0.0250 1 10/17/24 10/17/24 ND 0.0500 1 10/17/24 10/17/24 ND 0.0250 1 10/17/24 10/17/24 ND 0.0250 1 10/17/24 10/17/24 Mg/kg mg/kg Analyst: CG ND 20.0 1 10/17/24 10/17/24 mg/kg mg/kg Analyst: CG 1 10/17/24 10/17/24 mg/kg mg/kg Analyst: AF 1 10/17/24 10/17/24 ND 25.0 1 10/17/24 10/17/24 ND 50.0 1 10/17/24 10/17/24 ND 50.0 1 10/17/24 10/17/24



Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:06:25PM

SP. 12-6' E410165-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442121
Benzene	ND	0.0250	1	10/17/24	10/17/24	
Ethylbenzene	ND	0.0250	1	10/17/24	10/17/24	
Toluene	ND	0.0250	1	10/17/24	10/17/24	
o-Xylene	ND	0.0250	1	10/17/24	10/17/24	
p,m-Xylene	ND	0.0500	1	10/17/24	10/17/24	
Total Xylenes	ND	0.0250	1	10/17/24	10/17/24	
Surrogate: 4-Bromochlorobenzene-PID		90.3 %	70-130	10/17/24	10/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: CG		Batch: 2442121
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/24	10/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.1 %	70-130	10/17/24	10/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: AF		Batch: 2442129
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/24	10/17/24	
Surrogate: n-Nonane		92.1 %	50-200	10/17/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2442124
Chloride	461	20.0	1	10/17/24	10/17/24	



Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:06:25PM

SP. 13-6' E410165-05

	E410103 03				
Result	Reporting Limit		Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442121
ND	0.0250	1	10/17/24	10/17/24	
ND	0.0250	1	10/17/24	10/17/24	
ND	0.0250	1	10/17/24	10/17/24	
ND	0.0250	1	10/17/24	10/17/24	
ND	0.0500	1	10/17/24	10/17/24	
ND	0.0250	1	10/17/24	10/17/24	
	91.2 %	70-130	10/17/24	10/17/24	
mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442121
ND	20.0	1	10/17/24	10/17/24	
	98.5 %	70-130	10/17/24	10/17/24	
mg/kg	mg/kg	Ana	lyst: AF		Batch: 2442129
ND	25.0	1	10/17/24	10/17/24	
ND	50.0	1	10/17/24	10/17/24	
	95.1 %	50-200	10/17/24	10/17/24	
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2442124
492	20.0	1	10/17/24	10/17/24	
	mg/kg ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 MD 20.0 98.5 % mg/kg MD 25.0 ND 50.0 95.1 % mg/kg mg/kg mg/kg	mg/kg mg/kg Ana ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 91.2 % 70-130 mg/kg mg/kg Ana ND 20.0 1 98.5 % 70-130 1 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 95.1 % 50-200 mg/kg mg/kg Ana	Result Limit Dilution Prepared mg/kg mg/kg Analyst: CG ND 0.0250 1 10/17/24 ND 0.0250 1 10/17/24 ND 0.0250 1 10/17/24 ND 0.0250 1 10/17/24 ND 0.0500 1 10/17/24 ND 0.0250 1 10/17/24 mg/kg mg/kg Analyst: CG ND 20.0 1 10/17/24 mg/kg mg/kg Analyst: AF ND 25.0 1 10/17/24 ND 25.0 1 10/17/24 ND 50.0 1 10/17/24 ND 50.0 1 10/17/24 Mg/kg Mg/kg Analyst: AF	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: CG ND 0.0250 1 10/17/24 10/17/24 ND 0.0250 1 10/17/24 10/17/24 ND 0.0250 1 10/17/24 10/17/24 ND 0.0500 1 10/17/24 10/17/24 ND 0.0250 1 10/17/24 10/17/24 ND 0.0250 1 10/17/24 10/17/24 mg/kg mg/kg Analyst: CG ND 20.0 1 10/17/24 10/17/24 mg/kg mg/kg Analyst: CG 1 10/17/24 10/17/24 mg/kg mg/kg Analyst: AF 1 10/17/24 10/17/24 ND 25.0 1 10/17/24 10/17/24 10/17/24 ND 50.0 1 10/17/24 10/17/24 10/17/24 ND 50.0 1 10/17/24 10/17/24



Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:06:25PM

SP. 14-12' E410165-06

		E-10103-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: CG		Batch: 2442121
Benzene	ND	0.0250	1	10/17/24	10/17/24	
Ethylbenzene	ND	0.0250	1	10/17/24	10/17/24	
Toluene	ND	0.0250	1	10/17/24	10/17/24	
o-Xylene	ND	0.0250	1	10/17/24	10/17/24	
p,m-Xylene	ND	0.0500	1	10/17/24	10/17/24	
Total Xylenes	ND	0.0250	1	10/17/24	10/17/24	
Surrogate: 4-Bromochlorobenzene-PID		91.1 %	70-130	10/17/24	10/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: CG		Batch: 2442121
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/24	10/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.6 %	70-130	10/17/24	10/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: AF		Batch: 2442129
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/24	10/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/24	10/17/24	
Surrogate: n-Nonane		100 %	50-200	10/17/24	10/17/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2442124
Chloride	171	20.0	1	10/17/24	10/17/24	



Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:06:25PM

SP. 15-12' E410165-07

	E-10103-07				
Result	Reporting Limit		Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442121
ND	0.0250	1	10/17/24	10/17/24	
ND	0.0250	1	10/17/24	10/17/24	
ND	0.0250	1	10/17/24	10/17/24	
ND	0.0250	1	10/17/24	10/17/24	
ND	0.0500	1	10/17/24	10/17/24	
ND	0.0250	1	10/17/24	10/17/24	
	93.4 %	70-130	10/17/24	10/17/24	
mg/kg	mg/kg	Ana	lyst: CG		Batch: 2442121
ND	20.0	1	10/17/24	10/17/24	
	99.4 %	70-130	10/17/24	10/17/24	
mg/kg	mg/kg	Ana	lyst: AF		Batch: 2442129
ND	25.0	1	10/17/24	10/17/24	
ND	50.0	1	10/17/24	10/17/24	
	95.2 %	50-200	10/17/24	10/17/24	
mg/kg	mg/kg	Ana	lyst: IY		Batch: 2442124
81.3	20.0	1	10/17/24	10/17/24	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Reporting Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 MD 0.0250 MD 20.0250 93.4 % mg/kg MD 20.0 99.4 % mg/kg ND 25.0 ND 50.0 95.2 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Ana ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 93.4 % 70-130 mg/kg mg/kg Ana ND 20.0 1 99.4 % 70-130 1 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 95.2 % 50-200 mg/kg mg/kg Ana	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: CG ND 0.0250 1 10/17/24 ND 0.0250 1 10/17/24 ND 0.0250 1 10/17/24 ND 0.0500 1 10/17/24 ND 0.0250 1 10/17/24 mg/kg mg/kg Analyst: CG ND 20.0 1 10/17/24 mg/kg mg/kg Analyst: AF ND 25.0 1 10/17/24 ND 25.0 1 10/17/24 ND 50.0 1 10/17/24 ND 50.0 1 10/17/24 ND 50.0 1 10/17/24 mg/kg mg/kg Analyst: AF	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: CG ND 0.0250 1 10/17/24 10/17/24 ND 0.0250 1 10/17/24 10/17/24 ND 0.0250 1 10/17/24 10/17/24 ND 0.0500 1 10/17/24 10/17/24 ND 0.0250 1 10/17/24 10/17/24 ND 0.0250 1 10/17/24 10/17/24 Mg/kg mg/kg Analyst: CG 1 10/17/24 10/17/24 mg/kg mg/kg Analyst: CG 1 10/17/24 10/17/24 mg/kg mg/kg Analyst: AF 1 10/17/24 10/17/24 ND 25.0 1 10/17/24 10/17/24 10/17/24 ND 50.0 1 10/17/24 10/17/24 10/17/24 ND 50.0 1 10/17/24 10/17/24 <td< td=""></td<>



Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:06:25PM

SP. 16-6' E410165-08

		E-10103-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2442121
Benzene	ND	0.0250	1	10/17/24	10/17/24	
Ethylbenzene	ND	0.0250	1	10/17/24	10/17/24	
Toluene	ND	0.0250	1	10/17/24	10/17/24	
o-Xylene	ND	0.0250	1	10/17/24	10/17/24	
p,m-Xylene	ND	0.0500	1	10/17/24	10/17/24	
Total Xylenes	ND	0.0250	1	10/17/24	10/17/24	
Surrogate: 4-Bromochlorobenzene-PID		92.2 %	70-130	10/17/24	10/17/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2442121
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/17/24	10/17/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.1 %	70-130	10/17/24	10/17/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442129
Diesel Range Organics (C10-C28)	ND	25.0	1	10/17/24	10/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/17/24	10/18/24	
Surrogate: n-Nonane		97.2 %	50-200	10/17/24	10/18/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2442124
Chloride	48.1	20.0	1	10/17/24	10/17/24	



West Mount B Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 10/18/2024 2:06:25PM **Volatile Organics by EPA 8021B** Analyst: CG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2442121-BLK1) Prepared: 10/17/24 Analyzed: 10/17/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.33 8.00 91.6 70-130 LCS (2442121-BS1) Prepared: 10/17/24 Analyzed: 10/17/24 4.95 99.0 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.88 0.0250 5.00 97.7 70-130 4.95 0.0250 5.00 99.1 70-130 Toluene o-Xylene 4.88 0.0250 5.00 97.6 70-130 9.89 10.0 98.9 70-130 0.0500 p.m-Xvlene 98.5 70-130 14.8 15.0 Total Xylenes 0.0250 8.00 91.3 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.30 Source: E410165-03 Matrix Spike (2442121-MS1) Prepared: 10/17/24 Analyzed: 10/17/24 5.06 0.0250 5.00 ND 54-133 Benzene ND 61-133 Ethylbenzene 4.99 0.0250 5.00 99.7 Toluene 5.06 0.0250 5.00 ND 101 61-130 4.99 ND 99.8 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.1 0.0500 10.0 ND 101 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.16 8.00 Matrix Spike Dup (2442121-MSD1) Source: E410165-03 Prepared: 10/17/24 Analyzed: 10/17/24 4.94 0.0250 5.00 ND 98.9 54-133 2.41 20 61-133 2.20 4.88 0.0250 5.00 ND 97.5 20 Ethylbenzene 61-130 Toluene 4 95 0.0250 5.00 ND 99.1 2 19 20 4.87 5.00 ND 97.5 63-131 2.38 20 o-Xylene 0.0250 9.89 10.0 ND 98.9 63-131 2.05 20 p,m-Xylene 0.0500



14.8

7.23

0.0250

15.0

8.00

ND

98.5

90.4

63-131

70-130

2.16

20

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

QC Summary Data

Mack Energy	Project Name:	West Mount B	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:06:25PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1			10	0/18/2024 2:06:25PM
	Non	halogenated	Organics	by EPA 80	15D - Gl	RO			Analyst: CG
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2442121-BLK1)							Prepared: 1	0/17/24 Ana	alyzed: 10/17/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.03		8.00		100	70-130			
LCS (2442121-BS2)							Prepared: 1	0/17/24 Ana	alyzed: 10/17/24
Gasoline Range Organics (C6-C10)	42.5	20.0	50.0		85.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.05		8.00		101	70-130			
Matrix Spike (2442121-MS2)				Source:	E410165-	03	Prepared: 1	0/17/24 Ana	alyzed: 10/17/24
Gasoline Range Organics (C6-C10)	43.6	20.0	50.0	ND	87.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.06		8.00		101	70-130			
Matrix Spike Dup (2442121-MSD2)				Source:	E410165-	03	Prepared: 1	0/17/24 Ana	alyzed: 10/17/24
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.9	70-130	2.96	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.04		8.00		100	70-130			



Mack Energy	Project Name:	West Mount B	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/2024 2:06:25PM

Artesia NM, 88210		Project Manage	r: Na	talie Gladder	1			10	0/18/2024 2:06:25P
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: AF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442129-BLK1)							Prepared: 1	0/17/24 Ana	alyzed: 10/17/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.7		50.0		91.5	50-200			
LCS (2442129-BS1)							Prepared: 1	0/17/24 Ana	alyzed: 10/17/24
Diesel Range Organics (C10-C28)	242	25.0	250		96.7	38-132			
Surrogate: n-Nonane	48.5		50.0		96.9	50-200			
Matrix Spike (2442129-MS1)				Source: E410164-01		Prepared: 10/17/24 Analyzed: 10/17/24			
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	49.5		50.0		99.0	50-200			
Matrix Spike Dup (2442129-MSD1)				Source:	E410164-0	01	Prepared: 1	0/17/24 Ana	alyzed: 10/17/24
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	38-132	1.65	20	
Surrogate: n-Nonane	49.7		50.0		99.3	50-200			



Mack Energy		Project Name:		est Mount B					Re	ported:
7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager:		046-0001 atalie Gladden					10/18/202	24 2:06:25PM
		Anions	by EPA 3	00.0/9056A					Analy	yst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%		Notes
Blank (2442124-BLK1)							Prepared:	10/17/24	Analyzed:	10/17/24
Chloride	ND	20.0								
LCS (2442124-BS1)							Prepared:	10/17/24	Analyzed:	10/17/24
Chloride	254	20.0	250		101	90-110				
Matrix Spike (2442124-MS1)				Source:	E410165-0	05	Prepared:	10/17/24	Analyzed:	10/17/24
Chloride	766	20.0	250	492	109	80-120				
Matrix Spike Dup (2442124-MSD1)				Source:	E410165-0	05	Prepared:	10/17/24	Analyzed:	10/17/24
Chloride	716	20.0	250	492	89.4	80-120	6.73	20		

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/18/24 14:06

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the repurs.

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Received by OCD: 8/20/2025 4:28:36 PM

Page 181 of 287

Printed: 10/17/2024 8:52:19AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Mack Energy	Date Received:	10/17/24 (08:00	Wo	rk Order ID:	E410165
Phone:	(575) 390-6397	Date Logged In:	10/16/24	14:33	Log	gged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:	10/18/24	17:00 (1 day TAT)			
1. Does th 2. Does th	Custody (COC) e sample ID match the COC? e number of samples per sampling site location mat umples dropped off by client or carrier?	ch the COC	Yes Yes Yes	Carrier: <u>C</u>	<u>Courier</u>		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	No				
	l samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic		Yes	r		Comment	s/Resolution
	urn Around Time (TAT) COC indicate standard TAT, or Expedited TAT?		Yes		<u>-</u>	_	ne sampled not
Sample C	ooler_				provided on C	OC per c	lient.
7. Was a s	ample cooler received?		Yes				
8. If yes, v	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes				
Sample C			_				
	ueous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?	ı	Yes				
19. Is the a	appropriate volume/weight or number of sample contain	ers collected?	Yes				
	e <u>l</u> field sample labels filled out with the minimum info umple ID?	rmation:	Yes				
	ate/Time Collected?		Yes	L			
	ollectors name?		No				
	reservation						
	the COC or field labels indicate the samples were pr	eserved?	No				
	mple(s) correctly preserved?	-4-1-9	NA				
	filteration required and/or requested for dissolved m	etais?	No				
	se Sample Matrix						
	the sample have more than one phase, i.e., multiphase		No				
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA				
28. Are sa	act Laboratory mples required to get sent to a subcontract laborator subcontract laboratory specified by the client and if	•	No NA	Subcontract Lab	o: NA		
Client In	struction_						
<u> </u>	ure of client authorizing changes to the COC or sample disp				Date		envirotech Inc.

