WEST MOUNT SPILL 1
CLOSURE REQUEST

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

DATE OF RELEASE: 09/08/2023
INCIDENT NO. NAPP2325464608

December 11, 2024
Prepared by:

2724 NW COUNTY ROAD
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December 11, 2024

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Subject: Closure Request for Mack Energy Corporation – West Mount Spill 1

API No. 30-005-64381
Incident No. NAPP2325464608
Legal: Unit Letter M, Section 27, Township 15S, Range 28E
Chaves County, New Mexico

To Whom it May Concern:

Mack Energy Corporation retained Energy Staffing Services, LLC (ESS) to conduct a spill assessment for the West Mount Spill 1 (hereafter referred to as the "WM Spill 1") for the produced water release that occurred on September 8th, 2023. On September 11th at 4:57p.m., ESS provided the immediate notification of the release to the *New Mexico Oil Conservation Division (NMOCD), Division 1 Office* thru the NMOCD Portal Website. (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 same said date. The NMOCD accepted the C141 as record, the incident number assigned to the release for the West Mount Spill 1 is NAPP2325464608. (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 18th, 2023, it was discovered that a leak had occurred when a Mack Energy contractor responsible for the water transfer lines for frac jobs in the area, known as Well Spring Water Services. The flat line ruptured releasing fluid into the pasture area and lease road.

Upon discovery of the release, ESS was notified and dispatched out to location to conduct a full environmental assessment of the produced water release. It was determined, after measuring the area of impact, that approximately 96.64bbls of produced water was released and due to the fluid soaking in overnight, no fluid was recovered. Please see the initial site photos attached.

Site Characterization

The release on the West Mount Spill 1 occurred on State Land and is located at 32.978494 latitude and -104.094969 longitude, located 16.56 miles southeast of Hagerman, New Mexico. The legal description of the site is Unit M, Section 27, Township 15S and Range 28E. This site is located in Chaves County, New Mexico. Please see the site schematic attached.

The WM Spill 1 consists of production lines and is near production facilities and well pads. The area of the release occurred in the pasture and road area, along the main lease road. Elevation is 3572 feet. The area is historically or has been primarily dominated by Adonis blazingstar, black grama, blue grama and other perennial grasses. Please find the attached Rangeland and Vegetation Classification information attached.

The *United States Department of Agriculture Natural Resources Conservation Services* indicates that the soil type in the area of the WM Spill 1 consists of 93.5% Alama Loam (Aa) and 6.5% Holloman-Gypsum Land Complex (HrC), with 3 to 5 percent slopes. The area of interest measures 22.1 acres. (Soil Map Attached). In the area of the WM Spill 1, the *FEMA National Flood Hazard Layer* indicates that there is a 0.2% annual chance of a flood hazard, areas of 1% annual chance of flood with average depth less than one foot or with drainage areas of less than one square mile. Please find the FEMA Map attached herein.

A Karst Study was conducted and the area of the WM Spill 1 has “no karst potential” for Karst Geology to be present, according to the *United States Department of the Interior, Bureau of Land Management*. Please find the Karst Map attached to this report.

There is surface water known as a “salt creek bed” found to be southwest of the WM Spill 1, approximately 1.51 away from the release site. The site is not near a continuously flowing

watercourse and/or lakebed within ½ mile from the release. No other critical or community features were found at the WM Spill 1. (Attached Watercourse Map).

The nearest and most recent water well to the site according to the *New Mexico Office of the State Engineer* is RA 12428, drilled in 2016 with a well depth of 125'bgs, found 5,020 yards from the site. The second well is RA 12429 POD1, drilled in 2016 with a well depth of 27'bgs found 5,541 yards from the site. The third well near the site is RA 09248, drilled in 1996 with a well depth of 45'bgs found 6,888 yards from the site. The fourth well found near the site is RA 10280, drilled in 2002 with a well depth of 40'bgs, found 6,959 yards from the site. An extended ground water search was conducted using the *OSE POD Location Mapping System* and it has been determined that a new water well was located just north of the site and outside the ½ radius drilled in November of 2024 but does not have any information as to the depth of ground water, LWD-03197-POD 1 and LWD-03198-POD1 was also found outside the ½ mile radius also for livestock with no recorded depth of well or depth of ground water. Please find all the NMOSE, OSE POD Map and the groundwater map attached to this report.

Closure Criteria Determination

The Closure Criteria for Soils Impacted by a Release is shown in the charge below. With no groundwater data available within a ½ mile radius from the release point, being on State Land and with having "no karst potential," this site fell under <50'dgw (depth 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 at the WM Spill 1 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, sampling 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 field samples, conduct field sampling using the titration method for chlorides and a PID meter to check for volatiles in the soil consistent with TPH Levels
- Collect the second clean consecutive sample, place the soil in an airtight glass jar supplied by the laboratory to conduct the analysis.
- Each sample jar was labelled with site and sample information.
- Samples are then placed on ice and stored until they are delivered to the approved analytical laboratory.
- 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 September 19th, 2023, ESS arrived onsite of the WM Spill M, set the delineation sample points, GPS'd each sample point, and began obtaining surface samples. Each surface sample was field tested, logged and submitted to Envirotech Laboratory for confirmation. A total of 64 vertical samples points and a total of 44 horizontal sample points were placed. Surface samples were obtained first then full delineation commenced. Delineation was completed January 4th of 2024. Depths of contamination ranged from 2' to 8'bgs respectively. Please see the sample data sheet below and attached to this report along with the lab analysis reports. Also find the Delineation Sample Map with the GPS log.

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
SP1	SURF	>4000	L	ND	ND	ND	ND	ND	6090
	2	>4000							
	4	320							
	6	400							
	8	240	L	ND	ND	ND	ND	ND	ND
SP2	SURF	480	L	ND	ND	ND	ND	ND	433
	2	320							
	4	240	L	ND	ND	ND	ND	ND	341
SP3	SURF	1680	L	ND	ND	ND	ND	ND	1890
	2	400							
	4	160	L	ND	ND	ND	ND	ND	ND
SP4	SURF	160	L	ND	ND	ND	ND	ND	ND
	2	320							
	4	240	L	ND	ND	ND	ND	ND	ND
SP5	SURF	880	L	ND	ND	ND	ND	ND	1080
	2	320							
	4	160	L	ND	ND	ND	ND	ND	ND
SP6	SURF	160	L	ND	ND	ND	ND	ND	ND
	2	400							
	4	240	L	ND	ND	ND	ND	ND	ND
SP7	SURF	160	L	ND	ND	ND	ND	ND	ND
	2	2400							
	4	160							
	6	160	L	ND	ND	ND	ND	ND	ND
SP8	SURF	80	L	ND	ND	ND	ND	ND	ND
	2	2960							
	4	160							
	6	160	L	ND	ND	ND	ND	ND	ND
SP9	SURF	80	L	ND	ND	ND	ND	ND	ND
	2	400							
	4	320	L	ND	ND	ND	ND	ND	ND

SP10	SURF	80	L	ND	ND	ND	ND	ND	ND
	2	960							
	4	160							
	6	160	L	ND	ND	ND	ND	ND	ND
SP11	SURF	80	L	ND	ND	ND	ND	ND	ND
	2	80							
	4	80	L	ND	ND	ND	ND	ND	ND
SP12	SURF	80	L	ND	ND	ND	ND	ND	ND
	2	1360							
	4	80							
	6	80	L	ND	ND	ND	ND	ND	ND
SP13	SURF	80	L	ND	ND	ND	ND	ND	ND
	2	160							
	4	80	L	ND	ND	ND	ND	ND	ND
SP14	SURF	80	L	ND	ND	ND	ND	ND	ND
	2	160							
	4	160	L	ND	ND	ND	ND	ND	ND
SP15	SURF	80	L	ND	ND	ND	ND	ND	ND
	2	80							
	4	80	L	ND	ND	ND	ND	ND	ND
SP16	SURF	80	L	ND	ND	ND	ND	ND	ND
	2	80							
	4	80	L	ND	ND	ND	ND	ND	ND
SP17	SURF	80	L	ND	ND	ND	ND	ND	ND
	2	80							
	4	80	L	ND	ND	ND	ND	ND	ND
SP18	SURF	80	L	ND	ND	ND	ND	ND	28.9
	2	80							
	4	80	L	ND	ND	ND	ND	ND	ND
SP19	SURF	80	L	ND	ND	ND	ND	ND	116
	2	160							

	4	80	L	ND	ND	ND	ND	ND	ND
SP20	SURF	80	L	ND	ND	ND	ND	ND	75.7
	2	2640							
	4	800							
	6	320							
	8	160							
	10	80	L	ND	ND	ND	ND	ND	ND
SP21	SURF	80	L	ND	ND	ND	ND	ND	ND
	2	640							
	4	400							
	6	240	L	ND	ND	ND	ND	ND	ND
SP22	SURF	1600	H	ND	ND	292	178	470	1740
	2	320							
	4	160							
	6	80	L	ND	ND	ND	ND	ND	ND
SP23	SURF	160	L	ND	ND	ND	ND	ND	ND
	2	160							
	4	160							
	6	80	L	ND	ND	ND	ND	ND	ND
SP24	SURF	80	L	ND	ND	ND	ND	ND	78.3
	2	160							
	4	80							
	6	80	L	ND	ND	ND	ND	ND	ND
SP25	SURF	80	L	ND	ND	ND	ND	ND	59.1
	2	320							
	4	80							
	6	80	L	ND	ND	ND	ND	ND	ND
SP26	SURF	80	L	ND	ND	ND	ND	ND	43.2
	2	1520							
	4	240							
	6	80	L	ND	ND	ND	ND	ND	ND
SP27	SURF	240	L	ND	ND	ND	ND	ND	280
	2	320							

	4	160							
	4	80							
	6	80	L	ND	ND	ND	ND	ND	ND
SP28	SURF	800	L	ND	ND	ND	ND	ND	**1270**
	2	1600							
	4	640							
	6	320							
	8	80							
	10	80	L	ND	ND	ND	ND	ND	ND
SP29	SURF	3760	L	ND	ND	ND	ND	ND	**4910**
	2	320							
	4	320							
	6	160							
	8	160							
	10	160							
	12	80	L	ND	ND	ND	ND	ND	ND
SP30	SURF	160	L	ND	ND	ND	ND	ND	216
	2	640							
	4	400							
	6	240							
	8	160							
	10	160							
	12	80	L	ND	ND	ND	ND	ND	ND
SP31	SURF	>4000	L	ND	ND	ND	ND	ND	**13200**
	2	960							
	4	560							
	6	400							
	8	160							
	10	80	L	ND	ND	ND	ND	ND	ND
SP32	SURF	80	L	ND	ND	ND	ND	ND	56.9
	2	320							
	4	160							
	6	80	L	ND	ND	ND	ND	ND	ND
SP33	SURF	80	L	ND	ND	ND	ND	ND	54.2
	2	240							

	4	80							
	6	80	L	ND	ND	ND	ND	ND	ND
SP34	SURF	80	L	ND	ND	ND	ND	ND	86.2
	2	320							
	4	800							
	6	720							
	8	560							
	10	80							
	12	80	L	ND	ND	ND	ND	ND	ND
SP35	SURF	80	L	ND	ND	ND	ND	ND	93.4
	2	880							
	4	640							
	6	240							
	8	80	L	ND	ND	ND	ND	ND	ND
SP36	SURF	>4000	L	ND	ND	ND	ND	ND	**10500**
	2	400							
	4	160							
	6	80							
	8	240							
	10	160	L	ND	ND	ND	ND	ND	ND
SP37	SURF	80	L	ND	ND	ND	ND	ND	81
	2	320							
	4	160							
	6	160							
	8	80	L	ND	ND	ND	ND	ND	ND
SP38	SURF	80	L	ND	ND	ND	ND	ND	116
	2	160							
	4	160							
	6	80							
	8	240							
	10	160							
	12	80	L	ND	ND	ND	ND	ND	ND
SP39	SURF	160	L	ND	ND	ND	ND	ND	237
	2	240							
	4	160							