Signature of client authorizing changes to the COC or sample disposition.

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill B

Work Order: E410176

Job Number: 20046-0001

Received: 10/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/21/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/21/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount Spill B

Workorder: E410176

Date Received: 10/18/2024 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/18/2024 8:00:00AM, under the Project Name: West Mount Spill B.

The analytical test results summarized in this report with the Project Name: West Mount Spill B apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

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Office: 505-421-LABS(5227)

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount Spill B	Donoutodi
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/24 16:39

Client Sample ID	Lab Sample ID M	Iatrix	Sampled	Received	Container
SW Comp 1-4'	E410176-01A	Soil	10/16/24	10/18/24	Glass Jar, 2 oz.
SW Comp 2-6'	E410176-02A	Soil	10/16/24	10/18/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 4:39:55PM

SW Comp 1-4' E410176-01

	E4101/0-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	·			Batch: 2442141
ND	0.0250	1	10/18/24	10/19/24	
ND	0.0250	1	10/18/24	10/19/24	
ND	0.0250	1	10/18/24	10/19/24	
ND	0.0250	1	10/18/24	10/19/24	
ND	0.0500	1	10/18/24	10/19/24	
ND	0.0250	1	10/18/24	10/19/24	
	104 %	70-130	10/18/24	10/19/24	
mg/kg	mg/kg	Analyst: BA			Batch: 2442141
ND	20.0	1	10/18/24	10/19/24	
	89.9 %	70-130	10/18/24	10/19/24	
mg/kg	mg/kg	Anal	yst: NV		Batch: 2442143
34.4	25.0	1	10/18/24	10/19/24	
ND	50.0	1	10/18/24	10/19/24	
	104 %	50-200	10/18/24	10/19/24	
mg/kg	mg/kg	Anal	yst: WF		Batch: 2442145
137	40.0	2	10/18/24	10/18/24	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg 34.4 ND	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 IO4 % mg/kg mg/kg mg/kg ND 20.0 89.9 % mg/kg mg/kg mg/kg ND 50.0 104 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Anal ND 0.0250 1 MD 0.0250 1 MD 70-130 1 mg/kg mg/kg Anal ND 20.0 1 89.9 % 70-130 1 mg/kg mg/kg Anal 34.4 25.0 1 ND 50.0 1 104 % 50-200 mg/kg Mg/kg Anal	Reporting Result Limit Dilution Prepared mg/kg Analyst: BA ND 0.0250 1 10/18/24 ND 0.0250 1 10/18/24 ND 0.0250 1 10/18/24 ND 0.0500 1 10/18/24 ND 0.0250 1 10/18/24 ND 0.0250 1 10/18/24 mg/kg mg/kg Analyst: BA ND 20.0 1 10/18/24 mg/kg mg/kg Analyst: NV 34.4 25.0 1 10/18/24 ND 50.0 1 10/18/24 ND 50.0 1 10/18/24 MB/kg Mg/kg Analyst: NV Analyst: WF	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 10/18/24 10/19/24 ND 0.0250 1 10/18/24 10/19/24 ND 0.0250 1 10/18/24 10/19/24 ND 0.0500 1 10/18/24 10/19/24 ND 0.0250 1 10/18/24 10/19/24 ND 0.0250 1 10/18/24 10/19/24 mg/kg mg/kg Analyst: BA ND 20.0 1 10/18/24 10/19/24 mg/kg mg/kg Analyst: NV 34.4 25.0 1 10/18/24 10/19/24 ND 50.0 1

Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 4:39:55PM

SW Comp 2-6' E410176-02

		E-710170-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	Analy	st: BA		Batch: 2442141
Benzene	ND	0.0250	1	10/18/24	10/19/24	
Ethylbenzene	ND	0.0250	1	10/18/24	10/19/24	
Toluene	ND	0.0250	1	10/18/24	10/19/24	
o-Xylene	ND	0.0250	1	10/18/24	10/19/24	
o,m-Xylene	ND	0.0500	1	10/18/24	10/19/24	
Total Xylenes	ND	0.0250	1	10/18/24	10/19/24	
Surrogate: 4-Bromochlorobenzene-PID		104 %	70-130	10/18/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2442141
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/18/24	10/19/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	10/18/24	10/19/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2442143
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/24	10/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/24	10/19/24	
Surrogate: n-Nonane		104 %	50-200	10/18/24	10/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: WF		Batch: 2442145
Chloride	210	20.0	1	10/18/24	10/18/24	



West Mount Spill B Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 10/21/2024 4:39:55PM **Volatile Organics by EPA 8021B** Analyst: BA Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2442141-BLK1) Prepared: 10/18/24 Analyzed: 10/19/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.15 8.00 102 70-130 LCS (2442141-BS1) Prepared: 10/18/24 Analyzed: 10/19/24 5.20 104 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.28 0.0250 5.00 106 70-130 5.34 0.0250 5.00 107 70-130 Toluene 107 o-Xylene 5.36 0.0250 5.00 70-130 10.7 10.0 107 70-130 0.0500 p.m-Xvlene 107 70-130 16.0 15.0 Total Xylenes 0.0250 8.00 102 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.19 Matrix Spike (2442141-MS1) Source: E410178-03 Prepared: 10/18/24 Analyzed: 10/19/24 5.15 0.0250 5.00 ND 54-133 Benzene ND 105 61-133 Ethylbenzene 5.27 0.0250 5.00 Toluene 5.31 0.0250 5.00 ND 106 61-130 5.34 ND 107 63-131 5.00 0.0250 o-Xylene p,m-Xylene 10.7 0.0500 10.0 ND 107 63-131 16.0 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.12 8.00 Matrix Spike Dup (2442141-MSD1) Source: E410178-03 Prepared: 10/18/24 Analyzed: 10/19/24 5.20 0.0250 5.00 ND 54-133 0.917 ND 61-133 5.33 0.0250 5.00 107 1.23 20 Ethylbenzene

61-130

63-131

63-131

63-131

70-130

0.960

1.41

1.31

1.34

20

20

20

20



5.37

5.42

10.8

16.2

8.09

0.0250

0.0250

0.0500

0.0250

5.00

5.00

10.0

15.0

8.00

ND

ND

ND

ND

107

108

108

108

101

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	West Mount Spill B	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 4:39:55PM

Artesia NM, 88210		Project Manage	r: Na	ntalie Gladder	n			10	0/21/2024 4:39:55PM
	Nor	halogenated	Organics	by EPA 80	15D - Gl	RO			Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2442141-BLK1)							Prepared: 1	0/18/24 Ana	alyzed: 10/19/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.18		8.00		89.7	70-130			
LCS (2442141-BS2)							Prepared: 1	0/18/24 Ana	alyzed: 10/19/24
Gasoline Range Organics (C6-C10)	37.0	20.0	50.0		74.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.19		8.00		89.9	70-130			
Matrix Spike (2442141-MS2)				Source:	E410178-	03	Prepared: 1	0/18/24 Ana	alyzed: 10/19/24
Gasoline Range Organics (C6-C10)	42.2	20.0	50.0	ND	84.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.3	70-130			
Matrix Spike Dup (2442141-MSD2)				Source:	E410178-	03	Prepared: 1	0/18/24 Ana	alyzed: 10/19/24
Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.1	70-130	0.341	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			



Mack EnergyProject Name:West Mount Spill BReported:7 W. Compress RoadProject Number:20046-0001Artesia NM, 88210Project Manager:Natalie Gladden10/21/2024 4:39:55PM

Artesia NM, 88210		Project Manager	r: Na	talie Gladder	1				10/21/2024 4:39:33P
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442143-BLK1)							Prepared: 1	0/18/24 A	nalyzed: 10/19/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	50.0		50.0		100	50-200			
LCS (2442143-BS1)							Prepared: 1	0/18/24 A	nalyzed: 10/19/24
Diesel Range Organics (C10-C28)	263	25.0	250		105	38-132			
urrogate: n-Nonane	51.6		50.0		103	50-200			
Matrix Spike (2442143-MS1)				Source:	E410176-0	01	Prepared: 1	0/18/24 A	nalyzed: 10/19/24
Diesel Range Organics (C10-C28)	292	25.0	250	34.4	103	38-132			
urrogate: n-Nonane	51.5		50.0		103	50-200			
Matrix Spike Dup (2442143-MSD1)				Source:	E410176-0	01	Prepared: 1	0/18/24 A	nalyzed: 10/19/24
Diesel Range Organics (C10-C28)	291	25.0	250	34.4	102	38-132	0.605	20	
urrogate: n-Nonane	51.6		50.0		103	50-200			



Mack Energy 7 W. Compress Road		Project Name: Project Number:	20	Vest Mount Sp 10046-0001					•	orted:
Artesia NM, 88210		Project Manager		atalie Gladder						4:39:55PM
		Anions	by EPA	300.0/9056 <i>A</i>	4				Analyst	: WF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%		Notes
Blank (2442145-BLK1)							Prepared: 10	0/18/24 A	nalyzed: 1	0/18/24
Chloride	ND	20.0								
LCS (2442145-BS1)							Prepared: 10	0/18/24 A	nalyzed: 1	0/18/24
Chloride	249	20.0	250		99.8	90-110				
Matrix Spike (2442145-MS1)				Source:	E410177-0)2	Prepared: 10	0/18/24 A	nalyzed: 1	0/18/24
Chloride	69900	2000	250	32200	NR	80-120				M4
Matrix Spike Dup (2442145-MSD1)				Source:	E410177-0)2	Prepared: 10	0/18/24 A	nalyzed: 1	0/18/24
Chloride	75600	2000	250	32200	NR	80-120	7.91	20		M4

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

ſ	Mack Energy	Project Name:	West Mount Spill B	
l	7 W. Compress Road	Project Number:	20046-0001	Reported:
١	Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/24 16:39

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Released to Imaging: 9/24/202

Project information City, State, Zip Project Manager Project West Mount Phone Cherit Mack Faces Report due by Email. dances time of collections is considered based and may be grounds for legal action Additional Instructions: (field campler) affect to the validity and authenticity of this sample. Fam aware that tempering with or intentionally mista samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount haid to on the report. Note. Samples are chicarded 30 days after results are reported unless other arrangements are made. Hazardour camples will be returned to client or disposed of at the client expense. linguished by (Signature) 91/0 SPINB 10.17.24 10-17-24 10/16/24 Sample iD 3 Attention: ENERGY STATFING SERVICES Email City, State, Zip Phone: NATALILERNERGYSTAFFINGLIC COM RRELEMBY@ENERGYSTAFFINGLECTOM 375 393 9048 2774 NW COUNTY RD HOBBS NM 88240 panipied by Just Bill To Chain of Custody Nunbon B he sample luration. E4/0/76 2046.000 DROVORO BY 8015 CHO/CHC DA 8013 37EX by 302: lab Use Only Analysis and Method poly/plastic, ag amber glass, v Somples recovering thermal preservation must be received on regible day they are sampled or received Received on ice: packed in it e at an ang temp above 0 but less than 6 °C on subsequent days AVG Temp °C Chier de 100.0 Б × AGOUC NM X 20 ედიდე, \bigcirc Lab Use Only 3D TAT AOV Standard the report for the analysis of the above Z S T AW: Remarks EPA Program 2 AMGS × RCRA

Page 12 of 13

Page 194 of 287

Printed: 10/18/2024 8:51:47AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

We receive	no response concerning these items within 24 hours of t	ine date of this noti	ce, an the s	ampies will be une	nyzea as requestea.	
Client:	Mack Energy	Date Received:	10/18/24 (08:00	Work Order ID:	E410176
Phone:	(575) 390-6397	Date Logged In:	10/17/24	14:26	Logged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:		17:00 (1 day TAT)		
1. Does th	Custody (COC) te sample ID match the COC? te number of samples per sampling site location match	tch the COC	Yes Yes			
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	<u>Courier</u>	
	e COC complete, i.e., signatures, dates/times, requestl samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.	1 the field,	No Yes		<u>Comme</u>	nts/Resolution
Sample T	urn Around Time (TAT)				D	
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Project manager and ti	•
Sample C					provided on COC per	client.
	ample cooler received?		Yes			
•	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample C			_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers'	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab	•					
20. Were Sa D	— ield sample labels filled out with the minimum info imple ID? ate/Time Collected? ollectors name?	ormation:	Yes Yes			
	reservation		No			
	the COC or field labels indicate the samples were pr	reserved?	No			
	imple(s) correctly preserved?		NA			
	filteration required and/or requested for dissolved n	netals?	No			
Multipha	se Sample Matrix					
	the sample have more than one phase, i.e., multipha	se?	No			
	does the COC specify which phase(s) is to be analy		NA			
•		,	1421			
	act Laboratory		No			
	imples required to get sent to a subcontract laborato subcontract laboratory specified by the client and it	-	NA	Subcontract Lab	NI A	
		i so who:	11/1	Subcolliact Lat	O, INA	
Client Ir	<u>struction</u>					
						0

Date

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill B

Work Order: E410181

Job Number: 20046-0001

Received: 10/18/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 10/21/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/21/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount Spill B

Workorder: E410181

Date Received: 10/18/2024 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/18/2024 8:00:00AM, under the Project Name: West Mount Spill B.