	6	80	L	ND	ND	ND	ND	ND	ND
SP40	SURF	240	L	ND	ND	ND	ND	ND	302
	2	240							
	4	160							
	6	160	L	ND	ND	ND	ND	ND	ND
SP41	SURF	400	L	ND	ND	35.9	ND	35.9	424
	2	160							
	4	160	L	ND	ND	ND	ND	ND	166
SP42	SURF	480	L	ND	ND	75.4	ND	75.4	**659**
	2	160							
	4	160	L	ND	ND	ND	ND	ND	166
SP43	SURF	480	L	ND	ND	84.4	ND	84.4	**679**
	2	160							
	4	160	L	ND	ND	ND	ND	ND	164
SP44	SURF	480	L	ND	ND	45.8	ND	45.8	533
	2	240							
	4	240	L	ND	ND	ND	ND	ND	159
SP45	SURF	400	**H**	ND	ND	**72.8**	**58.2**	**131**	488
	2	160							
	4	160	L	ND	ND	ND	ND	ND	163
SP46	SURF	3520	**H**	ND	ND	**66.9**	**56.1**	**123**	**4610**
	2	160							
	4	160	L	ND	ND	ND	ND	ND	165
SP47	SURF	>4000	L	ND	ND	30.2	ND	30.2	**8420**
	2	160							
	4	160	L	ND	ND	ND	ND	ND	164
SP48	SURF	>4000	L	ND	ND	ND	ND	ND	**6080**
	2	480							
	4	240							
	6	240	L	ND	ND	ND	ND	ND	163
SP49	SURF	>4000	L	ND	ND	ND	ND	ND	**11100**

	2	640							
	4	240							
	6	240	L	ND	ND	ND	ND	ND	161
SP50	SURF	>4000	L	ND	ND	ND	ND	ND	**5800**
	2	800							
	4	640							
	6	240							
	8	240	L	ND	ND	ND	ND	ND	166
SP51	SURF	>4000	L	ND	ND	ND	ND	ND	**29800**
	2	880							
	4	240							
	6	160	L	ND	ND	ND	ND	ND	ND
SP52	SURF	>4000	L	ND	ND	ND	ND	ND	**40200**
	2	320							
	4	240	L	ND	ND	ND	ND	ND	ND
SP53	SURF	>4000	L	ND	ND	ND	ND	ND	**40400**
	2	400							
	4	320	L	ND	ND	ND	ND	ND	234
SP54	SURF	>4000	L	ND	ND	ND	ND	ND	**70100**
	2	800							
	4	160							
	6	160	L	ND	ND	ND	ND	ND	ND
SP55	SURF	>4000	L	ND	ND	ND	ND	ND	**19900**
	2	240							
	4	160	L	ND	ND	ND	ND	ND	ND
SP56	SURF	1440	L	ND	ND	ND	ND	ND	**1170**
	2	160							
	4	160	L	ND	ND	ND	ND	ND	ND
SP57	SURF	>4000	L	ND	ND	ND	ND	ND	**11100**
	2	160							
	4	160	L	ND	ND	ND	ND	ND	ND
SP58	SURF	>4000	L	ND	ND	48.2	ND	48.2	**38000**

	2	3520							
	4	240							
	6	240	L	ND	ND	ND	ND	ND	ND
SP59	SURF	>4000	H	ND	ND	80.1	53.3	133.4	14100
	2	240							
	4	160	L	ND	ND	ND	ND	ND	ND
SP60	SURF	>4000	L	ND	ND	ND	ND	ND	31300
	2	2480							
	4	400							
	6	240							
	8	160	L	ND	ND	ND	ND	ND	ND
SP61	SURF	>4000	L	ND	ND	ND	ND	ND	46300
	2	320							
	4	320							
	6	160							
	8	80	L	ND	ND	ND	ND	ND	ND
SP62	SURF	320	L	ND	ND	ND	ND	ND	ND
	2	240							
	4	160							
	6	160	L	ND	ND	ND	ND	ND	ND
SP63	SURF	>4000	L	ND	ND	ND	ND	ND	33800
	2	960							
	4	640							
	6	240							
	8	160	L	ND	ND	ND	ND	ND	ND
SP64	SURF	>4000	L	ND	ND	27.7	ND	27.7	26200
	2	400							
	4	160							
	6	160	L	ND	ND	ND	ND	ND	ND
SW1	SURF	400	L	ND	ND	ND	ND	ND	396
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND
SW2	SURF	>4000	L	ND	ND	ND	ND	ND	4670

	1	160							
	2	80	L	ND	ND	ND	ND	ND	ND
SW3	SURF	80	L	ND	ND	ND	ND	ND	54.6
	1	240							
	2	160	L	ND	ND	ND	ND	ND	ND
SW4	SURF	80	L	ND	ND	ND	ND	ND	75.9
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND
SW5	SURF	80	L	ND	ND	ND	ND	ND	71.6
	1	240							
	2	160	L	ND	ND	ND	ND	ND	ND
SW6	SURF	80	L	ND	ND	ND	ND	ND	66.2
	1	80							
	2	80	H	ND	ND	800	176	976	ND
	3	160							
	4	160	L	ND	ND	ND	ND	ND	ND
SW7	SURF	80	L	ND	ND	ND	ND	ND	ND
	1	160							
	2	160	H	ND	ND	800	177	977	ND
	3	160							
	4	80	L	ND	ND	ND	ND	ND	ND
SW8	SURF	80	L	ND	ND	ND	ND	ND	38.9
	1	80							
	2	80	L	ND	ND	ND	ND	ND	ND
SW9	SURF	400	L	ND	ND	ND	ND	ND	356
	1	160							
	2	160							
	3	160	L	ND	ND	ND	ND	ND	ND
SW10	SURF	3840	L	ND	ND	ND	ND	ND	4160
	1	160							
	2	80	L	ND	ND	ND	ND	ND	ND
SW11	SURF	2480	L	ND	ND	ND	ND	ND	2760

	1	400							
	2	160	L	ND	ND	ND	ND	ND	54
SW12	SURF	2800	L	ND	ND	ND	ND	ND	**3420**
	1	400							
	2	320	L	ND	ND	ND	ND	ND	ND
SW13	SURF	640	L	ND	ND	ND	ND	ND	507
	1	400							
	2	320	L	ND	ND	ND	ND	ND	204
SW14	SURF	>4000	L	ND	ND	ND	ND	ND	**6890**
	1	400							
	2	400	L	ND	ND	ND	ND	ND	216
SW15	SURF	80	L	ND	ND	ND	ND	ND	95.3
	1	1680							
	2	400							
	3	400	L	ND	ND	ND	ND	ND	333
SW16	SURF	>4000	L	ND	ND	ND	ND	ND	**14100**
	1	400							
	2	400	L	ND	ND	ND	ND	ND	460
SW17	SURF	>4000	L	ND	ND	ND	ND	ND	**25400**
	1	640							
	2	400							
	3	160	L	ND	ND	ND	ND	ND	ND
SW18	SURF	240	L	ND	ND	ND	ND	ND	339
	1	320							
	2	160	L	ND	ND	ND	ND	ND	ND
SW19	SURF	>4000	L	ND	ND	ND	ND	ND	**10200**
	1	400							
	2	240	L	ND	ND	ND	ND	ND	ND
SW20	SURF	80	L	ND	ND	ND	ND	ND	76.6
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND

SW21	SURF	>4000	L	ND	ND	ND	ND	ND	**7750**
	1	400							
	2	400	L	ND	ND	ND	ND	ND	ND
SW22	SURF	160	L	ND	ND	ND	ND	ND	ND
	1	240							
	2	160	L	ND	ND	ND	ND	ND	ND
SW23	SURF	80	L	ND	ND	ND	ND	ND	124
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND
SW24	SURF	>4000	L	ND	ND	ND	ND	ND	**10400**
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND
SW25	SURF	>4000	L	ND	ND	ND	ND	ND	**7320**
	1	400							
	2	320	L	ND	ND	ND	ND	ND	ND
SW26	SURF	80	L	ND	ND	ND	ND	ND	52.6
	1	320							
	2	160	L	ND	ND	ND	ND	ND	ND
SW27	SURF	80	L	ND	ND	ND	ND	ND	33.4
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND
SW28	SURF	>4000	L	ND	ND	ND	ND	ND	**10400**
	1	320							
	2	160	L	ND	ND	ND	ND	ND	ND
SW29	SURF	1600	L	ND	ND	28.4	ND	28.4	444
	1	320							
	2	160	L	ND	ND	ND	ND	ND	ND
SW30	SURF	1520	L	ND	ND	ND	ND	ND	**1370**
	1	320							
	2	160	L	ND	ND	ND	ND	ND	ND
SW31	SURF	>4000	L	ND	ND	ND	ND	ND	**32100**

	1	400							
	2	400	L	ND	ND	ND	ND	ND	411
SW32	SURF	3760	L	ND	ND	ND	ND	ND	**5240**
	1	240							
	2	160	L	ND	ND	ND	ND	ND	125
SW33	SURF	640	L	ND	ND	ND	ND	ND	548
	1	240							
	2	160	L	ND	ND	ND	ND	ND	39
SW34	SURF	>4000	**H**	ND	ND	**79.1**	**107**	**186.1**	**44200**
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND
SW35	SURF	>4000	L	ND	ND	ND	ND	ND	**21000**
	1	240							
	2	160	L	ND	ND	ND	ND	ND	ND
SW36	SURF	>4000	L	ND	ND	30.6	ND	30.6	**25200**
	1	160							
	2	160	L	ND	ND	ND	ND	ND	27.2
SW37	SURF	>4000	L	ND	ND	26.8	63.1	89.9	**8800**
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND
SW38	SURF	>4000	**H**	ND	ND	**42.2**	**58.5**	**100.7**	**30300**
	2	240							
	4	160	L	ND	ND	ND	ND	ND	ND
SW39	SURF	>4000	L	ND	ND	ND	ND	ND	**13900**
	1	400							
	2	240							
	3	160	L	ND	ND	ND	ND	ND	ND
SW40	SURF	160	L	ND	ND	ND	ND	ND	ND
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND
SW41	SURF	80	L	ND	ND	ND	ND	ND	ND

y e te t ere

	1	240							
	2	160							
	3	160	L	ND	ND	ND	ND	ND	ND
SW42	SURF	>4000	L	ND	ND	ND	ND	ND	10600
	1	320							
	2	160							
	3	160	L	ND	ND	ND	ND	ND	56.2
SW43	SURF	80	L	ND	ND	ND	ND	ND	ND
	1	240							
	2	160	L	ND	ND	ND	ND	ND	ND
SW44	SURF	>4000	L	ND	ND	ND	ND	ND	29700
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND

The total impact area of the release measured at the surface as 22,187 sq. ft. Due to lines in the area, a hydrovac was used beginning on November 28th to spot lines in the area for delineation and future excavation. The contaminated soil extracted during this process was hauled to Gandy Marley Landfarm/Landfill with the Approved Facility ID of FEEM0112338393, located at Section 4, Township 11S and Range 31E, Chaves County, New Mexico. ESS has retained all manifests and truck load documentation for records of both the hydrovac disposal as well as the contaminated soil excavated from the impact zone. On January 3rd of 2024, ESS began the remediation phase of the project at the WM Spill 1. Please see impact map attached.