The analytical test results summarized in this report with the Project Name: West Mount Spill B apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount Spill B	Donoutoda
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/24 17:26

Client Sample ID	Lab Sample ID M	atrix Sampled	Received	Container
SP Comp 17-4'	E410181-01A	Soil 10/16/24	10/18/24	Glass Jar, 2 oz.
SP Comp 18-6'	E410181-02A	Soil 10/16/24	10/18/24	Glass Jar, 2 oz.
SP Comp 19-6'	E410181-03A	Soil 10/16/24	10/18/24	Glass Jar, 2 oz.
SP Comp 20-6'	E410181-04A	Soil 10/16/24	10/18/24	Glass Jar, 2 oz.
SP Comp 21-4'	E410181-05A	Soil 10/16/24	10/18/24	Glass Jar, 2 oz.
SP Comp 22-4'	E410181-06A	Soil 10/16/24	10/18/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:26:14PM

SP Comp 17-4' E410181-01

E410101-01						
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
mg/kg	mg/kg	Analy	vst: BA		Batch: 2442142	
ND	0.0250	1	10/18/24	10/18/24		
ND	0.0250	1	10/18/24	10/18/24		
ND	0.0250	1	10/18/24	10/18/24		
ND	0.0250	1	10/18/24	10/18/24		
ND	0.0500	1	10/18/24	10/18/24		
ND	0.0250	1	10/18/24	10/18/24		
	91.7 %	70-130	10/18/24	10/18/24		
mg/kg	mg/kg	Analy	vst: BA		Batch: 2442142	
ND	20.0	1	10/18/24	10/18/24		
	95.9 %	70-130	10/18/24	10/18/24		
mg/kg	mg/kg	Analy	vst: AF		Batch: 2442144	
ND	25.0	1	10/18/24	10/19/24		
ND	50.0	1	10/18/24	10/19/24		
	101 %	50-200	10/18/24	10/19/24		
mg/kg	mg/kg	Analy	st: DT		Batch: 2442151	
234	20.0	1	10/18/24	10/18/24		
	mg/kg ND Mg/kg ND mg/kg	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 MD 0.0250 MD 20.0250 91.7 % mg/kg mg/kg mg/kg ND 20.0 95.9 % mg/kg MD 25.0 ND 50.0 101 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 91.7 % 70-130 mg/kg mg/kg Analy ND 20.0 1 95.9 % 70-130 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 101 % 50-200 mg/kg mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg Analyst: BA ND 0.0250 1 10/18/24 ND 0.0250 1 10/18/24 ND 0.0250 1 10/18/24 ND 0.0500 1 10/18/24 ND 0.0250 1 10/18/24 ND 0.0250 1 10/18/24 mg/kg mg/kg Analyst: BA ND 20.0 1 10/18/24 mg/kg mg/kg Analyst: AF ND 25.9 % 70-130 10/18/24 mg/kg mg/kg Analyst: AF ND 25.0 1 10/18/24 ND 50.0 1 10/18/24 ND 50.0 1 10/18/24 mg/kg mg/kg Analyst: DT	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: BA ND 0.0250 1 10/18/24 10/18/24 ND 0.0250 1 10/18/24 10/18/24 ND 0.0250 1 10/18/24 10/18/24 ND 0.0500 1 10/18/24 10/18/24 ND 0.0250 1 10/18/24 10/18/24 ND 0.0250 1 10/18/24 10/18/24 Mg/kg mg/kg Analyst: BA ND 20.0 1 10/18/24 10/18/24 Mg/kg mg/kg Analyst: AF ND 25.9 70-130 10/18/24 10/18/24 ND 25.0 1 10/18/24 10/19/24 ND 50.0 1 10/18/24 10/19/24 ND 50.0 1 10/18/24 10/19/24 ND 50.0 1 10/18/24<	

Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:26:14PM

SP Comp 18-6' E410181-02

		1.410101 02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2442142
Benzene	ND	0.0250	1	10/18/24	10/18/24	
Ethylbenzene	ND	0.0250	1	10/18/24	10/18/24	
oluene	ND	0.0250	1	10/18/24	10/18/24	
-Xylene	ND	0.0250	1	10/18/24	10/18/24	
,m-Xylene	ND	0.0500	1	10/18/24	10/18/24	
Total Xylenes	ND	0.0250	1	10/18/24	10/18/24	
Surrogate: 4-Bromochlorobenzene-PID		91.5 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2442142
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/18/24	10/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.4 %	70-130	10/18/24	10/18/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: AF		Batch: 2442144
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/24	10/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/24	10/19/24	
Surrogate: n-Nonane		96.5 %	50-200	10/18/24	10/19/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2442151
Chloride	346	20.0	1	10/18/24	10/18/24	



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:26:14PM

SP Comp 19-6'

E410181-03

Reporting							
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	nalyst: BA		Batch: 2442142	
Benzene	ND	0.0250	1	10/18/24	10/19/24		
Ethylbenzene	ND	0.0250	1	10/18/24	10/19/24		
Toluene	ND	0.0250	1	10/18/24	10/19/24		
o-Xylene	ND	0.0250	1	10/18/24	10/19/24		
p,m-Xylene	ND	0.0500	1	10/18/24	10/19/24		
Total Xylenes	ND	0.0250	1	10/18/24	10/19/24		
Surrogate: 4-Bromochlorobenzene-PID		91.5 %	70-130	10/18/24	10/19/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: BA		Batch: 2442142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/18/24	10/19/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	70-130	10/18/24	10/19/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: AF		Batch: 2442144	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/24	10/19/24		
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/24	10/19/24		
Surrogate: n-Nonane		96.5 %	50-200	10/18/24	10/19/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2442151	
Chloride	85.6	20.0	1	10/18/24	10/18/24		



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:26:14PM

SP Comp 20-6'

E410181-04								
Reporting								
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2442142		
Benzene	ND	0.0250	1	10/18/24	10/19/24			
Ethylbenzene	ND	0.0250	1	10/18/24	10/19/24			
Toluene	ND	0.0250	1	10/18/24	10/19/24			
o-Xylene	ND	0.0250	1	10/18/24	10/19/24			
o,m-Xylene	ND	0.0500	1	10/18/24	10/19/24			
Total Xylenes	ND	0.0250	1	10/18/24	10/19/24			
Surrogate: 4-Bromochlorobenzene-PID		92.3 %	70-130	10/18/24	10/19/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2442142		
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/18/24	10/19/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	70-130	10/18/24	10/19/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: AF		Batch: 2442144		
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/24	10/19/24			
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/24	10/19/24			
Surrogate: n-Nonane		99.2 %	50-200	10/18/24	10/19/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: DT		Batch: 2442151		
Chloride	151	20.0	1	10/18/24	10/18/24			



Sample Data

Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:26:14PM

SP Comp 21-4'

E410181-05								
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: BA		Batch: 2442142		
Benzene	ND	0.0250	1	10/18/24	10/19/24			
Ethylbenzene	ND	0.0250	1	10/18/24	10/19/24			
Toluene	ND	0.0250	1	10/18/24	10/19/24			
o-Xylene	ND	0.0250	1	10/18/24	10/19/24			
p,m-Xylene	ND	0.0500	1	10/18/24	10/19/24			
Total Xylenes	ND	0.0250	1	10/18/24	10/19/24			
Surrogate: 4-Bromochlorobenzene-PID		92.3 %	70-130	10/18/24	10/19/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	llyst: BA		Batch: 2442142		
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/18/24	10/19/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	70-130	10/18/24	10/19/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: AF		Batch: 2442144		
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/24	10/19/24			
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/24	10/19/24			
Surrogate: n-Nonane		100 %	50-200	10/18/24	10/19/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: DT		Batch: 2442151		
Chloride	153	20.0	1	10/18/24	10/18/24			



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:26:14PM

SP Comp 22-4'

E410181-06								
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	llyst: BA		Batch: 2442142		
Benzene	ND	0.0250	1	10/18/24	10/19/24			
Ethylbenzene	ND	0.0250	1	10/18/24	10/19/24			
Toluene	ND	0.0250	1	10/18/24	10/19/24			
o-Xylene	ND	0.0250	1	10/18/24	10/19/24			
o,m-Xylene	ND	0.0500	1	10/18/24	10/19/24			
Total Xylenes	ND	0.0250	1	10/18/24	10/19/24			
Surrogate: 4-Bromochlorobenzene-PID		91.4 %	70-130	10/18/24	10/19/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2442142		
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/18/24	10/19/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.1 %	70-130	10/18/24	10/19/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: AF		Batch: 2442144		
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/24	10/19/24			
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/24	10/19/24			
Surrogate: n-Nonane		98.3 %	50-200	10/18/24	10/19/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: DT		Batch: 2442151		
Chloride	85.0	20.0	1	10/18/24	10/18/24			



West Mount Spill B Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 10/21/2024 5:26:14PM **Volatile Organics by EPA 8021B** Analyst: BA Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2442142-BLK1) Prepared: 10/18/24 Analyzed: 10/18/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.20 8.00 90.1 70-130 LCS (2442142-BS1) Prepared: 10/18/24 Analyzed: 10/18/24 4.35 87.0 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.51 0.0250 5.00 90.1 70-130 4.50 0.0250 5.00 90.0 70-130 Toluene o-Xylene 4.52 0.0250 5.00 90.4 70-130 9.18 10.0 91.8 70-130 0.0500 p.m-Xvlene 91.3 70-130 13.7 15.0 Total Xylenes 0.0250 8.00 90.1 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.21 Matrix Spike (2442142-MS1) Source: E410179-08 Prepared: 10/18/24 Analyzed: 10/18/24 8.82 0.0500 10.0 ND 88.3 54-133 Benzene ND 61-133 Ethylbenzene 9.19 0.0500 10.0 91.9 Toluene 9.17 0.0500 10.0 ND 91.8 61-130 9.20 10.0 ND 92.0 63-131 0.0500 o-Xylene p,m-Xylene 18.7 0.100 20.0 ND 93.5 63-131 0.0500 30.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 14.6 16.0 Matrix Spike Dup (2442142-MSD1) Source: E410179-08 Prepared: 10/18/24 Analyzed: 10/18/24 9.01 0.0500 10.0 ND 90.1 54-133 2.09 61-133 9.37 0.0500 10.0 ND 93.7 1.96 20 Ethylbenzene



9 35

9.41

19.0

28.5

14.5

0.0500

0.0500

0.100

0.0500

10.0

10.0

20.0

30.0

16.0

ND

ND

ND

ND

93.6

94.1

95.3

94.9

90.9

61-130

63-131

63-131

63-131

70-130

1 94

2.27

1.87

2.00

20

20

20

20

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	West Mount Spill B	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:26:14PM

Artesia NM, 88210		Project Manage	r: Na	italie Gladder	1			10/	21/2024 5:26:14PM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2442142-BLK1)							Prepared: 1	0/18/24 Anal	yzed: 10/18/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130			
LCS (2442142-BS2)							Prepared: 1	0/18/24 Anal	yzed: 10/18/24
Gasoline Range Organics (C6-C10)	43.9	20.0	50.0		87.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.11		8.00		101	70-130			
Matrix Spike (2442142-MS2)				Source:	E410179-	08	Prepared: 1	0/18/24 Anal	yzed: 10/18/24
Gasoline Range Organics (C6-C10)	86.9	40.0	100	ND	86.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.3		16.0		95.9	70-130			
Matrix Spike Dup (2442142-MSD2)				Source:	E410179-	08	Prepared: 1	0/18/24 Anal	yzed: 10/18/24
Gasoline Range Organics (C6-C10)	85.6	40.0	100	ND	85.6	70-130	1.53	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.6		16.0		97.5	70-130			



Mack Energy	Project Name:	West Mount Spill B	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/2024 5:26:14PM

Artesia NW, 88210		Project Manager	i. INA	name Gradden	ı			1	0/21/2024 3.20.14F
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: AF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442144-BLK1)							Prepared: 1	0/18/24 An	alyzed: 10/19/24
iesel Range Organics (C10-C28)	ND	25.0							
til Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	51.5		50.0		103	50-200			
CS (2442144-BS1)							Prepared: 1	0/18/24 An	alyzed: 10/19/24
riesel Range Organics (C10-C28)	273	25.0	250		109	38-132			
urrogate: n-Nonane	55.5		50.0		111	50-200			
Matrix Spike (2442144-MS1)				Source:	E410179-0	09	Prepared: 1	0/18/24 An	alyzed: 10/19/24
riesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132			
urrogate: n-Nonane	54.1		50.0		108	50-200			
Matrix Spike Dup (2442144-MSD1)				Source:	E410179-0	09	Prepared: 1	0/18/24 An	alyzed: 10/19/24
riesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132	8.66	20	

Chloride

QC Summary Data

Mack Energy		Project Name:		est Mount Sp	ill B				Reported:
7 W. Compress Road Artesia NM, 88210		Project Number Project Manager		046-0001 atalie Gladder	ı				10/21/2024 5:26:14PM
		Anions	by EPA 3	00.0/9056	4				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2442151-BLK1)							Prepared: 1	0/18/24 Aı	nalyzed: 10/18/24
Chloride	ND	20.0							
LCS (2442151-BS1)							Prepared: 1	0/18/24 Aı	nalyzed: 10/18/24
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2442151-MS1)				Source:	E410179-	03	Prepared: 1	0/18/24 Aı	nalyzed: 10/18/24
Chloride	576	20.0	250	327	99.5	80-120			
Matrix Spike Dup (2442151-MSD1)				Source:	E410179-	03	Prepared: 1	0/18/24 Aı	nalyzed: 10/18/24

250

20.0

80-120

106

2.94

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/21/24 17:26

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information Project: WEST Project Manager Email. City, State, Lip Chent: Mack Report due by Phone Address: Sampled Additional Instructions: date or time of collection is considered fraud and may be grounds for legal action , (field sampler), allest to the validity and authenticity of this sample. Lam aware that (ampening with or intentionally mislate duen Jolis Relinquished by: (Signature) samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the reputs. Note. Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardour samples will be returned to client or disposed of at the ritent expense. 91/01 10/16 Sampled でなる HE-(1-01 Sample ID かり Attention: THERGY STATIFING SERVICES City, State, Zip Address: 2724 NW COUNTY RD 00 NATALIE@ENERGYSTAFFINGLIC COM RRIT FNEY@ENERGYSTAFFINGLIC COM 575 393 9048 110BBS NM 88210 Sampled by Juca Chain of Custody Number らりと l ab E410181 ON 10:18:24 DROVORO BY 8015 GRO/ORC by 8013 STEX by 3021 400 py 8190 2046 · 001 analysis and Method Metals 5010 poly/plastic ag amberglass, v Samples remaining theories preservation must be received on too the day they see same see or packed in ite at an aut temp above 0 but less than 6 °C on subsentient days Received on ice: AVG Temp C Inioride 300.0 5 X AGOUC NM × 20 SGOOK Lab Use Only 30 N T3

T3

T3

To Intereport for the analysis of the above maging: 9/24/2025 Standard XZ S 4 QWA AW Remarks State EPA Program 2 AMGS ¥ RCRA

Page 16 of 17

Page 211 of 287

Printed: 10/18/2024 9:19:46AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

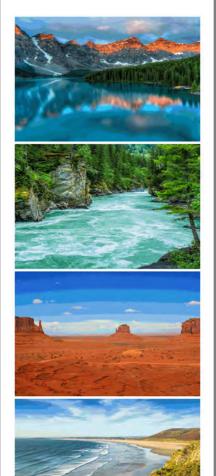
Client:	Mack Energy	Date Received:	10/18/24 (08:00	Work	Order ID:	E410181
Phone:	(575) 390-6397	Date Logged In:	10/17/24	4:47	Logge	d In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:	10/21/24	17:00 (1 day TAT)			
1. Does th 2. Does th	Custody (COC) e sample ID match the COC? e number of samples per sampling site location mat umples dropped off by client or carrier?	ch the COC	Yes Yes Yes	Carrier: <u>C</u>	lourier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	No				
	l samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic		Yes	r		Comment	s/Resolution
	urn Around Time (TAT) COC indicate standard TAT, or Expedited TAT?		Yes		Project manager		-
Sample C	<u>ooler</u>				provided on CO	C per c	lient.
	ample cooler received?		Yes				
8. If yes, v	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes				
Sample C			_				
	ueous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
18. Are no	on-VOC samples collected in the correct containers?	ı	Yes				
19. Is the a	ppropriate volume/weight or number of sample contain	ers collected?	Yes				
	e <u>l</u> field sample labels filled out with the minimum info umple ID?	rmation:	Yes				
	ate/Time Collected?		Yes	l			
C	ollectors name?		No				
	<u>reservation</u>						
	the COC or field labels indicate the samples were pr	eserved?	No				
	mple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
	se Sample Matrix						
	he sample have more than one phase, i.e., multiphas		No				
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA				
28. Are sa	act Laboratory mples required to get sent to a subcontract laborator subcontract laboratory specified by the client and if	•	No NA	Subcontract Lab	: NA		
<u>Clien</u> t In	struction_						
	ure of client authorizing changes to the COC or sample disp				Date		envirotech Inc.