The contaminated soil was excavated and transferred to a staging area for easy access during loading leading to less ground disturbance in the pasture area. Belly Dumps and Dump Trucks were then loaded and the contaminated soil was hauled to Gandy's for disposal. A total of 5,958 cy of contaminated/impacted soil was excavated, a total of 4,984 cy of clean backfill was also loaded and backhauled from Gandy Marley Landfarm/Landfill.

On March 7th, a final geo-measure was obtained from the excavation area. A composite notification was uploaded to the NMOCD portal on February 1st with the request to begin composites on February 5th of 2024. A total of 126 bottom hole composites were obtained, field evaluated and sent to Envirotech Laboratories along with 120 sidewall composites. Please find the sample data sheet, GPS and final lab analysis attached herein. Please find the composite notification email attached, along with the Composite Sample Date,

associated labs, and Composite GPS Sheet, along with the composite map. Below you will find the composite data:

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
COMP1	2	160	L	ND	ND	ND	ND	ND	ND
COMP2	2	160	L	ND	ND	ND	ND	ND	ND
COMP3	2	160	L	ND	ND	ND	ND	ND	ND
COMP4	2	160	L	ND	ND	ND	ND	ND	ND
COMP5	2	160	L	ND	ND	ND	ND	ND	ND
COMP6	2	160	L	ND	ND	ND	ND	ND	ND
COMP7	2	160	L	ND	ND	ND	ND	ND	ND
COMP8	2	160	L	ND	ND	ND	ND	ND	ND
COMP9	2	160	L	ND	ND	ND	ND	ND	ND
COMP10	2	160	L	ND	ND	ND	ND	ND	ND
COMP11	2	160	L	ND	ND	ND	ND	ND	ND
COMP12	2	160	L	ND	ND	ND	ND	ND	ND
COMP13	2	160	L	ND	ND	ND	ND	ND	ND
COMP14	2	160	L	ND	ND	ND	ND	ND	ND
COMP15	2	160	L	ND	ND	ND	ND	ND	ND
COMP16	2	160	L	ND	ND	ND	ND	ND	ND
COMP17	2	160	L	ND	ND	ND	ND	ND	ND
COMP18	2	160	L	ND	ND	ND	ND	ND	ND
COMP19	2	160	L	ND	ND	ND	ND	ND	ND

COMP20	2	160	L	ND	ND	ND	ND	ND	ND
COMP21	4	160	L	ND	ND	ND	ND	ND	ND
COMP22	4	160	L	ND	ND	ND	ND	ND	ND
COMP23	6	160	L	ND	ND	ND	ND	ND	ND
COMP24	6	160	L	ND	ND	ND	ND	ND	ND
COMP25	8	160	L	ND	ND	ND	ND	ND	ND
COMP26	8	160	L	ND	ND	ND	ND	ND	ND
COMP27	8	160	L	ND	ND	ND	ND	ND	ND
COMP28	8	160	L	ND	ND	ND	ND	ND	ND
COMP29	6	160	L	ND	ND	ND	ND	ND	ND
COMP30	4	160	L	ND	ND	ND	ND	ND	ND
COMP31	4	320	L	ND	ND	ND	ND	ND	110
COMP32	4	240	L	ND	ND	ND	ND	ND	ND
COMP33	4	400	L	ND	ND	ND	ND	ND	219
COMP34	4	320	L	ND	ND	ND	ND	ND	ND
COMP35	4	320	L	ND	ND	ND	ND	ND	ND
COMP36	4	480	L	ND	ND	ND	ND	ND	198
COMP37	4	400	L	ND	ND	ND	ND	ND	102
COMP38	4	320	L	ND	ND	ND	ND	ND	ND
COMP39	4	400	L	ND	ND	ND	ND	ND	ND

Sincerely,

Director of Environmental and Regulatory Services
Energy Staffing Services, LLC.
2724 NW County Road

COMP40	4	320	L	ND	ND	ND	ND	ND	ND
COMP41	4	320	L	ND	ND	ND	ND	ND	ND
COMP42	4	480	L	ND	ND	ND	ND	ND	ND
COMP43	4	320	L	ND	ND	ND	ND	ND	ND
COMP44	4	240	L	ND	ND	ND	ND	ND	ND
COMP45	4	320	L	ND	ND	ND	ND	ND	ND
COMP46	4	80	L	ND	ND	ND	ND	ND	ND
COMP47	4	80	L	ND	ND	ND	ND	ND	ND
COMP48	4	80	L	ND	ND	ND	ND	ND	ND
COMP49	4	80	L	ND	ND	ND	ND	ND	ND
COMP50	4	80	L	ND	ND	ND	ND	ND	146
COMP51	4	80	L	ND	ND	ND	ND	ND	160
COMP52	4	80	L	ND	ND	ND	ND	ND	151
COMP53	4	80	L	ND	ND	ND	ND	ND	147
COMP54	4	80	L	ND	ND	ND	ND	ND	ND
COMP55	4	80	L	ND	ND	ND	ND	ND	ND
COMP56	6	80	L	ND	ND	ND	ND	ND	52.1
COMP57	4	80	L	ND	ND	ND	ND	ND	ND
COMP58	4	80	L	ND	ND	ND	ND	ND	ND
COMP59	4	80	L	ND	ND	ND	ND	ND	ND
COMP60	4	80	L	ND	ND	ND	ND	ND	ND

COMP61	4	80	L	ND	ND	ND	ND	ND	ND
COMP62	4	80	L	ND	ND	ND	ND	ND	148
COMP63	4	80	L	ND	ND	ND	ND	ND	145
COMP64	4	80	L	ND	ND	ND	ND	ND	144
COMP65	4	80	L	ND	ND	ND	ND	ND	140
COMP66	4	80	L	ND	ND	ND	ND	ND	ND
COMP67	4	80	L	ND	ND	ND	ND	ND	ND
COMP68	4	80	L	ND	ND	ND	ND	ND	ND
COMP69	4	80	L	ND	ND	ND	ND	ND	142
COMP70	6	80	L	ND	ND	ND	ND	ND	58.3
COMP71	6	80	L	ND	ND	ND	ND	ND	24.7
COMP72	6	80	L	ND	ND	ND	ND	ND	29.9
COMP73	4	80	L	ND	ND	ND	ND	ND	ND
COMP74	4	80	L	ND	ND	ND	ND	ND	ND
COMP75	4	80	L	ND	ND	ND	ND	ND	ND
COMP76	4	80	L	ND	ND	ND	ND	ND	ND
COMP77	4	80	L	ND	ND	ND	ND	ND	ND
COMP78	4	80	L	ND	ND	ND	ND	ND	ND
COMP79	4	80	L	ND	ND	ND	ND	ND	ND
COMP80	4	80	L	ND	ND	ND	ND	ND	ND

COMP81	8	80	L	ND	ND	ND	ND	ND	132
COMP82	8	80	L	ND	ND	ND	ND	ND	123
COMP83	8	80	L	ND	ND	ND	ND	ND	ND
COMP84	8	80	L	ND	ND	ND	ND	ND	ND
COMP85	8	80	L	ND	ND	ND	ND	ND	ND
COMP86	8	80	L	ND	ND	ND	ND	ND	103
COMP87	8	80	L	ND	ND	ND	ND	ND	41.9
COMP88	8	80	L	ND	ND	ND	ND	ND	ND
COMP89	8	80	L	ND	ND	ND	ND	ND	ND
COMP90	8	80	L	ND	ND	ND	ND	ND	ND
COMP91	8	80	L	ND	ND	ND	ND	ND	ND
COMP92	8	80	L	ND	ND	ND	ND	ND	ND
COMP93	8	80	H	ND	ND	66.5	ND	66.5	ND
COMP93A	10	80	L	ND	ND	ND	ND	ND	50.4
COMP94	8	80	H	ND	ND	68.9	ND	68.9	ND
COMP94A	10	80	L	ND	ND	ND	ND	ND	50.5
COMP95	8	80	L	ND	ND	ND	ND	ND	109
COMP96	8	80	L	ND	ND	ND	ND	ND	106
COMP97	8	160	L	ND	ND	ND	ND	ND	129
COMP98	8	80	L	ND	ND	ND	ND	ND	ND
COMP99	8	80	L	ND	ND	ND	ND	ND	ND
COMP100	8	80	L	ND	ND	ND	ND	ND	104

COMP101	8	80	H	ND	ND	67.1	ND	67.1	ND
COMP101A	10	80	L	ND	ND	ND	ND	ND	52.5
COMP102	8	80	L	ND	ND	ND	ND	ND	ND
COMP103	8	80	L	ND	ND	ND	ND	ND	ND
COMP104	8	80	L	ND	ND	ND	ND	ND	ND
COMP105	8	80	L	ND	ND	ND	ND	ND	ND
COMP106	8	80	L	ND	ND	ND	ND	ND	ND
COMP107	8	80	L	ND	ND	ND	ND	ND	ND
COMP108	8	80	L	ND	ND	ND	ND	ND	ND
COMP109	8	80	L	ND	ND	ND	ND	ND	ND
COMP110	8	80	L	ND	ND	ND	ND	ND	ND
COMP111	8	80	L	ND	ND	ND	ND	ND	ND
COMP112	8	80	L	ND	ND	ND	ND	ND	ND
COMP113	8	80	L	ND	ND	ND	ND	ND	ND
COMP114	8	80	L	ND	ND	ND	ND	ND	ND
COMP115	8	80	L	ND	ND	ND	ND	ND	ND
COMP116	8	80	L	ND	ND	ND	ND	ND	ND
COMP117	8	80	L	ND	ND	ND	ND	ND	ND
COMP118	8	80	L	ND	ND	ND	ND	ND	ND
COMP119	8	80	L	ND	ND	ND	ND	ND	ND
COMP120	2	320	L	ND	ND	ND	ND	ND	479

COMP121	2	320	L	ND	ND	ND	ND	ND	222
COMP122	2	240	L	ND	ND	ND	ND	ND	ND
COMP123	2	320	L	ND	ND	ND	ND	ND	ND
COMP124	2	320	L	ND	ND	ND	ND	ND	ND
COMP125	2	320	L	ND	ND	ND	ND	ND	251
COMP126	2	320	L	ND	ND	ND	ND	ND	491
SW COMP 1	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 2	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 3	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 4	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 5	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 6	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 7	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 8	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 9	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 10	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 11	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 12	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 13	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 14	2	80	L	ND	ND	ND	ND	ND	ND

SW COMP 15	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 16	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 17	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 18	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 19	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 20	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 21	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 22	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 23	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 24	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 25	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 26	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 27	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 28	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 29	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 30	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 31	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 32	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 33	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 34	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 35	2	80	L	ND	ND	ND	ND	ND	ND

SW COMP 36	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 38	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 39	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 40	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 41	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 42	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 43	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 44	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 45	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 46	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 47	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 48	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 49	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 50	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 51	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 52	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 53	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 54	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 55	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 56	2	80	L	ND	ND	ND	ND	ND	ND