Signature of client authorizing changes to the COC or sample disposition.

Released to Imaging: 9/24/2025 11:11:00 AM

Report to:

Natalie Gladden



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill B

Work Order: E410224

Job Number: 20046-0001

Received: 10/21/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/22/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/22/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount Spill B

Workorder: E410224

Date Received: 10/21/2024 7:15:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/21/2024 7:15:00AM, under the Project Name: West Mount Spill B.

The analytical test results summarized in this report with the Project Name: West Mount Spill B apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Sample Summary

Mack Energy	Project Name:	West Mount Spill B	Reported:
7 W. Compress Road	Project Number:	20046-0001	Keporteu:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/22/24 14:43

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW Comp 3 - 6'	E410224-01A	Soil	10/17/24	10/21/24	Glass Jar, 2 oz.
SW Comp 4 - 12'	E410224-02A	Soil	10/17/24	10/21/24	Glass Jar, 2 oz.
SW Comp 5 - 4'	E410224-03A	Soil	10/17/24	10/21/24	Glass Jar, 2 oz.
SW Comp 6 - 6'	E410224-04A	Soil	10/17/24	10/21/24	Glass Jar, 2 oz.
SW Comp 7 - 4'	E410224-05A	Soil	10/17/24	10/21/24	Glass Jar, 2 oz.
SW Comp 8 - 6'	E410224-06A	Soil	10/17/24	10/21/24	Glass Jar, 2 oz.
SW Comp 9 - 12'	E410224-07A	Soil	10/17/24	10/21/24	Glass Jar, 2 oz.
SW Comp 10 - 6'	E410224-08A	Soil	10/17/24	10/21/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/22/2024 2:43:06PM

SW Comp 3 - 6' E410224-01

		E-11022-1-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG			Batch: 2443002
Benzene	ND	0.0250	1	10/21/24	10/21/24	
Ethylbenzene	ND	0.0250	1	10/21/24	10/21/24	
Toluene	ND	0.0250	1	10/21/24	10/21/24	
o-Xylene	ND	0.0250	1	10/21/24	10/21/24	
p,m-Xylene	ND	0.0500	1	10/21/24	10/21/24	
Total Xylenes	ND	0.0250	1	10/21/24	10/21/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/21/24	10/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG			Batch: 2443002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/21/24	10/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	10/21/24	10/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2443009
Diesel Range Organics (C10-C28)	ND	25.0	1	10/21/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/21/24	10/22/24	
Surrogate: n-Nonane		114 %	50-200	10/21/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2443005
Chloride	ND	20.0	1	10/21/24	10/21/24	



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/22/2024 2:43:06PM

SW Comp 4 - 12'

E410224-02

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: CG		Batch: 2443002
Benzene	ND	0.0250	1	10/21/24	10/21/24	
Ethylbenzene	ND	0.0250	1	10/21/24	10/21/24	
Toluene	ND	0.0250	1	10/21/24	10/21/24	
o-Xylene	ND	0.0250	1	10/21/24	10/21/24	
p,m-Xylene	ND	0.0500	1	10/21/24	10/21/24	
Total Xylenes	ND	0.0250	1	10/21/24	10/21/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/21/24	10/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: CG		Batch: 2443002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/21/24	10/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	10/21/24	10/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2443009
Diesel Range Organics (C10-C28)	ND	25.0	1	10/21/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/21/24	10/22/24	
Surrogate: n-Nonane		117 %	50-200	10/21/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: IY		Batch: 2443005
Chloride	92.8	20.0	1	10/21/24	10/21/24	



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/22/2024 2:43:06PM

SW Comp 5 - 4'

		E410224-03						
Reporting								
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: CG		Batch: 2443002		
Benzene	ND	0.0250	1	10/21/24	10/21/24			
Ethylbenzene	ND	0.0250	1	10/21/24	10/21/24			
Toluene	ND	0.0250	1	10/21/24	10/21/24			
o-Xylene	ND	0.0250	1	10/21/24	10/21/24			
p,m-Xylene	ND	0.0500	1	10/21/24	10/21/24			
Total Xylenes	ND	0.0250	1	10/21/24	10/21/24			
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/21/24	10/21/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: CG		Batch: 2443002		
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/21/24	10/21/24			
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.4 %	70-130	10/21/24	10/21/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: NV		Batch: 2443009		
Diesel Range Organics (C10-C28)	ND	25.0	1	10/21/24	10/22/24			
Oil Range Organics (C28-C36)	ND	50.0	1	10/21/24	10/22/24			
Surrogate: n-Nonane		111 %	50-200	10/21/24	10/22/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: IY		Batch: 2443005		
Chloride	142	20.0	1	10/21/24	10/21/24			



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/22/2024 2:43:06PM

SW Comp 6 - 6'

E410224-04						
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: CG		Batch: 2443002
Benzene	ND	0.0250	1	10/21/24	10/21/24	
Ethylbenzene	ND	0.0250	1	10/21/24	10/21/24	
Toluene	ND	0.0250	1	10/21/24	10/21/24	
o-Xylene	ND	0.0250	1	10/21/24	10/21/24	
p,m-Xylene	ND	0.0500	1	10/21/24	10/21/24	
Total Xylenes	ND	0.0250	1	10/21/24	10/21/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/21/24	10/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: CG		Batch: 2443002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/21/24	10/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	10/21/24	10/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2443009
Diesel Range Organics (C10-C28)	ND	25.0	1	10/21/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/21/24	10/22/24	
Surrogate: n-Nonane		110 %	50-200	10/21/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2443005
Chloride	151	20.0	1	10/21/24	10/21/24	



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/22/2024 2:43:06PM

SW Comp 7 - 4'

E410224-05							
Reporting							
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: CG		Batch: 2443002	
Benzene	ND	0.0250	1	10/21/24	10/21/24		
Ethylbenzene	ND	0.0250	1	10/21/24	10/21/24		
Toluene	ND	0.0250	1	10/21/24	10/21/24		
o-Xylene	ND	0.0250	1	10/21/24	10/21/24		
o,m-Xylene	ND	0.0500	1	10/21/24	10/21/24		
Total Xylenes	ND	0.0250	1	10/21/24	10/21/24		
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/21/24	10/21/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: CG		Batch: 2443002	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/21/24	10/21/24		
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.7 %	70-130	10/21/24	10/21/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: NV		Batch: 2443009	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/21/24	10/22/24		
Oil Range Organics (C28-C36)	ND	50.0	1	10/21/24	10/22/24		
Surrogate: n-Nonane		110 %	50-200	10/21/24	10/22/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: IY		Batch: 2443005	
Chloride	361	20.0	1	10/21/24	10/21/24		



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/22/2024 2:43:06PM

SW Comp 8 - 6'

		E410224-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: CG		Batch: 2443002
Benzene	ND	0.0250	1	10/21/24	10/21/24	
Ethylbenzene	ND	0.0250	1	10/21/24	10/21/24	
Toluene	ND	0.0250	1	10/21/24	10/21/24	
o-Xylene	ND	0.0250	1	10/21/24	10/21/24	
p,m-Xylene	ND	0.0500	1	10/21/24	10/21/24	
Total Xylenes	ND	0.0250	1	10/21/24	10/21/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/21/24	10/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: CG		Batch: 2443002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/21/24	10/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	10/21/24	10/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2443009
Diesel Range Organics (C10-C28)	ND	25.0	1	10/21/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/21/24	10/22/24	
Surrogate: n-Nonane		123 %	50-200	10/21/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2443005
Chloride	21.5	20.0	1	10/21/24	10/21/24	



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/22/2024 2:43:06PM

SW Comp 9 - 12'

E410224-07

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2443002
Benzene	ND	0.0250	1	10/21/24	10/21/24	
Ethylbenzene	ND	0.0250	1	10/21/24	10/21/24	
Toluene	ND	0.0250	1	10/21/24	10/21/24	
o-Xylene	ND	0.0250	1	10/21/24	10/21/24	
p,m-Xylene	ND	0.0500	1	10/21/24	10/21/24	
Total Xylenes	ND	0.0250	1	10/21/24	10/21/24	
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/21/24	10/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: CG		Batch: 2443002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/21/24	10/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	10/21/24	10/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: NV		Batch: 2443009
Diesel Range Organics (C10-C28)	ND	25.0	1	10/21/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/21/24	10/22/24	
Surrogate: n-Nonane		113 %	50-200	10/21/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2443005
Chloride	33.3	20.0	1	10/21/24	10/21/24	



Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/22/2024 2:43:06PM

SW Comp 10 - 6'

E410224-08

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: CG		Batch: 2443002
Benzene	ND	0.0250	1	10/21/24	10/21/24	
Ethylbenzene	ND	0.0250	1	10/21/24	10/21/24	
Toluene	ND	0.0250	1	10/21/24	10/21/24	
o-Xylene	ND	0.0250	1	10/21/24	10/21/24	
p,m-Xylene	ND	0.0500	1	10/21/24	10/21/24	
Total Xylenes	ND	0.0250	1	10/21/24	10/21/24	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	10/21/24	10/21/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: CG		Batch: 2443002
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/21/24	10/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.1 %	70-130	10/21/24	10/21/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2443009
Diesel Range Organics (C10-C28)	ND	25.0	1	10/21/24	10/22/24	
Oil Range Organics (C28-C36)	ND	50.0	1	10/21/24	10/22/24	
Surrogate: n-Nonane		110 %	50-200	10/21/24	10/22/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2443005
					10/21/24	



West Mount Spill B Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 10/22/2024 2:43:06PM **Volatile Organics by EPA 8021B** Analyst: CG Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2443002-BLK1) Prepared: 10/21/24 Analyzed: 10/21/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.03 8.00 100 70-130 LCS (2443002-BS1) Prepared: 10/21/24 Analyzed: 10/21/24 4.99 99.9 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.88 0.0250 5.00 97.5 70-130 4.95 0.0250 5.00 99.0 70-130 Toluene 97.6 o-Xylene 4.88 0.0250 5.00 70-130 9.95 10.0 99.5 70-130 0.0500 p.m-Xvlene 98.9 70-130 14.8 15.0 Total Xylenes 0.0250 8.00 101 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.07 Matrix Spike (2443002-MS1) Source: E410226-07 Prepared: 10/21/24 Analyzed: 10/21/24 5.83 0.0250 5.00 ND 117 54-133 Benzene ND 61-133 Ethylbenzene 5.67 0.0250 5.00 113 Toluene 5.78 0.0250 5.00 ND 116 61-130 ND 114 63-131 5.68 5.00 0.0250 o-Xylene p,m-Xylene 11.5 0.0500 10.0 ND 115 63-131 17.2 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.94 8.00 Matrix Spike Dup (2443002-MSD1) Source: E410226-07 Prepared: 10/21/24 Analyzed: 10/21/24 4.89 0.0250 5.00 ND 97.9 54-133 17.5 61-133 17.2 4.78 0.0250 5.00 ND 95.5 20 Ethylbenzene Toluene 4 86 0.0250 5.00 ND 97.1 61-130 17.3 20 4.78 5.00 ND 95.6 63-131 17.2 20 o-Xylene 0.0250 97.4

10.0

15.0

8.00

0.0500

0.0250

ND

ND

96.8

100

63-131

63-131

70-130

17.0

17.0

20

20



p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

9.74

14.5

8.04

Mack Energy	Project Name:	West Mount Spill B	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/22/2024 2:43:06PM

Artesia NM, 88210		Project Manager	r: Na	ntalie Gladder	1			10/	22/2024 2:43:06PM			
Nonhalogenated Organics by EPA 8015D - GRO Analyst: CG												
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes			
Blank (2443002-BLK1)							Prepared: 1	0/21/24 Ana	lyzed: 10/21/24			
Gasoline Range Organics (C6-C10)	ND	20.0										
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.11		8.00		88.9	70-130						
LCS (2443002-BS2)							Prepared: 1	0/21/24 Ana	lyzed: 10/21/24			
Gasoline Range Organics (C6-C10)	42.8	20.0	50.0		85.6	70-130						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.2	70-130						
Matrix Spike (2443002-MS2)				Source:	E410226-	07	Prepared: 1	0/21/24 Ana	lyzed: 10/21/24			
Gasoline Range Organics (C6-C10)	43.2	20.0	50.0	ND	86.4	70-130						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.21		8.00		90.1	70-130						
Matrix Spike Dup (2443002-MSD2)				Source:	E410226-0	07	Prepared: 1	0/21/24 Ana	lyzed: 10/21/24			
Gasoline Range Organics (C6-C10)	38.8	20.0	50.0	ND	77.5	70-130	10.9	20				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130						

Mack Energy	Project Name:	West Mount Spill B	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/22/2024 2:43:06PM

Artesia NM, 88210		Project Manager	r: Na	ıtalie Gladder	1			1	0/22/2024 2:43:06P
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2443009-BLK1)							Prepared: 1	0/21/24 An	alyzed: 10/22/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	55.6		50.0		111	50-200			
LCS (2443009-BS1)							Prepared: 1	0/21/24 An	alyzed: 10/22/24
Diesel Range Organics (C10-C28)	274	25.0	250		109	38-132			
urrogate: n-Nonane	54.9		50.0		110	50-200			
Matrix Spike (2443009-MS1)				Source:	E410224-	07	Prepared: 1	0/21/24 An	alyzed: 10/22/24
Diesel Range Organics (C10-C28)	289	25.0	250	ND	116	38-132			
urrogate: n-Nonane	56.1		50.0		112	50-200			
Matrix Spike Dup (2443009-MSD1)				Source:	E410224-	07	Prepared: 1	0/21/24 An	alyzed: 10/22/24
Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132	2.06	20	
Gurrogate: n-Nonane	57.8		50.0		116	50-200			