SW COMP 57	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 58	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 59	2	80	H	ND	ND	55.2	ND	55.2	ND
SW COMP 59A	3	80	L	ND	ND	ND	ND	ND	26.2
SW COMP 60	2	80	H	ND	ND	51.9	ND	51.9	ND
SW COMP 60A	3	80	L	ND	ND	ND	ND	ND	25.9
SW COMP 61	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 62	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 63	2	80	L	ND	ND	ND	ND	ND	ND
SW COMP 64	2	80	L	ND	ND	ND	ND	ND	84
SW COMP 65	2	80	L	ND	ND	ND	ND	ND	80.1
SW COMP 66	2	80	L	ND	ND	ND	ND	ND	83
SW COMP 67	2	80	L	ND	ND	ND	ND	ND	149
SW COMP 68	2	80	L	ND	ND	ND	ND	ND	86.1
SW COMP 69	2	80	L	ND	ND	ND	ND	ND	89.6
SW COMP 70	2	80	L	ND	ND	ND	ND	ND	81.6
SW COMP 71	2	80	L	ND	ND	ND	ND	ND	84.9
SW COMP 72	2	80	L	ND	ND	ND	ND	ND	41.3
SW COMP 73	2	80	L	ND	ND	ND	ND	ND	41.4
SW COMP 74	2	80	L	ND	ND	ND	ND	ND	40
SW COMP 75	2	80	L	ND	ND	ND	ND	ND	89.6
SW COMP 76	2	80	L	ND	ND	ND	ND	ND	82.1

SW COMP 77	2	80	L	ND	ND	ND	ND	ND	83.4
SW COMP 78	2	80	L	ND	ND	ND	ND	ND	85
SW COMP 79	2	80	L	ND	ND	ND	ND	ND	83.5
SW COMP 80	2	80	L	ND	ND	ND	ND	ND	80.6
SW COMP 81	2	80	L	ND	ND	ND	ND	ND	85.6
SW COMP 82	2	80	L	ND	ND	ND	ND	ND	38.1
SW COMP 83	2	80	L	ND	ND	ND	ND	ND	38.5
SW COMP 84	2	80	L	ND	ND	ND	ND	ND	89.4
SW COMP 85	2	80	L	ND	ND	ND	ND	ND	86
SW COMP 86	2	80	L	ND	ND	ND	ND	ND	86.8
SW COMP 87	2	80	L	ND	ND	ND	ND	ND	89.3
SW COMP 88	4	80	L	ND	ND	ND	ND	ND	ND
SW COMP 89	4	80	L	ND	ND	ND	ND	ND	ND
SW COMP 90	4	80	L	ND	ND	ND	ND	ND	98.6
SW COMP 91	4	80	L	ND	ND	ND	ND	ND	99.6
SW COMP 92	4	80	L	ND	ND	ND	ND	ND	95.3
SW COMP 93	4	80	L	ND	ND	ND	ND	ND	ND
SW COMP 94	4	80	L	ND	ND	ND	ND	ND	98.3
SW COMP 95	6	80	L	ND	ND	ND	ND	ND	ND
SW COMP 96	6	240	L	ND	ND	ND	ND	ND	ND

SW COMP 97	6	240	L	ND	ND	ND	ND	ND	ND
SW COMP 98	6	240	L	ND	ND	ND	ND	ND	ND
SW COMP 99	6	160	L	ND	ND	ND	ND	ND	ND
SW COMP 100	6	160	L	ND	ND	ND	ND	ND	161
SW COMP 101	8	80	L	ND	ND	ND	ND	ND	95.3
SW COMP 102	8	80	L	ND	ND	ND	ND	ND	102
SW COMP 103	8	160	L	ND	ND	ND	ND	ND	151
SW COMP 104	8	160	L	ND	ND	ND	ND	ND	166
SW COMP 105	10	160	L	ND	ND	ND	ND	ND	104
SW COMP 106	10	160	L	ND	ND	ND	ND	ND	101
SW COMP 107	10	240	L	ND	ND	ND	ND	ND	102
SW COMP 108	10	240	L	ND	ND	ND	ND	ND	189
SW COMP 109	10	160	L	ND	ND	ND	ND	ND	ND
SW COMP 110	10	160	L	ND	ND	ND	ND	ND	ND
SW COMP 111	12	240	L	ND	ND	ND	ND	ND	179
SW COMP 112	12	240	L	ND	ND	ND	ND	ND	190
SW COMP 113	12	80	L	ND	ND	ND	ND	ND	ND
SW COMP 114	12	80	L	ND	ND	ND	ND	ND	ND
SW COMP 115	12	80	L	ND	ND	ND	ND	ND	ND
SW COMP 116	12	160	L	ND	ND	ND	ND	ND	148
SW COMP 117	12	160	L	ND	ND	ND	ND	ND	162

SW COMP 118	4	80	L	ND	ND	ND	ND	ND	ND
SW COMP 119	4	80	L	ND	ND	ND	ND	ND	99.2
SW COMP 120	4	80	L	ND	ND	ND	ND	ND	98.9

On June 25th of 2024, ESS began transporting backfill that was previously stagged and stockpiled over to the excavation site and the excavation was then backfilled. On December 19th, 2024 Mack Energy (Bullseye) hauled in topsoil from a local pit to finish out the final closing of the remediation of the West Mount Spill #1 that occurred on 09/08/2023. This release incident number is NAPP2325464608. A total of 1191.6 cy of topsoil was loaded and hauled to site. On December 20th of 2024; ESS arrived on site to spread out the topsoil and ripped the area of impact and total disturbance, giving a total of 6" of material for seeding to take hold. Using the NMSLO seed mixture for loamy soil, the seed was hand broadcasted over the excavated, backfilled and entire disturbed area. The area was then ripped a second time to ensure seed was buried and will hold in place for future regrowth of the natural lay of the land. The site was completed on December 30, 2024.

Closure Request

On behalf of Mack Energy Corporation, ESS requests that the incident (NAPP2325464608) that occurred on September 8th, 2023 be closed for the produced water release that occurred in the pasture area. Mack Energy and ESS certify that all the information detailed in this report and attached herein, 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 #1.

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

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

Natalie Gladden

From: Natalie Gladden
Sent: Friday, September 22, 2023 4:12 PM
To: ocdonline, emnrd, EMNRD; Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD; Velez, Nelson, EMNRD; CFO_Spill, BLM_NM; Amos, James A; 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	-104.09253	
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	

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

Natalie Gladden

From: Natalie Gladden
Sent: Tuesday, September 26, 2023 2:39 PM
To: ocdonline, emnrd, EMNRD; Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD; Velez, Nelson, EMNRD; CFO_Spill, BLM_NM; Amos, James A; staylor@blm.gov
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	-104.09253	
WEST MOUNT 1B	341.08	0	32.97878	-104.090782	
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WEST MOUNT SPILL H	32.78	0	32.98947	-104.069673	
WEST MOUNT SPILL I	5.55	0	32.977062	-104.07104	
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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

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 NM 88210**	

Location of Release Source

Latitude **32.978491** Longitude **-104.094969**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name **WESTMOUNT #1**	Site Type **PRODUCTION AREA**
Date Release Discovered **9/8/2023**	API# *(if applicable)* ***30-005-64381***

Unit Letter	Section	Township	Range	County
M	**27**	**15S**	**28E**	**CHAVES**

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) **96.64**	Volume Recovered (bbls)0BBLS
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The water transfer company Well Spring found a failure on their lay flat line, releasing the fluid to the pasture area and lease road, covering approximately 35,000 sq. ft. of surface.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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**
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? **Email was sent was sent to the OCD, Bratcher, Hamlet, Venegas, Griswold on 9/9 at 12:31pm**	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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.

Printed Name: **NATALIE GLADDEN** Title: **DIRECTOR OF ENVIRONMENTAL AND REGULATORY**

Signature: Natalie Gladden Date: 9/11/23

email: **natalie@energystaffingll.com** Telephone: **575-390-6397**

OCD Only

Received by: _____ Date: _____

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	10	10	0.083	8.3	0.37	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	498.6	65.5	0.083	2710.6389	96.64	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*
0.581	**0.664**	**0.750**	**0.830**	**0.913**	**1.000**

NOTE: This is an **estimate** tool designed for quick field estimates of whether a C-141 should be requred *(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)

Natalie Gladden

From: OCDOnline@state.nm.us
Sent: Monday, September 11, 2023 5:57 PM
To: Natalie Gladden
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 264073

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

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2325464608, with the following conditions:

- **When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.**

Please reference nAPP2325464608, on all subsequent C-141 submissions and communications regarding the remediation of this release.
NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.
If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

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

Natalie Gladden

From: OCDOnline@state.nm.us
Sent: Tuesday, September 12, 2023 9:40 AM
To: Natalie Gladden
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 264074

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

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2325464608,
with the following conditions:

- **None**

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

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

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

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

INITIAL PHOTOS

September 13, 2023 at 15:09
Mack Energy
West Mount #1
Spill Assessment

Mack Energy
West Mount #1
Frac line spill.

September 21, 2023 at 08:42
+32.978480,-104.095295
Mack Energy
West Mount #1
Frac line spill

September 21, 2023 at 08:45
Mack Energy
West Mount #1
Frac line spill

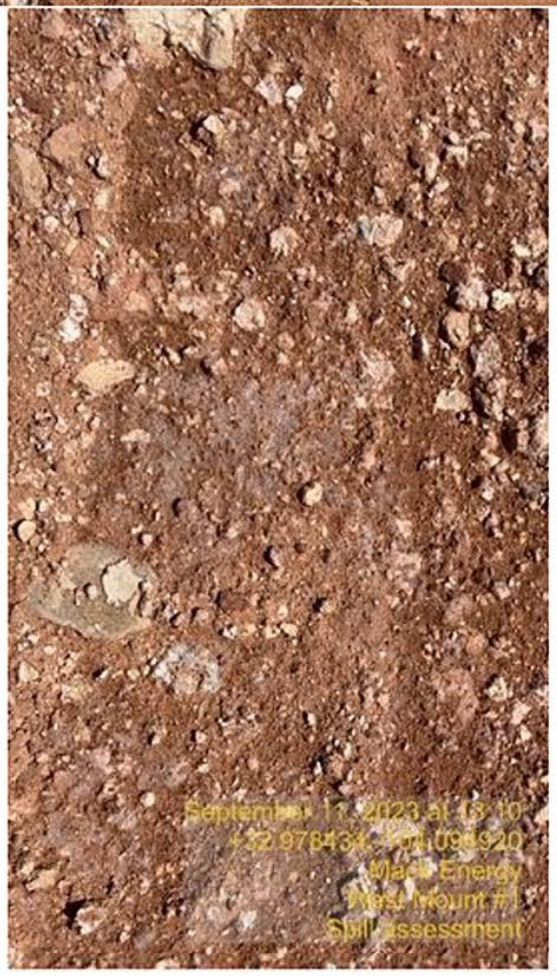
September 21, 2023 at 08:46
+32.978449,-104.096151
Mack Energy
West Mount #1
Frac line spill

September 11, 2023 at 12:48
+32.978170,-104.081080
United States
Mack Energy
West Mount #1
Spill assessment

September 11, 2023 at 12:48
+32.978490 -104.095066
Mack Energy
West Mount #1
Spill assessment
September 11, 2023 at 12:55
+32.978488 -104.095675
United States
Mack Energy
West Mount #1
Spill assessment

September 11, 2023 at 13:09
+32.978379, -104.094644
Mack Energy
West Mount #1
Spill assessment
September 11, 2023 at 13:09
Mack Energy
West Mount #1
Spill assessment

September 11, 2023 at 13:09
+32.978520, -101.994842
Mack Energy
West Mount #1
Spill Assessment