Mack Energy		Project Name:		est Mount Sp	ill B				Reported:
7 W. Compress Road		Project Number:		0046-0001					
Artesia NM, 88210		Project Manager	: N	atalie Gladdei	n			1	10/22/2024 2:43:06PM
		Anions	by EPA 3	00.0/9056 <i>A</i>	4				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2443005-BLK1)							Prepared: 1	10/21/24 Aı	nalyzed: 10/21/24
Chloride	ND	20.0							
LCS (2443005-BS1)							Prepared: 1	10/21/24 Aı	nalyzed: 10/21/24
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2443005-MS1)				Source:	E410224-	04	Prepared: 1	10/21/24 Aı	nalyzed: 10/21/24
Chloride	422	20.0	250	151	108	80-120			
Matrix Spike Dup (2443005-MSD1)				Source:	E410224-	04	Prepared: 1	10/21/24 Aı	nalyzed: 10/21/24
Chloride	411	20.0	250	151	104	80-120	2.59	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/22/24 14:43

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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Note Note	Samples are	discarde	d 30 days af	ter results ar	e reported	inless of	er arrangen th this COC	The liability of the	laporatory is ji	muted	to the	amou	iuj baic	i tor i	on the report.				Ci co us must a		A A
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Page 230 of 287

Printed: 10/21/2024 7:52:51AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

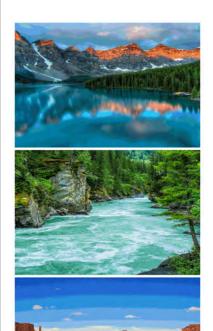
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

	Mode Engage	D . D . 1	10/01/04 05		W.10.1 P.	T440004
Client:	-	Date Received:	10/21/24 07		Work Order ID:	E410224
Phone:		Date Logged In:	10/18/24 15		Logged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:	10/22/24 17	7:00 (1 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location mate	h the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: C	Courier	
4. Was the	e COC complete, i.e., signatures, dates/times, requeste	ed analyses?	No			
5. Were a	Il samples received within holding time?	·	Yes			
	Note: Analysis, such as pH which should be conducted in t				Comment	s/Resolution
6 17	i.e, 15 minute hold time, are not included in this disucssion	•		ı	Comment	SACSOLUTION
	urn Around Time (TAT)		Vos		Project manager and tin	ne sampled not
	COC indicate standard TAT, or Expedited TAT?		Yes			•
Sample C			37		provided on COC per cl	nent.
	sample cooler received? was cooler received in good condition?		Yes			
• /	S .		Yes			
	e sample(s) received intact, i.e., not broken?		Yes			
	custody/security seals present?		No			
•	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are minutes of sampling	received w/i 15	Yes			
13. If no	visible ice, record the temperature. Actual sample t	emperature: 4°C	<u> </u>			
Sample C						
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample contained	rs collected?	Yes			
Field Lat						
	field sample labels filled out with the minimum infor	mation:	Yes			
	ample ID? ate/Time Collected?		Yes	l		
	ollectors name?		No			
Sample P	reservation_		110			
	the COC or field labels indicate the samples were pre	served?	No			
22. Are sa	ample(s) correctly preserved?		NA			
	filteration required and/or requested for dissolved me	tals?	No			
Multipha	se Sample Matrix					
	the sample have more than one phase, i.e., multiphase	?	No			
	, does the COC specify which phase(s) is to be analyz		NA			
	act Laboratory					
	act Laboratory amples required to get sent to a subcontract laboratory	,9	No			
	subcontract laboratory specified by the client and if s			Subcontract Lab	o: NA	
Client Ir	<u>istruction</u>					
						

Date

Report to:

Natalie Gladden





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount B

Work Order: E410331

Job Number: 20046-0001

Received: 10/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/29/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/29/24

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount B

Workorder: E410331

Date Received: 10/28/2024 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/28/2024 7:30:00AM, under the Project Name: West Mount B.

The analytical test results summarized in this report with the Project Name: West Mount B apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

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Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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QC - Anions by EPA 300.0/9056A	9
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Chain of Custody etc.	11

Sample Summary

Γ	Mack Energy	Project Name:	Donoutoda	
ı	7 W. Compress Road	Project Number:	20046-0001	Reported:
l	Artesia NM, 88210	Project Manager:	Natalie Gladden	10/29/24 16:51

Client Sample ID	Lab Sample ID Ma	trix Sa	ampled 1	Received C	Container
SP Comp 8-8'	E410331-01A So	oil 1	0/24/24	10/28/24	Glass Jar, 2 oz.



Mack Energy	Project Name:	West Mount B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/29/2024 4:51:07PM

SP Comp 8-8' E410331-01

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2443219
Benzene	ND	0.0250	1		10/26/24	10/29/24	
Ethylbenzene	ND	0.0250	1		10/26/24	10/29/24	
Toluene	ND	0.0250	1		10/26/24	10/29/24	
o-Xylene	ND	0.0250	1	l	10/26/24	10/29/24	
p,m-Xylene	ND	0.0500	1	l	10/26/24	10/29/24	
Total Xylenes	ND	0.0250	1	ļ	10/26/24	10/29/24	
Surrogate: Bromofluorobenzene		116 %	70-130		10/26/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		10/26/24	10/29/24	
Surrogate: Toluene-d8		110 %	70-130		10/26/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2443219
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	10/26/24	10/29/24	
Surrogate: Bromofluorobenzene		116 %	70-130		10/26/24	10/29/24	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130		10/26/24	10/29/24	
Surrogate: Toluene-d8		110 %	70-130		10/26/24	10/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2443224
Diesel Range Organics (C10-C28)	ND	25.0	1		10/26/24	10/27/24	_
Oil Range Organics (C28-C36)	ND	50.0	1		10/26/24	10/27/24	
Surrogate: n-Nonane		114 %	50-200		10/26/24	10/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2444006
Chloride	346	20.0	1		10/27/24	10/28/24	



Mack EnergyProject Name:West Mount BReported:7 W. Compress RoadProject Number:20046-0001Artesia NM, 88210Project Manager:Natalie Gladden10/29/2024 4:51:07PM

Result Limit Level Result Res	Artesia NM, 88210		Project Manager:	N	atalie Gladden				10	/29/2024 4:51:07PM
Result Limit Level Result Result Rec Limits RPD Limit Notes		,	Volatile Organic	Compo	unds by EPA	A 82601	В			Analyst: IY
Sank (2443219-BLK1)	Analyte	Result				Rec		RPD		
ND		mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
thylbenzene ND 0.0250	Blank (2443219-BLK1)							Prepared: 10	0/26/24 Ana	lyzed: 10/29/24
ND	Benzene		0.0250							
ND 0.0250 ND 0.0500	Ethylbenzene		0.0250							
ND 0.0500 ND 0.0250	Toluene									
ND 0.0250	o-Xylene									
116 70-130 117 70-130 118 70-130 119 70-130 119 70-130 119 70-130 119 70-130 119 70-130 119	p,m-Xylene									
1.2. 1.2.	•		0.0250							
Prepared: 10/26/24 Analyzed: 10/29/24 Analyze	Surrogate: Bromofluorobenzene	0.578								
Prepared: 10/26/24 Analyzed: 10/29/24 Analyze	Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Senzene 2.53 0.0250 2.50 101 70-130 1	Surrogate: Toluene-d8	0.553		0.500		111	70-130			
Analyzed: 10/29/24 Analyze	LCS (2443219-BS1)							Prepared: 10	0/26/24 Ana	lyzed: 10/29/24
Solume 2.55 0.0250 2.50 102 70-130 102 70-130 103 103 104 103 104 103 104 103 104 103 104 103 104 103 104 103 104 103 104 103 104 10	Benzene	2.53	0.0250	2.50		101	70-130			
2.66	Ethylbenzene	2.53	0.0250	2.50		101	70-130			
Solid Xylenes Solid Xylenes Solid Xylenes Tologate: Bromofluorobenzene Solid Xylenes Tologate: T	Toluene	2.55	0.0250	2.50		102	70-130			
Total Xylenes Total Xylene Total Xylenes Total Xylenes	o-Xylene	2.66	0.0250	2.50		106	70-130			
119 70-130 119 70-130 119 10-130 119	p,m-Xylene		0.0500							
CCS Dup (2443219-BSD1) Prepared: 10/26/24 Analyzed: 10/29/24	Total Xylenes	7.99	0.0250	7.50		107	70-130			
CCS Dup (2443219-BSD1) Prepared: 10/26/24 Analyzed: 10/29/24	Surrogate: Bromofluorobenzene	0.593		0.500		119	70-130			
Prepared: 10/26/24 Analyzed: 10/29/24	Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130			
2.54 0.0250 2.50 102 70-130 0.691 23	Surrogate: Toluene-d8	0.555		0.500		111	70-130			
thylbenzene 2.56 0.0250 2.50 103 70-130 1.45 27 foluene 2.59 0.0250 2.50 104 70-130 1.79 24 -Xylene 2.69 0.0250 2.50 108 70-130 1.46 27 ,m-Xylene 5.37 0.0500 5.00 107 70-130 0.617 27 otal Xylenes 8.06 0.0250 7.50 108 70-130 0.897 27 uurogate: Bromofluorobenzene 0.596 0.500 119 70-130	LCS Dup (2443219-BSD1)							Prepared: 10	0/26/24 Ana	lyzed: 10/29/24
thylbenzene 2.56 0.0250 2.50 103 70-130 1.45 27 foluene 2.59 0.0250 2.50 104 70-130 1.79 24 -Xylene 2.69 0.0250 2.50 108 70-130 1.46 27 ,m-Xylene 5.37 0.0500 5.00 107 70-130 0.617 27 otal Xylenes 8.06 0.0250 7.50 108 70-130 0.897 27 uurogate: Bromofluorobenzene 0.596 0.500 119 70-130 70-130	Benzene	2.54	0.0250	2.50		102	70-130	0.691	23	
volume 2.59 0.0250 2.50 104 70-130 1.79 24 -Xylene 2.69 0.0250 2.50 108 70-130 1.46 27 ,m-Xylene 5.37 0.0500 5.00 107 70-130 0.617 27 otal Xylenes 8.06 0.0250 7.50 108 70-130 0.897 27 uurogate: Bromofluorobenzene 0.596 0.500 119 70-130	Ethylbenzene	2.56		2.50		103	70-130	1.45	27	
m-Xylene 5.37 0.0500 5.00 107 70-130 0.617 27 otal Xylenes 8.06 0.0250 7.50 108 70-130 0.897 27 currogate: Bromofluorobenzene 0.596 0.500 119 70-130	Toluene	2.59	0.0250	2.50		104	70-130	1.79	24	
votal Xylenes 8.06 0.0250 7.50 108 70-130 0.897 27 uurrogate: Bromofluorobenzene 0.596 0.500 119 70-130 70-130	o-Xylene	2.69	0.0250	2.50		108	70-130	1.46	27	
urrogate: Bromofluorobenzene 0.596 0.500 119 70-130	p,m-Xylene	5.37	0.0500	5.00		107	70-130	0.617	27	
****	Total Xylenes	8.06	0.0250	7.50		108	70-130	0.897	27	
urrogate: 1,2-Dichloroethane-d4 0.473 0.500 94.6 70-130	Surrogate: Bromofluorobenzene	0.596		0.500		119	70-130			
	Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			

0.500

70-130



Surrogate: Toluene-d8

0.555

Mack EnergyProject Name:West Mount BReported:7 W. Compress RoadProject Number:20046-0001Artesia NM, 88210Project Manager:Natalie Gladden10/29/2024 4:51:07PM

Nonhalogenated	Organics	by EPA	8015D -	GRO

Anal	

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Blank (2443219-BLK1)						Prepared: 10	/26/24 Ana	lyzed: 10/29/24
Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.578		0.500	116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500	93.0	70-130			
Surrogate: Toluene-d8	0.553		0.500	111	70-130			
LCS (2443219-BS2)						Prepared: 10	/26/24 Ana	alyzed: 10/29/24
Gasoline Range Organics (C6-C10)	43.9	20.0	50.0	87.9	70-130			
Surrogate: Bromofluorobenzene	0.588		0.500	118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500	96.4	70-130			
Surrogate: Toluene-d8	0.567		0.500	113	70-130			
LCS Dup (2443219-BSD2)						Prepared: 10	/26/24 Ana	alyzed: 10/29/24
Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	85.1	70-130	3.25	20	
Surrogate: Bromofluorobenzene	0.599		0.500	120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500	95.9	70-130			
Surrogate: Toluene-d8	0.573		0.500	115	70-130			



Mack Energy	Project Name:	West Mount B	Reported:
7 W. Compress Road	Project Number:	20046-0001	-
Artesia NM, 88210	Project Manager:	Natalie Gladden	10/29/2024 4:51:07PM

Artesia NM, 88210		Project Manage	r: Na	atalie Gladder	1			10/	29/2024 4:51:07PM
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2443224-BLK1)							Prepared: 1	0/26/24 Ana	yzed: 10/27/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.8		50.0		112	50-200			
LCS (2443224-BS1)							Prepared: 1	0/26/24 Anai	lyzed: 10/27/24
Diesel Range Organics (C10-C28)	298	25.0	250		119	38-132			
Surrogate: n-Nonane	58.0		50.0		116	50-200			
LCS Dup (2443224-BSD1)							Prepared: 1	0/26/24 Ana	lyzed: 10/27/24
Diesel Range Organics (C10-C28)	289	25.0	250		116	38-132	3.00	20	
Surrogate: n-Nonane	58 3		50.0		117	50-200			

LCS Dup (2444006-BSD1)

Chloride

251

Prepared: 10/27/24 Analyzed: 10/27/24

20

QC Summary Data

Mack Energy 7 W. Compress Road		Project Name: Project Number	: 20	Yest Mount B 10046-0001					Reported:
Artesia NM, 88210		Project Manager	r: N	atalie Gladden	1			10	0/29/2024 4:51:07PM
		Anions	by EPA 3	800.0/9056 <i>A</i>	4				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2444006-BLK1)]	Prepared: 1	0/27/24 Ana	alyzed: 10/27/24
Chloride	ND	20.0							
LCS (2444006-BS1)]	Prepared: 1	0/27/24 Ana	alyzed: 10/27/24
Chloride	252	20.0	250		101	90-110			

250

20.0

101

90-110

0.0449

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

	Mack Energy	Project Name:	West Mount B	
١	7 W. Compress Road	Project Number:	20046-0001	Reported:
١	Artesia NM, 88210	Project Manager:	Natalie Gladden	10/29/24 16:51