September 11, 2023 at 13:10
+32.978434, -101.993920
Mack Energy
West Mount #1
Spill Assessment

September 11, 2023 at 13:10
+32.978434, -104.094920
Mack Energy
West Mount #1
Spill assessment

September 11, 2023 at 13:10
+32.978434, -104.094920
Mack Energy
West Mount #1
Spill assessment

September 11, 2023 at 14:14
+32.978477, -104.094805
Mack Energy
West Mount #1
Spill assessment

Mack Energy
West Mount #1
Spill assessment

September 11, 2023 at 14:15
+32.978502, -104.094672
Mack Energy
West Mount #1
Spill assessment

September 11, 2023 at 14:15
+32.978502, -104.094672
Mack Energy
West Mount #1
Spill assessment

September 11, 2023 at 14:18
+32.978512, -104.095215
United States
Mack Energy
West Mount #1
Spill assessment

September 11, 2023 at 14:18
+32.978512, -104.095215
United States
Mack Energy
West Mount #1
Spill assessment

September 11, 2023 at 14:17
+32.978486,-104.095782
United States
Mack Energy
West Mount #1
Spill assessment

September 11, 2023 at 14:18
+32.978486,-104.095782
United States
Mack Energy
West Mount #1
Spill assessment

September 11, 2023 at 14:18
+32.978529, -104.096123
United States
Mack Energy
West Mount #1
Spill assessment

September 11, 2023 at 14:19
+32.978494, -104.096239
United States
Mack Energy
West Mount #1
Spill assessment

September 13, 2023 at 15:01
+32.978559,-104.095128
Mack Energy
West Mount #1
Spill Assessment

September 13, 2023 at 15:01
+32.978559,-104.095128
Mack Energy
West Mount #1
Spill Assessment

September 21, 2023 at 08:38
+32.978471, -104.096490
United States
Mack Energy
West Mount #1
Frac line spill

September 11, 2023 at 13:10
Mack Energy
West Mount #1
Spill assessment

MACK ENERGY

WEST MOUNT SPILL 1
SITE MAP

Legend

WEST MOUNT 1 RELEASE

WEST MOUNT 1 RELEASE

Google Earth

Released to Imaging: 7/7/2025 2:18:32 PM

Image © 2024 Airbus

N

100 ft

Received by OCD: 5/14/2025 8:53:25 AM

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.

Released to Imaging: 7/7/2025 2:18:32 PM

Received by OCD: 5/14/2025 8:53:25 AM

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.

Released to Imaging: 7/7/2025 2:18:32 PM

Received by OCD: 5/14/2025 8:53:25 AM

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 name	Ecological Site, Plant Association, or Habitat Type	Total dry-weight production			Characteristic rangeland or forest understory vegetation	Composition		
		Favorable year	Normal year	Unfavorable year			Rangeland	Forest understory
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct dry wt*	*Pct dry wt*	
Aa—Alama loam								
Alama	Loamy (R070BC007NM)	1,200	—	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		

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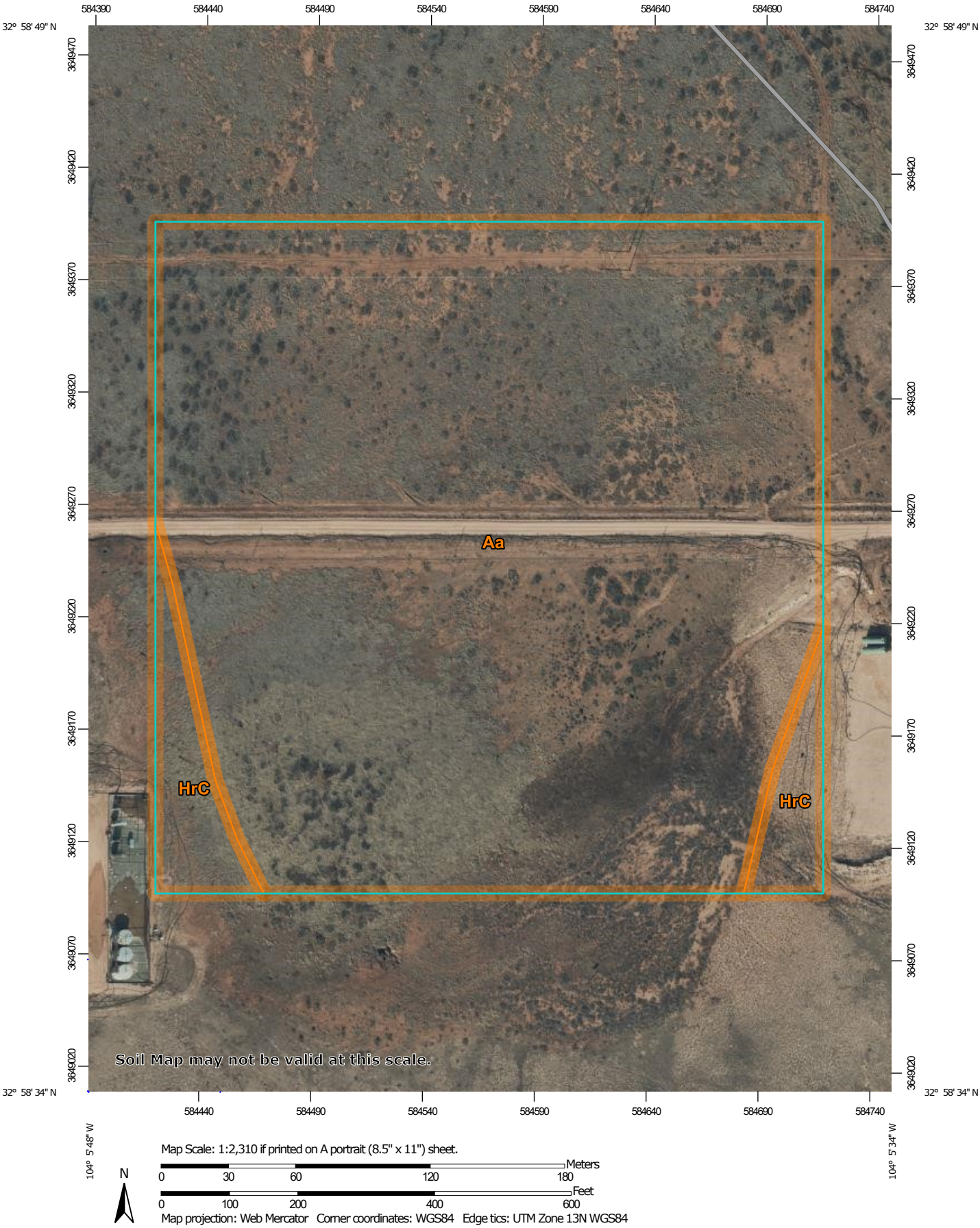
Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition–Chaves County, New Mexico, Southern Part								
Map unit symbol and soil name	**Ecological Site, Plant Association, or Habitat Type**	**Total dry-weight production**			**Characteristic rangeland or forest understory vegetation**	**Composition**		
		Favorable year	**Normal year**	**Unfavorable year**			**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 (R070BB006NM)	800	600	375	alkali sacaton	45		
					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

Released to Imaging: 7/7/2025 2:18:32 PM

Soil Map—Chaves County, New Mexico, Southern Part
(WESTMOUNT #1)



Map Scale: 1:2,310 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 30 60 120 180

Feet
0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

Received by OCD: 5/14/2025 8:53:25 AM

Soil Map—Chaves County, New Mexico, Southern Part
(WESTMOUNT #1)

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
- 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 scale.

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.

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Aa	Alama loam	20.7	93.5%
HrC	Holloman-Gypsum land complex, 3 to 5 percent slopes	1.4	6.5%
Totals for Area of Interest		**22.1**	**100.0%**

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National Flood Hazard Layer FIRMette

FEMA

104°6'1"W 32°58'58"N

104°5'23"W 32°58'28"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage 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*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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 12:03 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.

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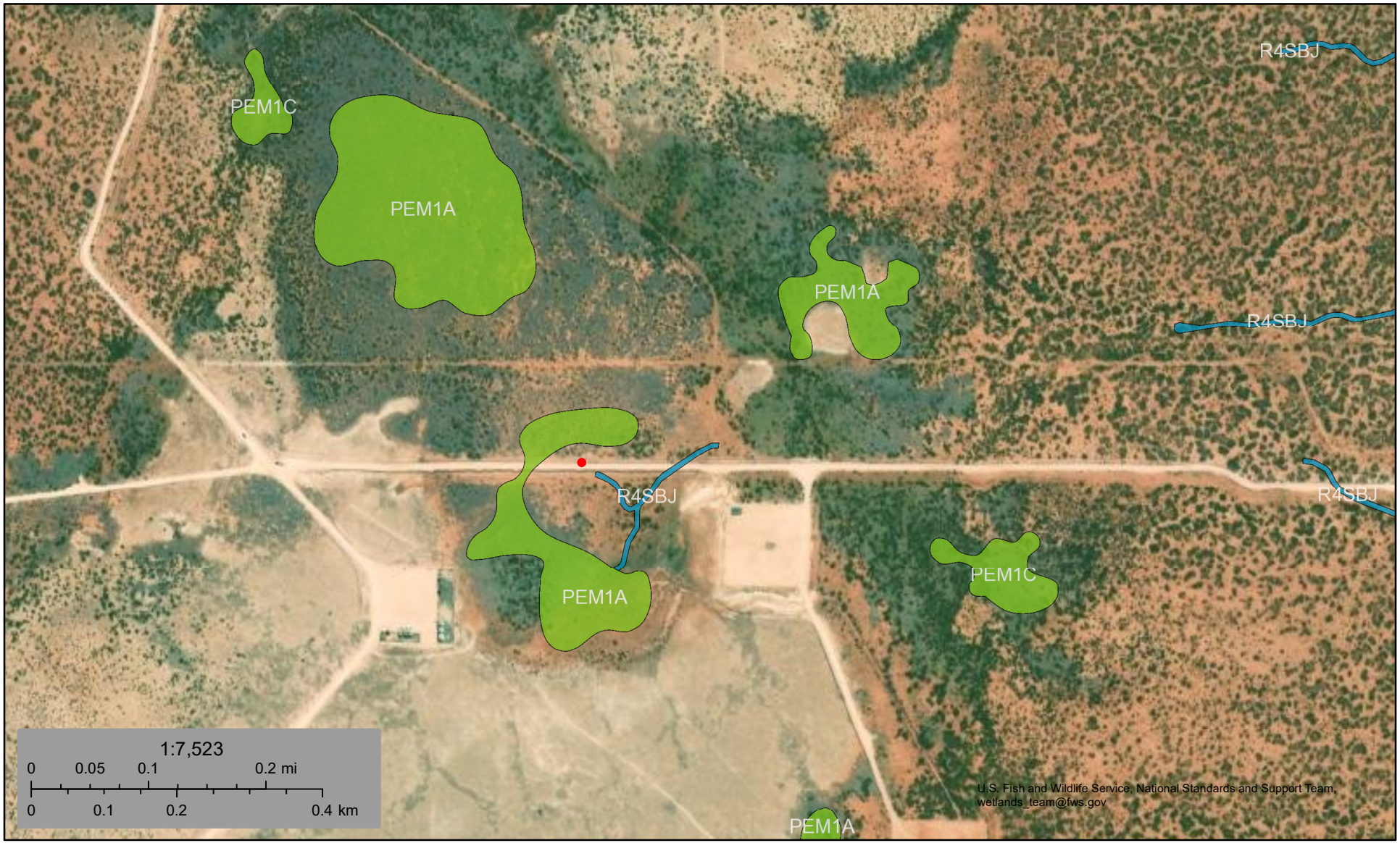
Received by OCD: 5/14/2025 8:53:25 AM

U.S. Fish and Wildlife Service
National Wetlands Inventory

West Mount 1 Wetlands map



July 7, 2025

Wetlands

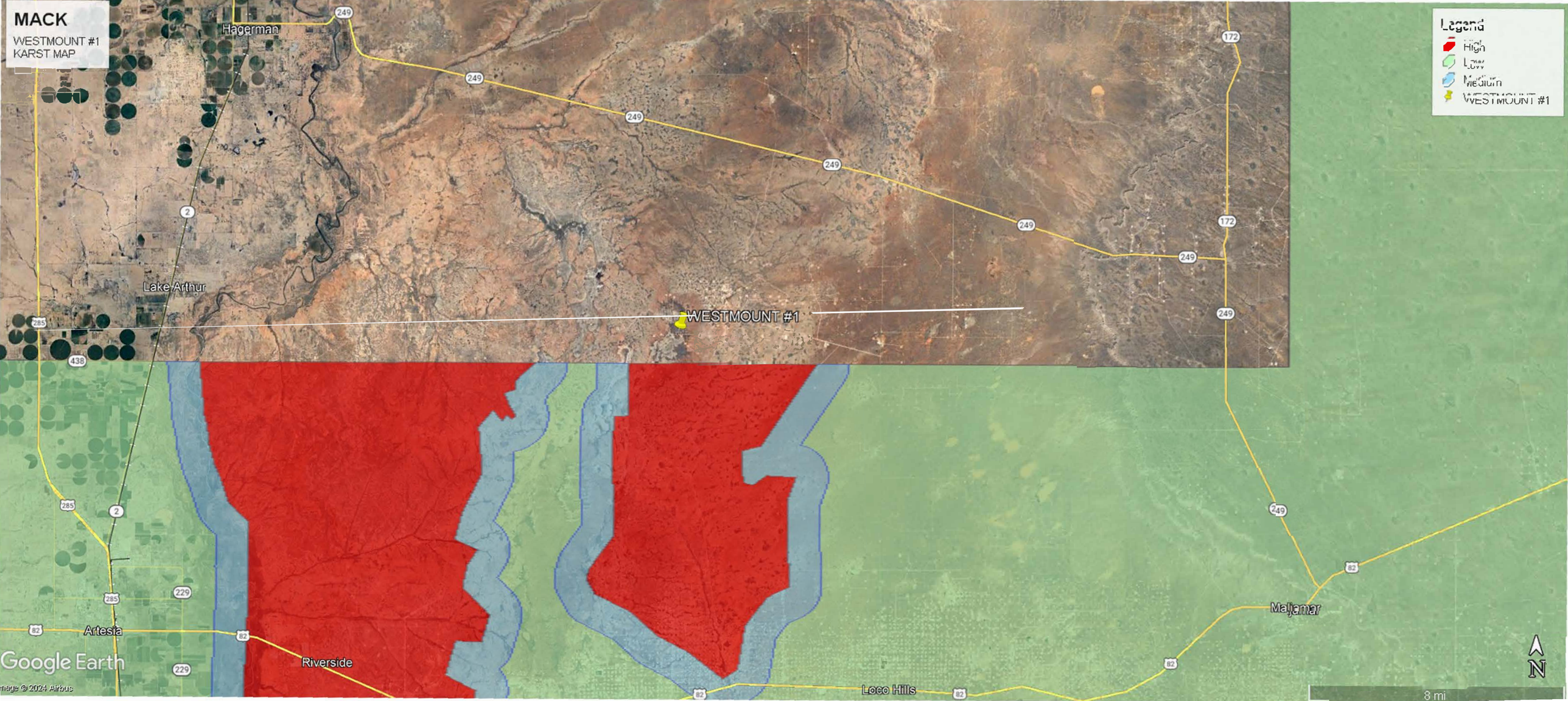
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

● - Release point

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Released to Imaging: 7/7/2025 2:18:32 PM


MACK
WESTMOUNT #1
KARST MAP
Legend
High
Low
Medium
WESTMOUNT #1
Hagerman
Lake Arthur
WESTMOUNT #1
Artesia
Riverside
Loco Hills
Maljamar
Google Earth
8 mi
N

MACK
WESTMOUNT #1
GROUNDWATER MAP
Legend
RA09059-7,406-35 FT
RA09248-6,888-45 FT
RA10280-6,959-40 FT
RA12428-5,020-125 FT
RA12429 POD1-5,541-27 FT
WESTMOUNT #1
RA09059-7,406-35 FT
RA09248-6,888-45 FT
RA10280-6,959-40 FT
RA12428-5,020-125 FT
WESTMOUNT #1
RA12429 POD1-5,541-27 FT
N
1 mi
Google Earth

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

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 584566.18 **Northing (Y):** 3649266 **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.

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

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 584566.18 **Northing (Y):** 3649266 **Radius:** 5000

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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)

POD Number	POD Sub-basin Code	County	Source	q 6416	q 4	q	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
RA 12428	RA	CH	Shallow	4	2	1	21	15S	28E	580579	3652317	5020	07/28/2016	08/04/2016	08/08/2016	170	125	DONALD KUEHN III	1058
RA 12429 POD1	RA	CH	Shallow	1	1	4	32	15S	28E	579093	3648401	5541	11/17/2016	11/17/2016	11/28/2016	62	27	EADES, ALAN	1044
RA 09248	RA	CH	Shallow	1	4	3	17	15S	28E	578704	3652884*	6888	07/10/1996	07/13/1996	07/25/1996	150	45	RAYMOND ANDERSON	1344
RA 10280	RA	CH	Shallow	4	3	3	17	15S	28E	578501	3652680*	6959	06/20/2002	07/15/2002	04/23/2003	70	40	CARREON, FERNANDO	1490
RA 09059	RA	CH	Shallow	2	4	4	18	15S	28E	578099	3652875*	7406	11/13/1995	01/15/1996	02/08/1997	110	35	RAYMOND ANDERSON	1344
RA 09342	RA	ED	Shallow	4	4	3	19	16S	29E	582737	3640640*	8817	05/02/1998	05/03/1998	05/08/1998	220	110	DELFORD MARTIN	1064
RA 05736	RA	CH	Shallow	3	2	1	24	15S	27E	575467	3652244*	9574			04/30/1973				

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 584566.18 **Northing (Y):** 3649266 **Radius:** 10000

***UTM location was derived from PLSS - see Help**

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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 Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	RA 08333		NW	NE	26	15S	28E	584050.0	3650815.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	Driller Company:	
Driller Name:		
Drill Start Date:	Drill Finish Date:	Plug Date:
Log File Date:	PCW Rcv Date:	Source:
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well:	Depth Water:

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.

12/11/24 2:39 PM MST Point of Diversion Summary

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New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	RA 09059	2	4	4	18	15S	28E	578099	3652875*

Driller License:	1344	**Driller Company:**	ANDERSON, RAYMOND		
Driller Name:	RAYMOND ANDERSON				
Drill Start Date:	11/13/1995	**Drill Finish Date:**	01/15/1996	**Plug Date:**	
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

***UTM location was derived from PLSS - see Help**

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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: 07/25/1996 **PCW Rcv Date:** **Source:** Shallow
Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 2 GPM
Casing Size: 4.50 **Depth Well:** 150 feet **Depth Water:** 45 feet

Water Bearing Stratifications:	Top	Bottom	Description
	50	60	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	45	100

***UTM location was derived from PLSS - see Help**

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New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	RA 10280	4	3	3	17	15S	28E	578501	3652680*

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	**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

***UTM location was derived from PLSS - see Help**

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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 12428	4	2	1	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 **Drill Finish Date:** 08/04/2016 **Plug Date:**

Log File Date: 08/08/2016 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 15 GPM

Casing Size: 4.50 **Depth Well:** 170 feet **Depth Water:** 125 feet

Water Bearing Stratifications:	Top	Bottom	Description
	125	140	Sandstone/Gravel/Conglomerate
	140	160	Sandstone/Gravel/Conglomerate
	160	170	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	125	170

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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 12429 POD1	1	1	4	32	15S	28E	579093	3648401

Driller License:	1044	**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:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	5.13	**Depth Well:**	62 feet	**Depth Water:**	27 feet

Water Bearing Stratifications:	Top	Bottom	Description
	27	33	Sandstone/Gravel/Conglomerate
	33	62	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	22	62

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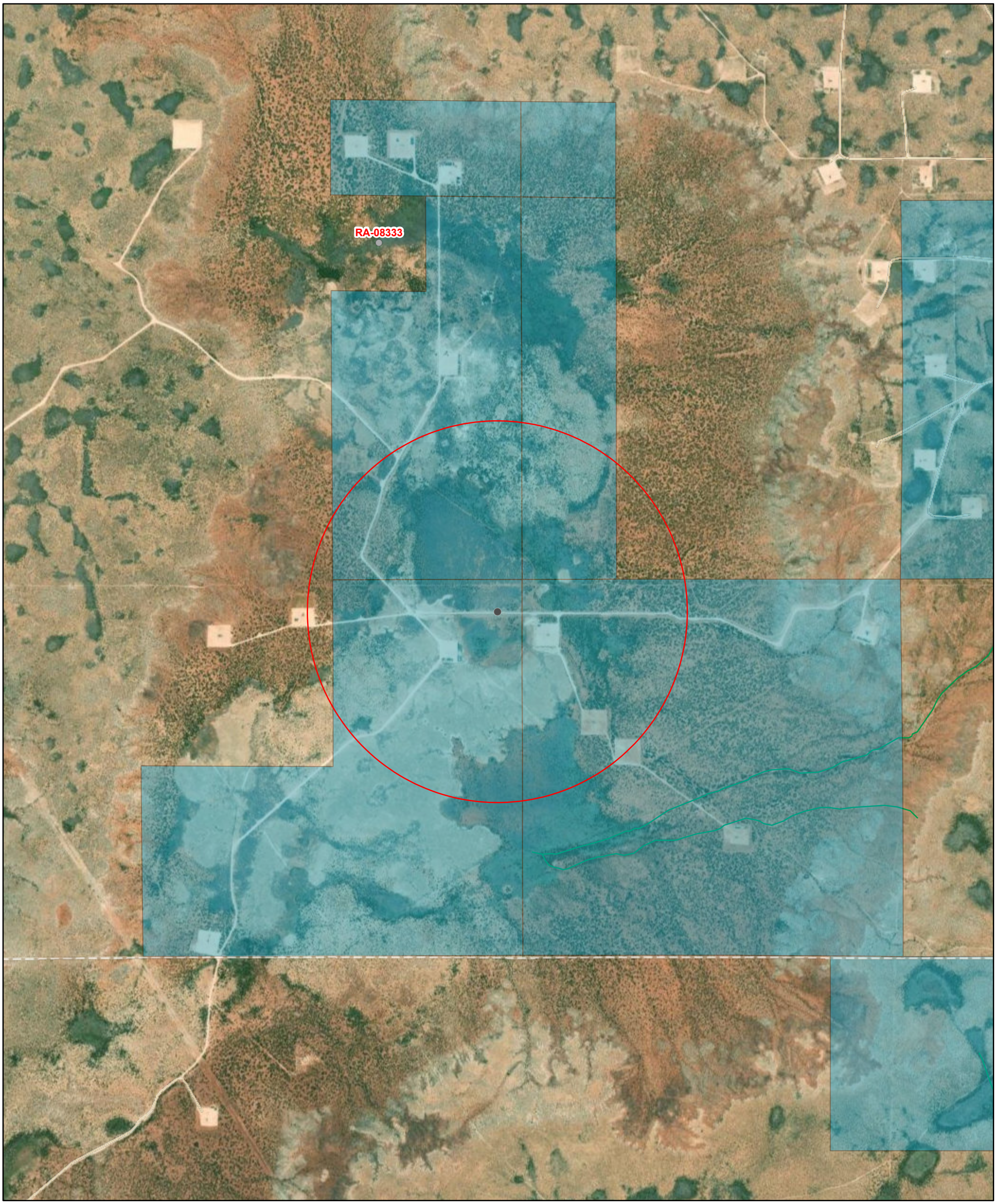
OSE POD Location Map



12/11/2024, 2:35:26 PM

GIS WATERS PODs

GIS WATERS PODs

OSE District Boundary

New Mexico State Trust Lands

Both Estates

NHD Flowlines

Stream River

1:18,056

0 0.17 0.35 0.7 mi

0 0.28 0.55 1.1 km

Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar

Online web user

This is an unofficial map from the OSE's online application.