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information

Chain of Custody

Page	/ of /
rage	01 /

Client: Mack Energy	Attention: ENERGY STAFFING SERVICES Address: 2724 NW COUNTY RD		Lab Use Only					TAT				EPA Program			
Project: West Mount B			Lab	10331		1	Job Number ZOO-(6.000) Analysis and Method		1D	2D	3D	Standard	CWA	SDWA RCRA	
Project Manager:Address:	City, State, Zip HOBBS, NM 88240		E	710221											
City, State, Zip	Phone: 575-393-9048						Analys	313 6110	Tweethoo						NCM
Phone:	Email: NATALIE@ENERGYSTAFFINGLLC.COM BRITTNEY@ENERGYSTAFFINGLLC.COM		15	15						5				State	
Email:			y 80	y 80	5	0		0.0					NM ÇO	UT AZ	TX
Report due by:			RO b	RO b	/ 802	826	6010	e 30(Z	×				
Time Date Sampled Sampled Matrix No. of Containers Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		верос	BGDOC			Remarks	
10/24 5 1 Sp. Com	o. 8-8'									/					
		5.0													
													7		
								Ħ							
Additional Instructions:		Les 11													
I, (field sampler), attest to the validity and authenticity of this sample. I date or time of collection is considered fraud and may be grounds for le	am aware that tampering with or intentionally mislabelling all action.	The sample	location	on,									ived on ice the day C on subsequent da	Acres and	ed or received
Relinguished by: (Stenature) Date 10/24/24 Time	Received by (Signature)	Date 7 :25	.24	1/2	15	0	Recei	ived (on ice:	Li	ab U	se Only	1	El B	9 7
Reliniquished by: (Signature) Date 2524 me	15 peceived of Gignature	Date 10.78.7	4	Time	30		T1	IVCU (Jii icc.	T2	, "		Т3		
Relimpuished by: (Signature) Date 10-25-24 Time Received by: (Signature)				AVG Temp°C											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		Container	Туре	:g-p	glass,	p - po	oly/pla	stic, a	g - ambe	r glas	ss, v -	VOA			
Note: Samples are discarded 30 days after results are reported samples is applicable only to those samples received by the laborate in the control of the co	unless other arrangements are made. Hazardous soratory with this COC. The liability of the laboratory	amples will b	e ret	urned	to cli	ent or	dispos	ed of a	at the clie	nt exp	ense.	The re	port for the ana	lysis of the	above



Printed: 10/28/2024 12:12:18PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Mack Energy	Date Received:	10/28/24 0	7:30		Work Order ID:	E410331
Phone:	(575) 390-6397	Date Logged In:	10/25/24 1:	5:21		Logged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:	10/29/24 1	7:00 (1 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	No				
5. Were a	Il samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion.					Comments	s/Resolution
	<u> Curn Around Time (TAT)</u>				D		
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes		I =	=	ne sampled not
Sample C					provided o	n COC.	
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	, were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
Sample C		temperature. 1	<u>~</u>				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers')	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	· · · · · · · · · · · · · · · · · · ·	iers conceicu.	105				
•	field sample labels filled out with the minimum info	rmation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes				
C	ollectors name?		No				
	<u>reservation</u>						
	the COC or field labels indicate the samples were pr	eserved?	No				
	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborator	ry?	No				
29. Was a	subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab	o: NA		
Client Ir	nstruction						

Date

MACK ENERGY: WEST MOUNT SPILL B REMEDIATION AND FINAL PHOTOS













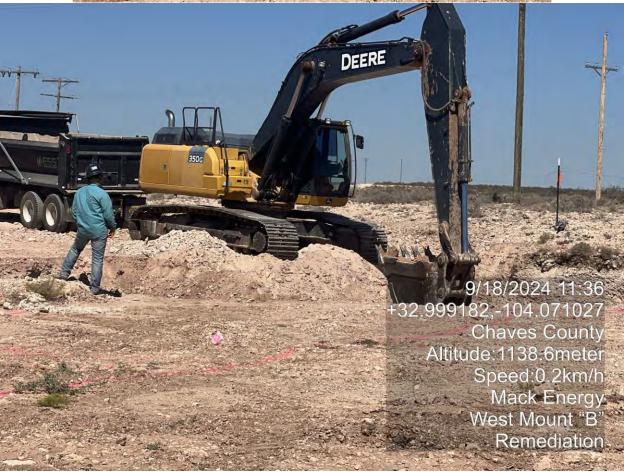


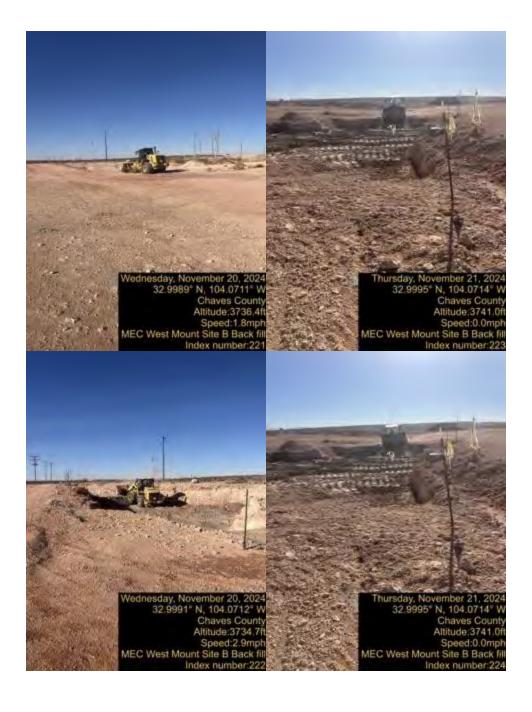




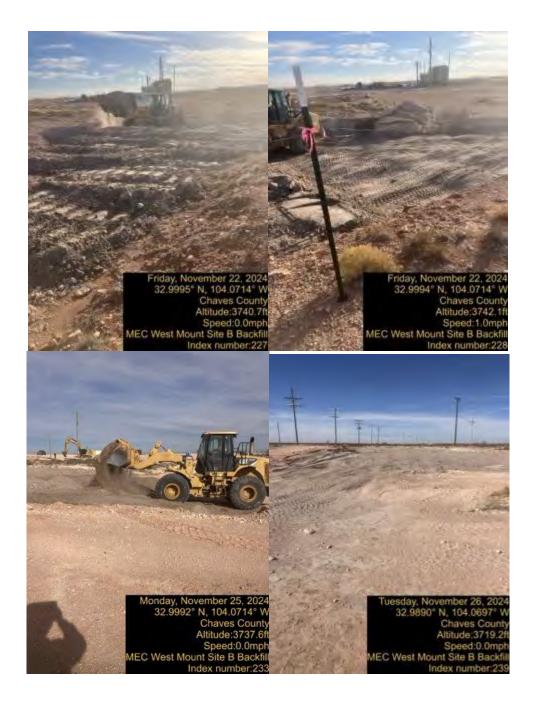


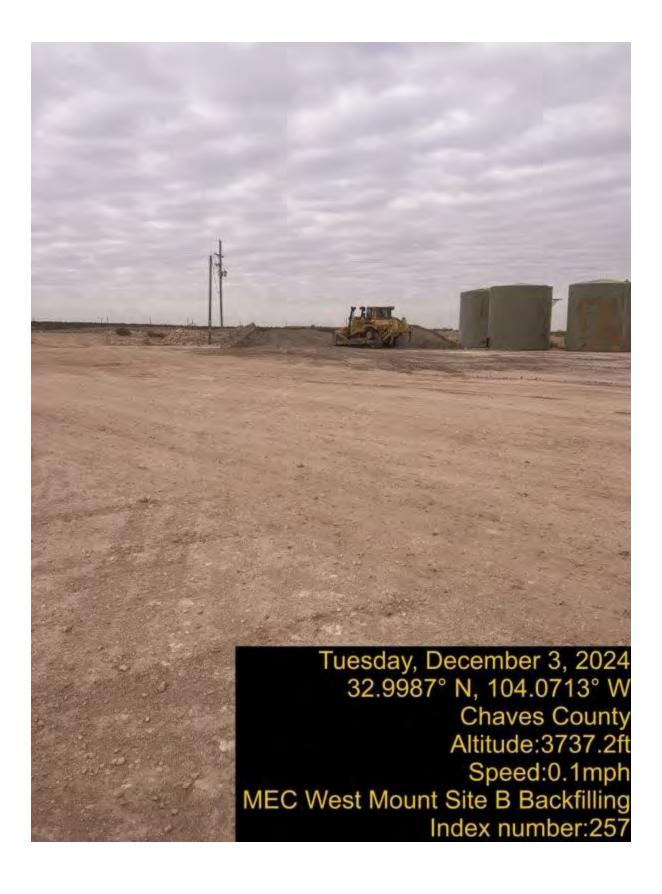


















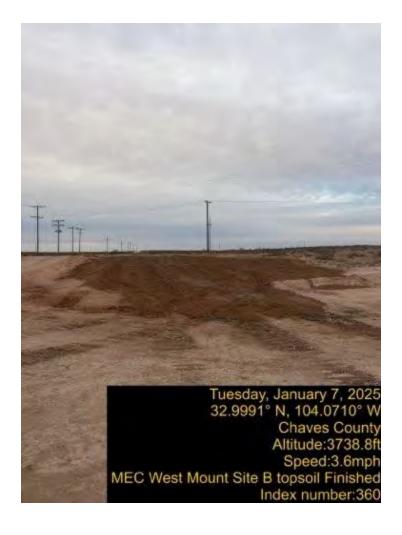


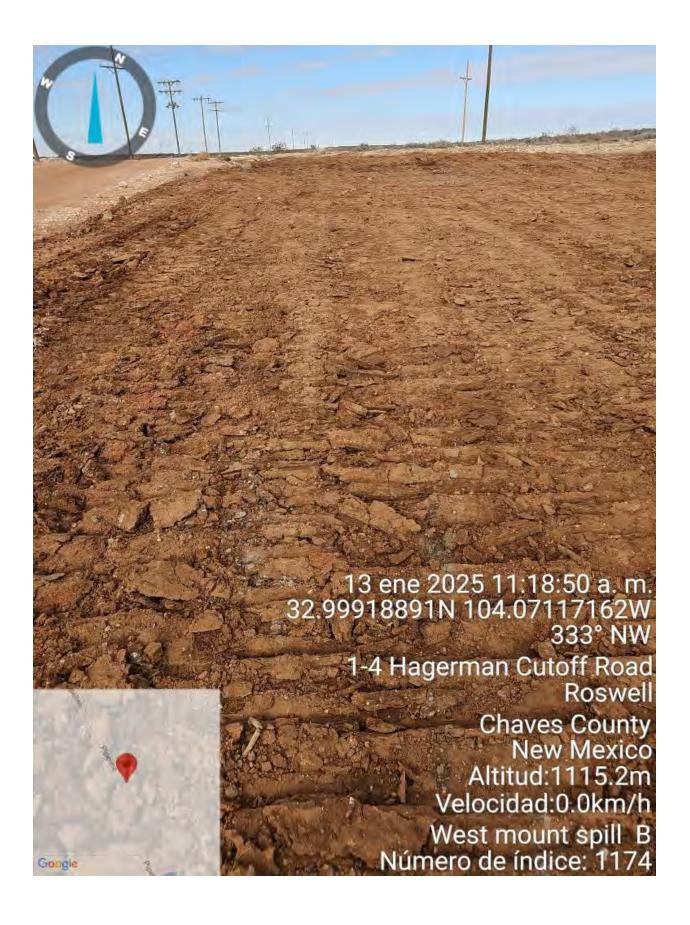


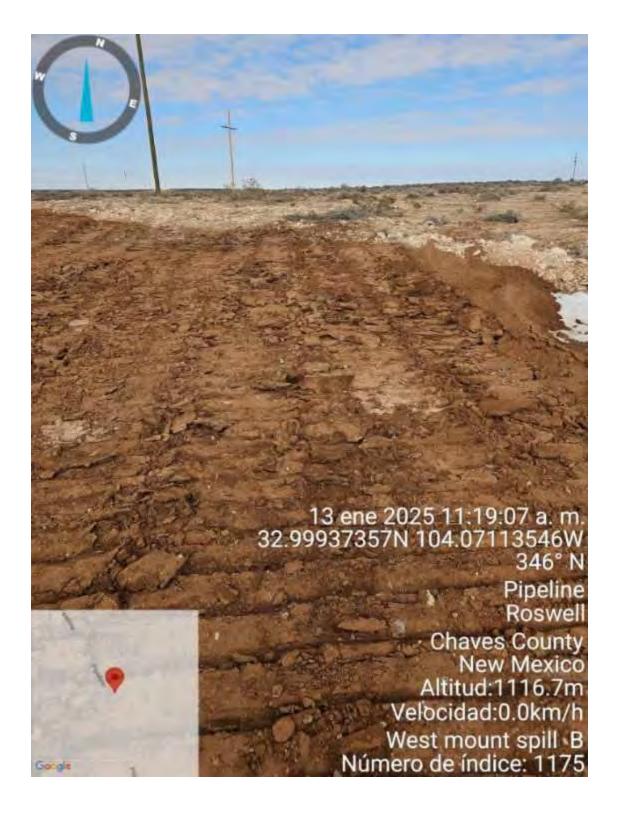


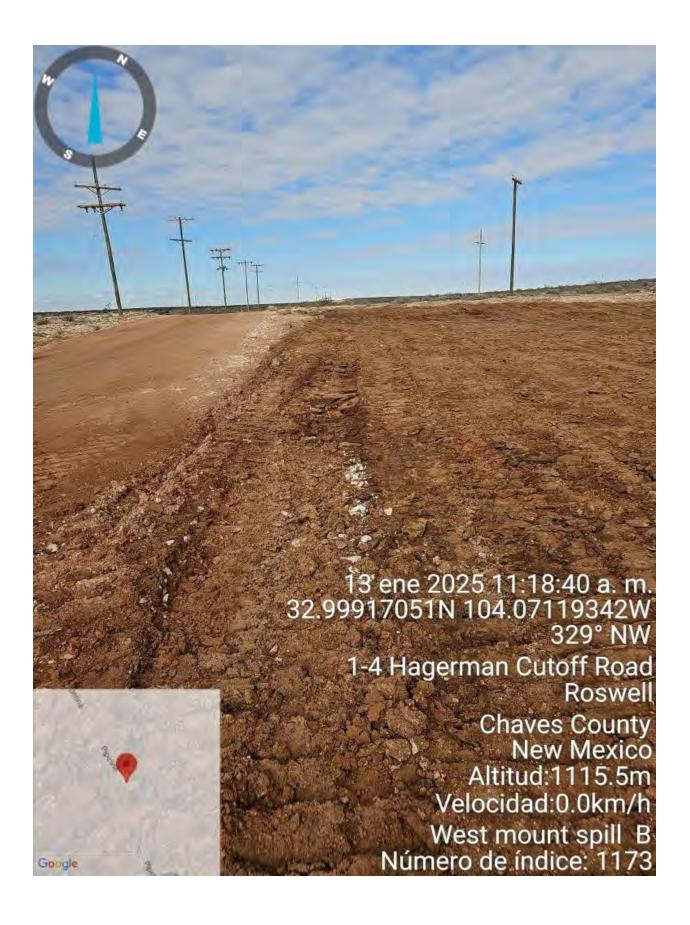














MACK ENERGY CORPORATION WEST MOUNT SPILL B RECLAMATION EXECUTIVE SUMMARY

API NO. 30-005-64381
UNIT LETTER M, SECTION 27, TOWNSHIP 15S, RANGE 28E
CHAVES COUNTY, NEW MEXICO

Reclamation Executive Summary

Subject: Final Reclamation Summary – West Mount Spill B (Incident No. NAPP2327759229)

On January 7, 2025, ESS initiated and completed reclamation activities at the West Mount Spill B site following the finalization of remediation efforts for the release that occurred on September 23, 2023 (Incident Number: NAPP2327759229).