Company Name: MACK **Location Name:** WEST MOUNT #1 **Release Date:** 9/8/2023

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil	Notes
SP1	SURF	>4000	L	ND	ND	ND	ND	ND	6090		
	2	>4000									
	4	320									
	6	400									
	8	240	L	ND	ND	ND	ND	ND	ND		
SP2	SURF	480	L	ND	ND	ND	ND	ND	433		
	2	320									
	4	240	L	ND	ND	ND	ND	ND	341		
SP3	SURF	1680	L	ND	ND	ND	ND	ND	1890		
	2	400									
	4	160	L	ND	ND	ND	ND	ND	ND		
SP4	SURF	160	L	ND	ND	ND	ND	ND	ND		
	2	320									
	4	240	L	ND	ND	ND	ND	ND	ND		
SP5	SURF	880	L	ND	ND	ND	ND	ND	1080		
	2	320									
	4	160	L	ND	ND	ND	ND	ND	ND		
SP6	SURF	160	L	ND	ND	ND	ND	ND	ND		
	2	400									
	4	240	L	ND	ND	ND	ND	ND	ND		
SP7	SURF	160	L	ND	ND	ND	ND	ND	ND		
	2	2400									
	4	160									
	6	160	L	ND	ND	ND	ND	ND	ND		

SP8	SURF	80	L	ND	ND	ND	ND	ND	ND		
	2	2960									
	4	160									
	6	160	L	ND	ND	ND	ND	ND	ND		
SP9	SURF	80	L	ND	ND	ND	ND	ND	ND		
	2	400									
	4	320	L	ND	ND	ND	ND	ND	ND		
SP10	SURF	80	L	ND	ND	ND	ND	ND	ND		
	2	960									
	4	160									
	6	160	L	ND	ND	ND	ND	ND	ND		
SP11	SURF	80	L	ND	ND	ND	ND	ND	ND		
	2	80									
	4	80	L	ND	ND	ND	ND	ND	ND		
SP12	SURF	80	L	ND	ND	ND	ND	ND	ND		
	2	1360									
	4	80									
	6	80	L	ND	ND	ND	ND	ND	ND		
SP13	SURF	80	L	ND	ND	ND	ND	ND	ND		
	2	160									
	4	80	L	ND	ND	ND	ND	ND	ND		
SP14	SURF	80	L	ND	ND	ND	ND	ND	ND		
	2	160									
	4	160	L	ND	ND	ND	ND	ND	ND		
SP15	SURF	80	L	ND	ND	ND	ND	ND	ND		
	2	80									
	4	80	L	ND	ND	ND	ND	ND	ND		

SP16	SURF	80	L	ND	ND	ND	ND	ND	ND		
	2	80									
	4	80	L	ND	ND	ND	ND	ND	ND		
SP17	SURF	80	L	ND	ND	ND	ND	ND	ND		
	2	80									
	4	80	L	ND	ND	ND	ND	ND	ND		
SP18	SURF	80	L	ND	ND	ND	ND	ND	28.9		
	2	80									
	4	80	L	ND	ND	ND	ND	ND	ND		
SP19	SURF	80	L	ND	ND	ND	ND	ND	116		
	2	160									
	4	80	L	ND	ND	ND	ND	ND	ND		
SP20	SURF	80	L	ND	ND	ND	ND	ND	75.7		
	2	2640									
	4	800									
	6	320									
	8	160									
	10	80	L	ND	ND	ND	ND	ND	ND		
SP21	SURF	80	L	ND	ND	ND	ND	ND	ND		
	2	640									
	4	400									
	6	240	L	ND	ND	ND	ND	ND	ND		
SP22	SURF	1600	H	ND	ND	292	178	470	1740		
	2	320									
	4	160									
	6	80	L	ND	ND	ND	ND	ND	ND		

SP23	SURF	160	L	ND	ND	ND	ND	ND	ND		
	2	160									
	4	160									
	6	80	L	ND	ND	ND	ND	ND	ND		
SP24	SURF	80	L	ND	ND	ND	ND	ND	78.3		
	2	160									
	4	80									
	6	80	L	ND	ND	ND	ND	ND	ND		
SP25	SURF	80	L	ND	ND	ND	ND	ND	59.1		
	2	320									
	4	80									
	6	80	L	ND	ND	ND	ND	ND	ND		
SP26	SURF	80	L	ND	ND	ND	ND	ND	43.2		
	2	1520									
	4	240									
	6	80	L	ND	ND	ND	ND	ND	ND		
SP27	SURF	240	L	ND	ND	ND	ND	ND	280		
	2	320									
	4	160									
	4	80									
	6	80	L	ND	ND	ND	ND	ND	ND		
SP28	SURF	800	L	ND	ND	ND	ND	ND	**1270**		
	2	1600									
	4	640									
	6	320									
	8	80									
	10	80	L	ND	ND	ND	ND	ND	ND		
SP29	SURF	3760	L	ND	ND	ND	ND	ND	**4910**		

	2	320									
	4	320									
	6	160									
	8	160									
	10	160									
	12	80	L	ND	ND	ND	ND	ND	ND		
SP30	SURF	160	L	ND	ND	ND	ND	ND	216		
	2	640									
	4	400									
	6	240									
	8	160									
	10	160									
	12	80	L	ND	ND	ND	ND	ND	ND		
SP31	SURF	>4000	L	ND	ND	ND	ND	ND	**13200**		
	2	960									
	4	560									
	6	400									
	8	160									
	10	80	L	ND	ND	ND	ND	ND	ND		
SP32	SURF	80	L	ND	ND	ND	ND	ND	56.9		
	2	320									
	4	160									
	6	80	L	ND	ND	ND	ND	ND	ND		
SP33	SURF	80	L	ND	ND	ND	ND	ND	54.2		
	2	240									
	4	80									
	6	80	L	ND	ND	ND	ND	ND	ND		
SP34	SURF	80	L	ND	ND	ND	ND	ND	86.2		
	2	320									

	4	800									
	6	720									
	8	560									
	10	80									
	12	80	L	ND	ND	ND	ND	ND	ND		
SP35	SURF	80	L	ND	ND	ND	ND	ND	93.4		
	2	880									
	4	640									
	6	240									
	8	80	L	ND	ND	ND	ND	ND	ND		
SP36	SURF	>4000	L	ND	ND	ND	ND	ND	**10500**		
	2	400									
	4	160									
	6	80									
	8	240									
	10	160	L	ND	ND	ND	ND	ND	ND		
SP37	SURF	80	L	ND	ND	ND	ND	ND	81		
	2	320									
	4	160									
	6	160									
	8	80	L	ND	ND	ND	ND	ND	ND		
SP38	SURF	80	L	ND	ND	ND	ND	ND	116		
	2	160									
	4	160									
	6	80									
	8	240									
	10	160									
	12	80	L	ND	ND	ND	ND	ND	ND		
SP39	SURF	160	L	ND	ND	ND	ND	ND	237		

	2	240									
	4	160									
	6	80	L	ND	ND	ND	ND	ND	ND		
SP40	SURF	240	L	ND	ND	ND	ND	ND	302		
	2	240									
	4	160									
	6	160	L	ND	ND	ND	ND	ND	ND		
SP41	SURF	400	L	ND	ND	35.9	ND	35.9	424		
	2	160									
	4	160	L	ND	ND	ND	ND	ND	166		
SP42	SURF	480	L	ND	ND	75.4	ND	75.4	**659**		
	2	160									
	4	160	L	ND	ND	ND	ND	ND	166		
SP43	SURF	480	L	ND	ND	84.4	ND	84.4	**679**		
	2	160									
	4	160	L	ND	ND	ND	ND	ND	164		
SP44	SURF	480	L	ND	ND	45.8	ND	45.8	533		
	2	240									
	4	240	L	ND	ND	ND	ND	ND	159		
SP45	SURF	400	**H**	ND	ND	**72.8**	**58.2**	**131**	488		
	2	160									
	4	160	L	ND	ND	ND	ND	ND	163		
SP46	SURF	3520	**H**	ND	ND	**66.9**	**56.1**	**123**	**4610**		
	2	160									
	4	160	L	ND	ND	ND	ND	ND	165		
SP47	SURF	>4000	L	ND	ND	30.2	ND	30.2	**8420**		

	2	160									
	4	160	L	ND	ND	ND	ND	ND	164		
SP48	SURF	>4000	L	ND	ND	ND	ND	ND	6080		
	2	480									
	4	240									
	6	240	L	ND	ND	ND	ND	ND	163		
SP49	SURF	>4000	L	ND	ND	ND	ND	ND	11100		
	2	640									
	4	240									
	6	240	L	ND	ND	ND	ND	ND	161		
SP50	SURF	>4000	L	ND	ND	ND	ND	ND	5800		
	2	800									
	4	640									
	6	240									
	8	240	L	ND	ND	ND	ND	ND	166		
SP51	SURF	>4000	L	ND	ND	ND	ND	ND	29800		
	2	880									
	4	240									
	6	160	L	ND	ND	ND	ND	ND	ND		
SP52	SURF	>4000	L	ND	ND	ND	ND	ND	40200		
	2	320									
	4	240	L	ND	ND	ND	ND	ND	ND		
SP53	SURF	>4000	L	ND	ND	ND	ND	ND	40400		
	2	400									
	4	320	L	ND	ND	ND	ND	ND	234		
SP54	SURF	>4000	L	ND	ND	ND	ND	ND	70100		
	2	800									

	4	160									
	6	160	L	ND	ND	ND	ND	ND	ND		
SP55	SURF	>4000	L	ND	ND	ND	ND	ND	19900		
	2	240									
	4	160	L	ND	ND	ND	ND	ND	ND		
SP56	SURF	1440	L	ND	ND	ND	ND	ND	1170		
	2	160									
	4	160	L	ND	ND	ND	ND	ND	ND		
SP57	SURF	>4000	L	ND	ND	ND	ND	ND	11100		
	2	160									
	4	160	L	ND	ND	ND	ND	ND	ND		
SP58	SURF	>4000	L	ND	ND	48.2	ND	48.2	38000		
	2	3520									
	4	240									
	6	240	L	ND	ND	ND	ND	ND	ND		
SP59	SURF	>4000	H	ND	ND	80.1	53.3	133.4	14100		
	2	240									
	4	160	L	ND	ND	ND	ND	ND	ND		
SP60	SURF	>4000	L	ND	ND	ND	ND	ND	31300		
	2	2480									
	4	400									
	6	240									
	8	160	L	ND	ND	ND	ND	ND	ND		
SP61	SURF	>4000	L	ND	ND	ND	ND	ND	46300		
	2	320									
	4	320									
	6	160									