A total of 120 cubic yards of topsoil was loaded and hauled from Mack's Bogel's Pit. The topsoil was evenly spread across the entire 2,494 square-foot impacted area. The site was then ripped, contoured, and sloped to match the natural grade. Reseeding was conducted using the Sandy Loam Seed Mixture in accordance with State Land Office (SLO) Rules and Regulations.

A five-point composite was taken from the center of the excavation/backfill area located at 32.999350, -104.071244. Please find the reclamation composite map and confirmed lab analysis attached herein.

Final reclamation photos have been included with the Closure Report, which has been uploaded and submitted through the NMOCD Portal. The seed tag associated with the seeding event is also attached for your records.

Should you have any questions or require additional information regarding the completed reclamation activities at the West Mount Spill B site for Mack Energy, please feel free to contact me at (575) 390-6397 or (575) 393-9048, or via email at natalie@energystaffingllc.com.

Sincerely,

Natalie Gladden

COO and Director of Environmental and Regulatory Services

tarii Gradden

Energy Staffing Services, LLC.

2724 NW County Road

Hobbs, NM 88240

Cell: 575-390-6397

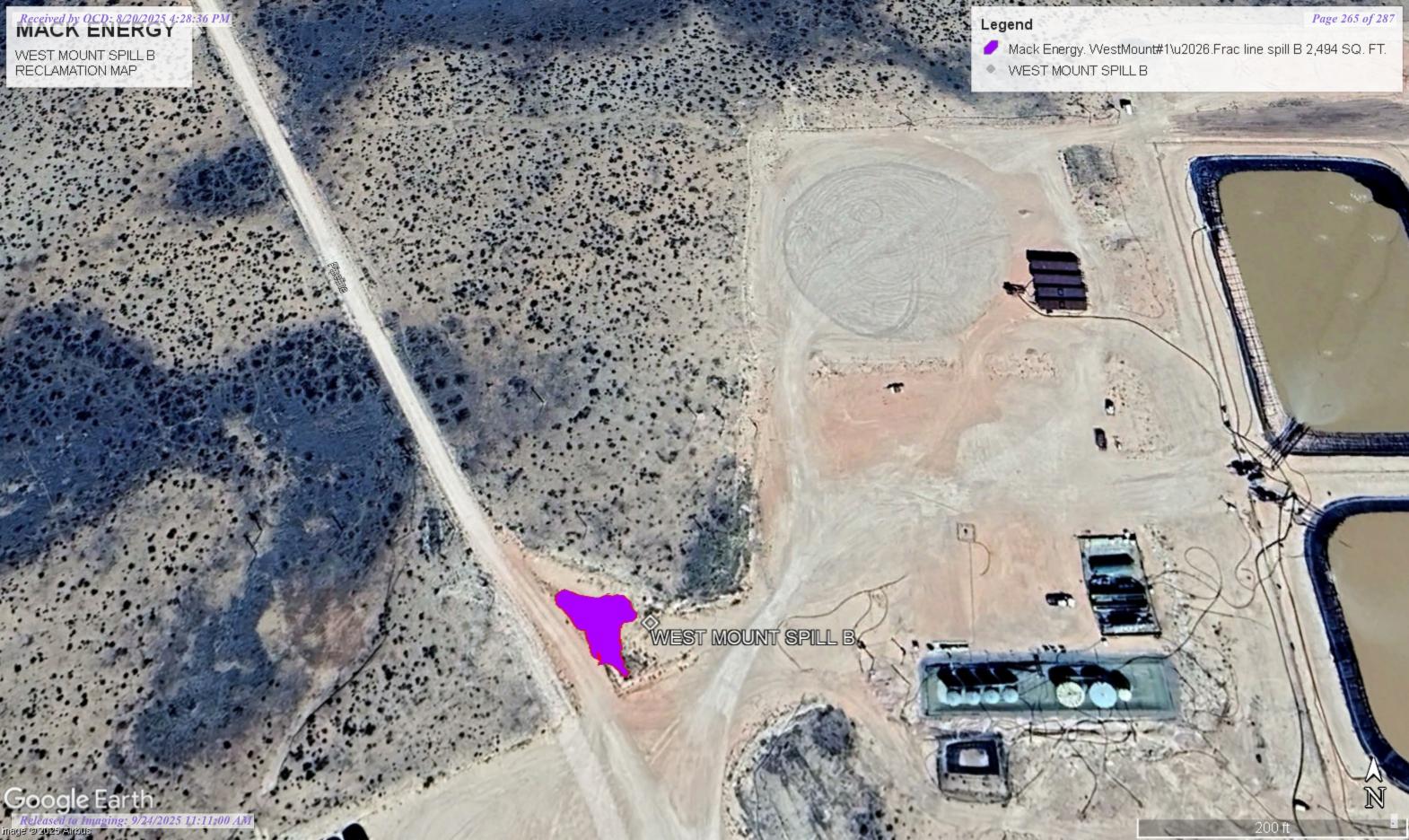
Office: 575-393-9048

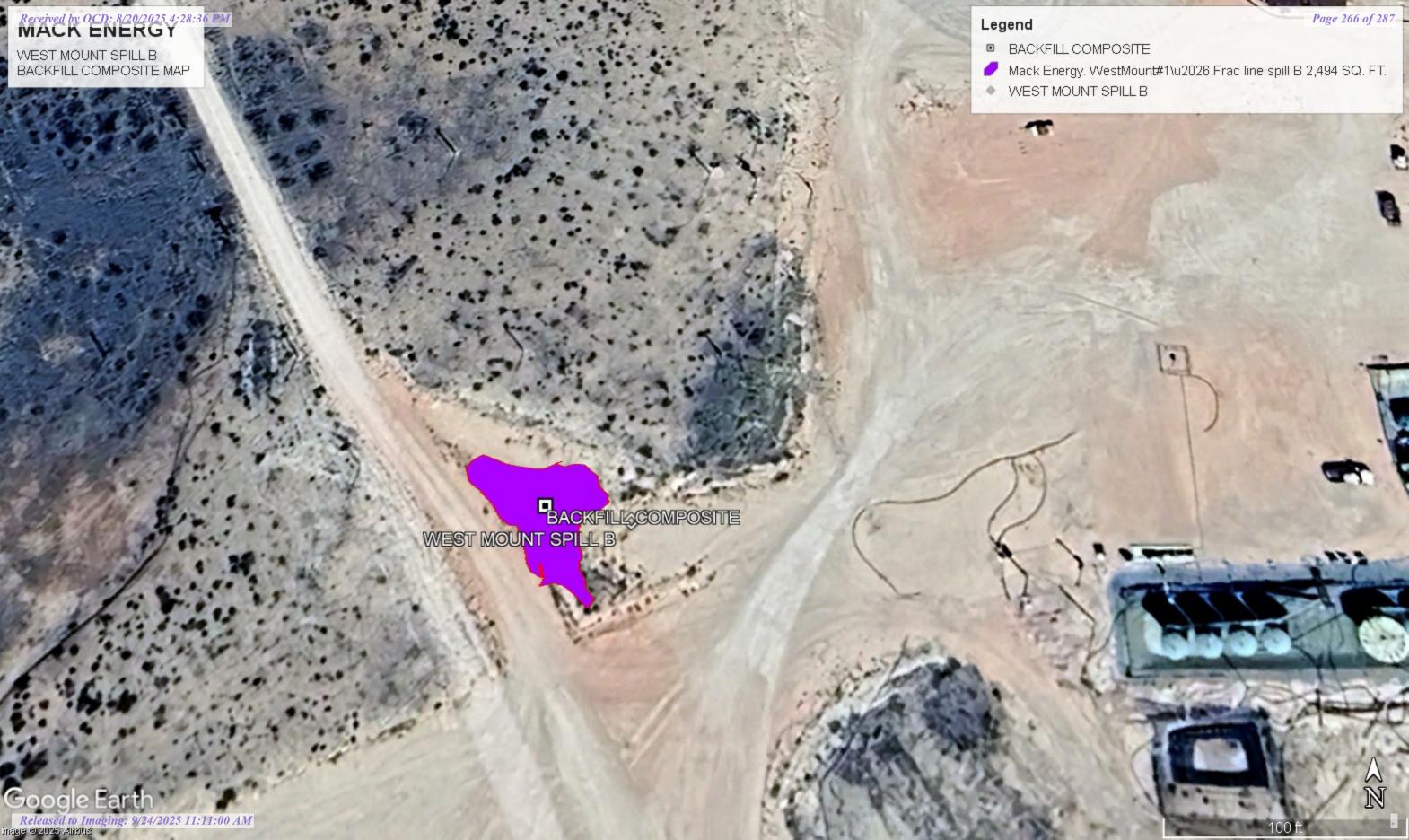
Email: natalie@energystaffingllc.com

Jurtis of Curtis Seed

Mack Energy
NMSLO Sandy-Loam- 1.8 Ac Broadcasted

Item	% Pure MIX Origin Purity						
in Blington Aldels	9.72%	Kansas	61,69%	29.00%	31.00%	%00.06	11/2024
Calleta Viva	9.30%	9.30% Texas	86.14%	21.00%	73.00%	94.00%	9/2024
Bue Grama Alma	7.36%	Texas	31.75%	94.00%	1.00%	95.00%	10/2024
Sideoate Grama Niner	7.21%		71.10%	16,00%	81.00%	97.00%	12/2024
Four-wind Salthush Variety Not Stated	,-		New Mexic@1.52%	%00 b	0.00%	%00.66	11/2024
Winter Eat Variety Not Stated			New Mexical 97%	%00 bg	200%	92.00%	8/2024
Palmer Penstemon Variety Not Stated	,,,		98.86%		79.00%	94.00%	7/2024
Cand Dronseed Variety Not Stated			দ্র	92 00%	5.00%	97.00%	10/2024
Callardia Aristata Variety Not Stated			Oregon 89.09%	92.00%	0.00%	97.00%	6/2024
Blie Elay Appar			Washington98.42%	97,00%	0.00%	92.00%	6/2024
Blackeyed Susan, Variety Not Stated			99.3Pm	39.00%	0.00%	%00'66	6/2024
Seed Total	65.39%				2		
Inert Matter:	34.54%					Y lav	
Other Crop:	0.08%			O ISMN	Sandy Loa	NMSI O Sandy Loam-1.8 AC Broadcasted.	adcaste
Weed Seed:	0.01%	*		Bacalolo	M 0.5 acre	n 10.5 acre Bag into 3) 0.5 ac	.5 ac





Report to:

Natalie Gladden







5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill B

Work Order: E507174

Job Number: 20046-0001

Received: 7/17/2025

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/18/25

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/18/25

Natalie Gladden 7 W. Compress Road Artesia, NM 88210

Project Name: West Mount Spill B

Workorder: E507174

Date Received: 7/17/2025 7:00:34AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/17/2025 7:00:34AM, under the Project Name: West Mount Spill B.

The analytical test results summarized in this report with the Project Name: West Mount Spill B apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

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Sample Summary

_			•	
ſ	Mack Energy	Project Name:	West Mount Spill B	Reported:
١	7 W. Compress Road	Project Number:	20046-0001	Reported.
l	Artesia NM, 88210	Project Manager:	Natalie Gladden	07/18/25 14:05

Client Sample ID	Lab Sample ID Ma	atrix	Sampled	Received	Container
BACKFILL COMP 1 - SURF	E507174-01A So	oil	07/15/25	07/17/25	Glass Jar, 2 oz.



Sample Data

Mack Energy	Project Name:	West Mount Spill B	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/18/2025 2:05:52PM

BACKFILL COMP 1 - SURF

E507174-01

		1207174 01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: BA		Batch: 2529119
Benzene	ND	0.0250	1	07/17/25	07/17/25	
Ethylbenzene	ND	0.0250	1	07/17/25	07/17/25	
Toluene	ND	0.0250	1	07/17/25	07/17/25	
o-Xylene	ND	0.0250	1	07/17/25	07/17/25	
p,m-Xylene	ND	0.0500	1	07/17/25	07/17/25	
Total Xylenes	ND	0.0250	1	07/17/25	07/17/25	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	07/17/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2529119
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/17/25	07/17/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	07/17/25	07/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KH		Batch: 2529134
Diesel Range Organics (C10-C28)	ND	25.0	1	07/17/25	07/17/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/17/25	07/17/25	
Surrogate: n-Nonane		94.1 %	61-141	07/17/25	07/17/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: IY		Batch: 2529117



West Mount Spill B Mack Energy Project Name: Reported: 7 W. Compress Road Project Number: 20046-0001 Artesia NM, 88210 Project Manager: Natalie Gladden 7/18/2025 2:05:52PM **Volatile Organics by EPA 8021B** Analyst: BA Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2529119-BLK1) Prepared: 07/17/25 Analyzed: 07/17/25 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 8.00 8.00 100 70-130 LCS (2529119-BS1) Prepared: 07/17/25 Analyzed: 07/17/25 5.17 5.00 103 70-130 Benzene 0.0250 Ethylbenzene 5.14 0.0250 5.00 103 70-130 5.19 0.0250 5.00 104 70-130 Toluene 101 o-Xylene 5.04 0.0250 5.00 70-130 10.3 10.0 103 70-130 0.0500 p.m-Xvlene 102 70-130 15.4 15.0 Total Xylenes 0.0250 8.00 100 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.02 Matrix Spike (2529119-MS1) Source: E507176-01 Prepared: 07/17/25 Analyzed: 07/17/25 5.04 0.0250 5.00 ND 70-130 Benzene ND 102 70-130 Ethylbenzene 5.10 0.0250 5.00 Toluene 5.12 0.0250 5.00 ND 102 70-130 5.03 ND 101 70-130 5.00 0.0250 o-Xylene p,m-Xylene 10.3 0.0500 10.0 ND 103 70-130 15.3 0.0250 15.0 ND 70-130 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.27 8.00 Matrix Spike Dup (2529119-MSD1) Source: E507176-01 Prepared: 07/17/25 Analyzed: 07/17/25 4.92 0.0250 5.00 ND 98.4 70-130 2.42 27 ND 70-130 2.12 4.99 0.0250 5.00 99.8 26 Ethylbenzene Toluene 5.00 0.0250 5.00 ND 100 70-130 2 31 20 4.93 5.00 ND 98.7 70-130 1.95 25 o-Xylene 0.0250 2.00 23 10.1 10.0 ND 101 70-130

0.0500

0.0250

15.0

8.00

ND

100

104

70-130

70-130

1.98

26

15.0

8.36



p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Mack Energy	Project Name:	West Mount Spill B	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/18/2025 2:05:52PM

Artesia NM, 88210		Project Manage	r: Na	talie Gladder	1			7/1	8/2025 2:05:52PM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2529119-BLK1)							Prepared: 0	7/17/25 Anal	yzed: 07/17/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			
LCS (2529119-BS2)							Prepared: 0	7/17/25 Anal	yzed: 07/17/25
Gasoline Range Organics (C6-C10)	45.6	20.0	50.0		91.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			
Matrix Spike (2529119-MS2)				Source:	E507176-	01	Prepared: 0	7/17/25 Anal	yzed: 07/17/25
Gasoline Range Organics (C6-C10)	42.1	20.0	50.0	ND	84.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			
Matrix Spike Dup (2529119-MSD2)				Source:	E507176-	01	Prepared: 0	7/17/25 Anal	yzed: 07/17/25
Gasoline Range Organics (C6-C10)	42.7	20.0	50.0	ND	85.3	70-130	1.40	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			

Mack Energy	Project Name:	West Mount Spill B	Reported:
7 W. Compress Road	Project Number:	20046-0001	•
Artesia NM, 88210	Project Manager:	Natalie Gladden	7/18/2025 2:05:52PM

Artesia NM, 88210		Project Manage	r: Na	ıtalie Gladder	1			7	7/18/2025 2:05:52PN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KH
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2529134-BLK1)							Prepared: 0	7/17/25 An	alyzed: 07/17/25
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.8		50.0		95.7	61-141			
LCS (2529134-BS1)							Prepared: 0	7/17/25 An	alyzed: 07/17/25
Diesel Range Organics (C10-C28)	240	25.0	250		95.9	66-144			
Surrogate: n-Nonane	47.9		50.0		95.7	61-141			
Matrix Spike (2529134-MS1)				Source:	E507178-	07	Prepared: 0	7/17/25 An	alyzed: 07/17/25
Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.1	56-156			
Surrogate: n-Nonane	47.9		50.0		95.8	61-141			
Matrix Spike Dup (2529134-MSD1)				Source:	E507178-	07	Prepared: 0	7/17/25 An	alyzed: 07/17/25
Diesel Range Organics (C10-C28)	238	25.0	250	ND	95.1	56-156	1.08	20	
Surrogate: n-Nonane	47.7		50.0		95.5	61-141			

Mack Energy		Project Name:		est Mount Sp	ill B				Reported:
7 W. Compress Road Artesia NM, 88210		Project Number: Project Manager:		0046-0001 atalie Gladder	n				7/18/2025 2:05:52PM
		Anions	by EPA 3	300.0/9056 <i>£</i>	4				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2529117-BLK1)							Prepared: 0	7/17/25 A	nalyzed: 07/17/25
Chloride	ND	20.0							
LCS (2529117-BS1)							Prepared: 0	7/17/25 A	nalyzed: 07/17/25
Chloride	248	20.0	250		99.3	90-110			
Matrix Spike (2529117-MS1)				Source:	E507178-	02	Prepared: 0	7/17/25 A	nalyzed: 07/17/25
Chloride	786	20.0	250	555	92.6	80-120			
Matrix Spike Dup (2529117-MSD1)				Source:	E507178-	02	Prepared: 0	7/17/25 A	nalyzed: 07/17/25
Chloride	795	20.0	250	555	96.2	80-120	1.12	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

	Mack Energy	Project Name:	West Mount Spill B	
-	7 W. Compress Road	Project Number:	20046-0001	Reported:
-	Artesia NM, 88210	Project Manager:	Natalie Gladden	07/18/25 14:05

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Project Information Chain of Custody

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Page	1 of

Received by OCD: 8/20/2025 4:28:36 PM

Client:	MAC	KK	NERC	y		Bill To		Г		Lá	ab Us	se Or	nly	T		TA	T	EPA P	rogram
Client: MACK KNEKCY Project: WESTMONN, SPILL B			Atte	Attention: ENERGY STAFFING SERVICES		Lab WO#			101		Number	1D	1D 2D 3D 5		Standard	CWA	SDWA		
	Manager:				1	ress: 2724 NW COUNTY RD	110	EE	50	71	14	1	046-0001		$\perp \times$				
Address:						, State, Zip HOBBS, NM 882	240					Anal	ysis and Metho	d					RCRA
City, Stat	te, Zip					ne: 575-393-9048	CLLCCOM											Chaha	
Phone:					Ema	nil: NATALIE@ENERGYSTAFFIN		8015	3015								NMI CO	State	TVI
Email:	luo bur				157	- BRITTNEY@ENERGYSTAPFI	NGLLC.COM	þ	by 8	8021	8260	010	300.0	Σ	×		NIV CO	OT AZ	
Report o	Date			1			Lab	ORC	/DRC	2	6	115 60	ide	20					
Time Sampled	Sampled	Matrix	No of Containers	Sample ID			Number	DRO/ORO	GRO/DRO by 8015	BTEX	VOC	Metals 6010	Chloride	верос	BGDOC			Remarks	
	7/-/-	. 5	1	0.1	(11)	. 1	1							X			4.2		
700	1/15/75			BOCK	MU CO	yp 1-SYRK	1	_		-		_		1	-		1.0		
							1 11/2								1				
	-		-	 				-	-	-	-	-		+	+-	-			
			1				1111												
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Additio	nal Instruc	tions.					1		1		1					<u></u>			
ridarcio	ilai ilisti de	tions.																	
I, (field san	opler), attest to	the validit	y and authen	ticity of this sa	mple. I am aware t	that tampering with or intentionally misl	abelling the sampl	e locat	ion,			1					eived on ice the day t		ed or received
Gute of this	C OI COIICCUOII	15 0011310011	ed fraud and	may be ground	s for legal action.							раске	ed in ice at an avg ten				°C on subsequent day	/5,	
Relinquis	Add My: (Sign	ture)	Date	1/15/15	Iime	Received by: (Signature)	7.14	20	Time					-		se Onl	ly		
Polinguist	and hur Islam	oturo!	Dat.	1010	Time	Received by: (Signature)	Date		Time			Rec	ceived on ice:		YIN	4			
Reinguisi	ned by: (Sign:		mber	7.16.25	1530	Mariasa Lonzale	7-16 Date	-25	5/16	320)	T1		Т2			T3		
Relinquis	ned by: (Sign		Dat		Time	Received by: (Signature)	Date		Time	- 50		1		12					
Mar	issa &	onza	les 7	-16-25	1900	1.11	7.16.		1	900)	AV	G Temp °C						
				Aqueous, O - O		UA.CM			e:g-	glass	, p - r		olastic, ag - ami	oer gla	355, V	- VOA			
Note: Sar	nples are disc	arded 30	days after r	esults are rep	orted unless oth	er arrangements are made. Hazard	lous samples wil	l be re	eturne	d to c	lient c	or disp	osed of at the cl	ent ex	pense	. The r	eport for the ana	lysis of the	above
samples i	s applicable o	only to tho	se samples	received by t	he laboratory wi	th this CO. The liability of the labor	atory is limited t	to the	amou	nt pai	d for	on the	report.						
1						Caitling	m 111	70	3/4	\sim	-	1-	3			7 1	rat		a L
1 1	Н		17	.16.25	2400	The same	7-11	σ	1	W	(-	E		V		rot	C	CI
M /1 C						A	-	-					1000				1000		

7.17.25 CM

Printed: 7/17/2025 2:02:57PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Mack Energy	Date Received:	07/17/25	07:00		Work Order ID:	E507174
Phone:	(575) 390-6397	Date Logged In:	07/16/25	16:03		Logged In By:	Caitlin Mars
Email:	Natalie@energystaffingllc.com	Due Date:	07/18/25	17:00 (1 day TAT	·)		
Chain of	Custody (COC)						
	he sample ID match the COC?		Yes				
	he number of samples per sampling site location ma	tch the COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Carrier	: Courier		
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	No				
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucss	•	Yes			Comment	ts/Resolution
	[urn Around Time (TAT) e COC indicate standard TAT, or Expedited TAT?		Yes		Project	manager not pro	ovided on COC.
Sample C	Cooler						
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
	, were custody/security seals intact?		NA				
•	the sample received on ice?						
	Note: Thermal preservation is not required, if samples at 15 minutes of sampling		Yes				
	OC for individual sample temps. Samples outside of	of 0°C-6°C will be	recorded	in comments.			
	<u>Container</u>						
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?	_	NA				
	on-VOC samples collected in the correct containers		Yes				
	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lal							
	field sample labels filled out with the minimum inf	ormation:	Yes				
	ample ID? eate/Time Collected?		Yes				
	follectors name?		No				
Sample F	Preservation		110				
	the COC or field labels indicate the samples were p	reserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
	filtration required and/or requested for dissolved m	etals?	No				
Multipha	ase Sample Matrix						
	the sample have more than one phase, i.e., multipha	ise?	No				
	, does the COC specify which phase(s) is to be anal		NA				
		•	1411				
	act Laboratory	9	NT.				
	amples required to get sent to a subcontract laborate	-	No	0.1	1 374		
29. was a	a subcontract laboratory specified by the client and i	i so wno?	NA	Subcontract L	ab: NA		
Client II	<u>nstruction</u>						
1							

Date

Signature of client authorizing changes to the COC or sample disposition.

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 497889

QUESTIONS

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	497889
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites				
Incident ID (n#)	nAPP2327759229			
Incident Name	NAPP2327759229 WEST MOUNT SPILL B @ 30-005-64381			
Incident Type	Produced Water Release			
Incident Status	Reclamation Report Received			
Incident Well	[30-005-64381] WESTMOUNT FEDERAL COM #001H			

Location of Release Source				
Please answer all the questions in this group.				
Site Name	WEST MOUNT SPILL B			
Date Release Discovered	09/20/2023			
Surface Owner	State			

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 16 BBL Recovered: 0 BBL Lost: 16 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

Operator:

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

OGRID:

QUESTIONS, Page 2

Action 497889

QUESTIONS (continued)

MACK ENERGY CORP	13837				
P.O. Box 960	Action Number:				
Artesia, NM 882110960	497889				
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)				
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.	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 s	afety 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.				
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.				
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or				
I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 08/20/2025				

Sante Fe Main Office Phone: (505) 476-3441 General Information

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

QUESTIONS, Page 3

Action 497889

QUESTIONS (continued)

Operator:	OGRID:		
MACK ENERGY CORP	13837		
P.O. Box 960	Action Number:		
Artesia, NM 882110960	497889		
	Action Type:		
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)		

QUESTIONS

Site Characterization				
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the			
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (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	Greater than 5 (mi.)			
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)			
An occupied permanent residence, school, hospital, institution, or church	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	Greater than 5 (mi.)			
Any other fresh water well or spring	Greater than 5 (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	None			
A 100-year floodplain	Greater than 5 (mi.)			
Did the release impact areas not on an exploration, development, production, or storage site	Yes			

Remediation Plan			
Please answer all the questions that apply or are indicated. This information must be provided to	the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes		
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated	Yes		
Was this release entirely contained within a lined containment area	No		
Soil Contamination Sampling: (Provide the highest observable value for each, in mil	ligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	5590		
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0		
GRO+DRO (EPA SW-846 Method 8015M)	0		
BTEX (EPA SW-846 Method 8021B or 8260B)	0		
Benzene (EPA SW-846 Method 8021B or 8260B)	0		
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed which includes the anticipated timelines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,		
On what estimated date will the remediation commence	09/17/2024		
On what date will (or did) the final sampling or liner inspection occur	10/14/2024		
On what date will (or was) the remediation complete(d)	01/13/2025		
What is the estimated surface area (in square feet) that will be reclaimed	2494		
What is the estimated volume (in cubic yards) that will be reclaimed	2320		
What is the estimated surface area (in square feet) that will be remediated	2494		
What is the estimated volume (in cubic yards) that will be remediated	1940		
These estimated dates and measurements are recognized to be the best guess or calculation at the			
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 497889

QUESTIONS	(continued)

Operator:	OGRID:
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	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

e 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.)		
Yes		
fEEM0112338393 GANDY MARLEY LANDFARM/LANDFILL		
Not answered.		
Not answered.		
Not answered.		
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.

Name: Natalie Gladden
Title: Environmental
Email: natalie@energystaffingllc.com
Date: 08/20/2025

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 497889

QUESTIONS (continued)

Operator:	OGRID:
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P.O. Box 960	Action Number:
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	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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

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Action 497889

QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP	13837
P.O. Box 960	Action Number:
Artesia, NM 882110960	497889
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	389430
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/04/2024
What was the (estimated) number of samples that were to be gathered	33
What was the sampling surface area in square feet	2494

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	2494
What was the total volume (cubic yards) remediated	1940
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	2494
What was the total volume (in cubic yards) reclaimed	369
Summarize any additional remediation activities not included by answers (above)	ALL RECLAMATION ACTIVITIES HAVE BEEN COMPLETED. MOST OF THE RELEASE WAS ON THE ROAD ENTRANCE.

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.

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Date: 08/20/2025

Operator:

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QUESTIONS, Page 7

Action 497889

QUESTIONS (continued)

OGRID:

MACK ENERGY CORP	13837	
P.O. Box 960 Artesia, NM 882110960	Action Number: 497889	
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	
QUESTIONS		
Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	Yes	
What was the total reclamation surface area (in square feet) for this site	2494	
What was the total volume of replacement material (in cubic yards) for this site	120	
	four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 over must include a top layer, which is either the background thickness of topsoil or one foot of suitable material	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes	
On what (estimated) date will (or was) the reseeding commence(d)	01/13/2025	
Summarize any additional reclamation activities not included by answers (above)	ALL RECLAMATION ACTIVITIES HAVE BEEN CONDUCTED.	
	reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form t field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13	
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 repor	knowledge and understand that pursuant to OCD rules and regulations all operators are required isses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ng notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 08/20/2025	

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QUESTIONS, Page 8

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QUESTIONS (continued)

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	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report		
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.		
Requesting a restoration complete approval with this submission	No	
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.		

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CONDITIONS

Action 497889

CONDITIONS

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	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

1	Created By	Condition	Condition Date
	rhamlet	We have received your reclamation report for Incident #NAPP2327759229 WEST MOUNT SPILL B, thank you. The reclamation report is approved.	9/24/2025