	8	80	L	ND	ND	ND	ND	ND	ND		
SP62	SURF	320	L	ND	ND	ND	ND	ND	ND		
	2	240									
	4	160									
	6	160	L	ND	ND	ND	ND	ND	ND		
SP63	SURF	>4000	L	ND	ND	ND	ND	ND	**33800**		
	2	960									
	4	640									
	6	240									
	8	160	L	ND	ND	ND	ND	ND	ND		
SP64	SURF	>4000	L	ND	ND	27.7	ND	27.7	**26200**		
	2	400									
	4	160									
	6	160	L	ND	ND	ND	ND	ND	ND		
SW1	SURF	400	L	ND	ND	ND	ND	ND	396		
	1	160									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW2	SURF	>4000	L	ND	ND	ND	ND	ND	**4670**		
	1	160									
	2	80	L	ND	ND	ND	ND	ND	ND		
SW3	SURF	80	L	ND	ND	ND	ND	ND	54.6		
	1	240									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW4	SURF	80	L	ND	ND	ND	ND	ND	75.9		
	1	160									
	2	160	L	ND	ND	ND	ND	ND	ND		

SW5	SURF	80	L	ND	ND	ND	ND	ND	71.6		
	1	240									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW6	SURF	80	L	ND	ND	ND	ND	ND	66.2		
	1	80									
	2	80	H	ND	ND	800	176	976	ND		
	3	160									
	4	160	L	ND	ND	ND	ND	ND	ND		
SW7	SURF	80	L	ND	ND	ND	ND	ND	ND		
	1	160									
	2	160	H	ND	ND	800	177	977	ND		
	3	160									
	4	80	L	ND	ND	ND	ND	ND	ND		
SW8	SURF	80	L	ND	ND	ND	ND	ND	38.9		
	1	80									
	2	80	L	ND	ND	ND	ND	ND	ND		
SW9	SURF	400	L	ND	ND	ND	ND	ND	356		
	1	160									
	2	160									
	3	160	L	ND	ND	ND	ND	ND	ND		
SW10	SURF	3840	L	ND	ND	ND	ND	ND	4160		
	1	160									
	2	80	L	ND	ND	ND	ND	ND	ND		
SW11	SURF	2480	L	ND	ND	ND	ND	ND	2760		
	1	400									
	2	160	L	ND	ND	ND	ND	ND	54		
SW12	SURF	2800	L	ND	ND	ND	ND	ND	3420		

	1	400									
	2	320	L	ND	ND	ND	ND	ND	ND		
SW13	SURF	640	L	ND	ND	ND	ND	ND	507		
	1	400									
	2	320	L	ND	ND	ND	ND	ND	204		
SW14	SURF	>4000	L	ND	ND	ND	ND	ND	**6890**		
	1	400									
	2	400	L	ND	ND	ND	ND	ND	216		
SW15	SURF	80	L	ND	ND	ND	ND	ND	95.3		
	1	1680									
	2	400									
	3	400	L	ND	ND	ND	ND	ND	333		
SW16	SURF	>4000	L	ND	ND	ND	ND	ND	**14100**		
	1	400									
	2	400	L	ND	ND	ND	ND	ND	460		
SW17	SURF	>4000	L	ND	ND	ND	ND	ND	**25400**		
	1	640									
	2	400									
	3	160	L	ND	ND	ND	ND	ND	ND		
SW18	SURF	240	L	ND	ND	ND	ND	ND	339		
	1	320									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW19	SURF	>4000	L	ND	ND	ND	ND	ND	**10200**		
	1	400									
	2	240	L	ND	ND	ND	ND	ND	ND		
SW20	SURF	80	L	ND	ND	ND	ND	ND	76.6		

	1	160									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW21	SURF	>4000	L	ND	ND	ND	ND	ND	**7750**		
	1	400									
	2	400	L	ND	ND	ND	ND	ND	ND		
SW22	SURF	160	L	ND	ND	ND	ND	ND	ND		
	1	240									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW23	SURF	80	L	ND	ND	ND	ND	ND	124		
	1	160									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW24	SURF	>4000	L	ND	ND	ND	ND	ND	**10400**		
	1	160									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW25	SURF	>4000	L	ND	ND	ND	ND	ND	**7320**		
	1	400									
	2	320	L	ND	ND	ND	ND	ND	ND		
SW26	SURF	80	L	ND	ND	ND	ND	ND	52.6		
	1	320									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW27	SURF	80	L	ND	ND	ND	ND	ND	33.4		
	1	160									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW28	SURF	>4000	L	ND	ND	ND	ND	ND	**10400**		
	1	320									
	2	160	L	ND	ND	ND	ND	ND	ND		

SW29	SURF	1600	L	ND	ND	28.4	ND	28.4	444		
	1	320									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW30	SURF	1520	L	ND	ND	ND	ND	ND	1370		
	1	320									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW31	SURF	>4000	L	ND	ND	ND	ND	ND	32100		
	1	400									
	2	400	L	ND	ND	ND	ND	ND	411		
SW32	SURF	3760	L	ND	ND	ND	ND	ND	5240		
	1	240									
	2	160	L	ND	ND	ND	ND	ND	125		
SW33	SURF	640	L	ND	ND	ND	ND	ND	548		
	1	240									
	2	160	L	ND	ND	ND	ND	ND	39		
SW34	SURF	>4000	H	ND	ND	79.1	107	186.1	44200		
	1	160									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW35	SURF	>4000	L	ND	ND	ND	ND	ND	21000		
	1	240									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW36	SURF	>4000	L	ND	ND	30.6	ND	30.6	25200		
	1	160									
	2	160	L	ND	ND	ND	ND	ND	27.2		
SW37	SURF	>4000	L	ND	ND	26.8	63.1	89.9	8800		

	1	160									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW38	SURF	>4000	H	ND	ND	42.2	58.5	100.7	30300		
	2	240									
	4	160	L	ND	ND	ND	ND	ND	ND		
SW39	SURF	>4000	L	ND	ND	ND	ND	ND	13900		
	1	400									
	2	240									
	3	160	L	ND	ND	ND	ND	ND	ND		
SW40	SURF	160	L	ND	ND	ND	ND	ND	ND		
	1	160									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW41	SURF	80	L	ND	ND	ND	ND	ND	ND		
	1	240									
	2	160									
	3	160	L	ND	ND	ND	ND	ND	ND		
SW42	SURF	>4000	L	ND	ND	ND	ND	ND	10600		
	1	320									
	2	160									
	3	160	L	ND	ND	ND	ND	ND	56.2		
SW43	SURF	80	L	ND	ND	ND	ND	ND	ND		
	1	240									
	2	160	L	ND	ND	ND	ND	ND	ND		
SW44	SURF	>4000	L	ND	ND	ND	ND	ND	29700		
	1	160									
	2	160	L	ND	ND	ND	ND	ND	ND		

CLIENTS MACK ENERGY
LOCATION WEST MOUNT SPILL #1
DELINEATION GPS

SAMPLE ID	LAT	LONG
SP1	32.978436°	-104.094973°
SP2	32.978432°	-104.095073°
SP3	32.978429°	-104.095174°
SP4	32.978431°	-104.095283°
SP5	32.978431°	-104.095389°
SP6	32.978432°	-104.095499°
SP7	32.978430°	-104.095601°
SP8	32.978430°	-104.095690°
SP9	32.978431°	-104.095788°
SP10	32.978437°	-104.095842°
SP11	32.978348°	-104.096298°
SP12	32.978345°	-104.096155°
SP13	32.978348°	-104.096038°
SP14	32.978344°	-104.095915°
SP15	32.978344°	-104.095787°
SP16	32.978344°	-104.095644°
SP17	32.978348°	-104.095515°
SP18	32.978351°	-104.095324°
SP19	32.978348°	-104.095155°
SP20	32.978358°	-104.094989°
SP21	32.978541°	-104.094869°
SP22	32.978546°	-104.094959°
SP23	32.978572°	-104.095046°
SP24	32.978549°	-104.095147°
SP25	32.978560°	-104.095275°
SP26	32.978646°	-104.095367°
SP27	32.978553°	-104.095389°
SP28	32.978552°	-104.095492°
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SP33	32.978563°	-104.095951°
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SP36	32.978563°	-104.096151°
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SP38	32.978556°	-104.096326°
SP39	32.978560°	-104.096419°
SP40	32.978593°	-104.096459°
SP41	32.978560°	-104.096484°
SP42	32.978545°	-104.096084°

SP43	32.978540°	-104.095987°
SP44	32.978535°	-104.095890°
SP45	32.978520°	-104.095743°
SP46	32.978517°	-104.095645°
SP47	32.978521°	-104.095536°
SP48	32.978526°	-104.095435°
SP49	32.978525°	-104.095332°
SP50	32.978521°	-104.095215°
SP51	32.978525°	-104.095076°
SP52	32.978484°	-104.094976°
SP53	32.978486°	-104.095050°
SP54	32.978494°	-104.095145°
SP55	32.978497°	-104.095271°
SP56	32.978495°	-104.095379°
SP57	32.978492°	-104.095484°
SP58	32.978489°	-104.095588°
SP59	32.978493°	-104.095765°
SP60	32.978430°	-104.095948°
SP61	32.978427°	-104.096076°
SP62	32.978428°	-104.096190°
SP63	32.978431°	-104.096306°
SP64	32.978435°	-104.096440°
SW1	32.978418°	-104.094928°
SW2	32.978343°	-104.094939°
SW3	32.978321°	-104.095013°
SW4	32.978329°	-104.095097°
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SW6	32.978331°	-104.095376°
SW7	32.978334°	-104.095547°
SW8	32.978336°	-104.095728°
SW9	32.978333°	-104.095901°
SW10	32.978341°	-104.096118°
SW11	32.978351°	-104.096332°
SW12	32.978354°	-104.096217°
SW13	32.978354°	-104.095880°
SW14	32.978352°	-104.095604°
SW15	32.978365°	-104.095322°
SW16	32.978383°	-104.095020°
SW17	32.978405°	-104.095178°
SW18	32.978412°	-104.095468°
SW19	32.978412°	-104.095745°
SW20	32.978411°	-104.096024°
SW21	32.978417°	-104.096262°
SW22	32.978428°	-104.096493°
SW23	32.978444°	-104.096312°
SW24	32.978445°	-104.096040°
SW25	32.978451°	-104.095688°

SW26	32.978452°	-104.095468°
SW27	32.978450°	-104.095219°
SW28	32.978464°	-104.094998°
SW29	32.978473°	-104.095282°
SW30	32.978469°	-104.095572°
SW31	32.978474°	-104.095794°
SW32	32.978521°	-104.096054°
SW33	32.978550°	-104.096268°
SW34	32.978583°	-104.096499°
SW35	32.978574°	-104.096202°
SW36	32.978623°	-104.096058°
SW37	32.978577°	-104.095755°
SW38	32.978568°	-104.095479°
SW39	32.978572°	-104.095303°
SW40	32.978689°	-104.095419°
SW41	32.978659°	-104.095329°
SW42	32.978570°	-104.095171°
SW43	32.978593°	-104.095018°
SW44	32.978531°	-104.094828°

Received by OCD: 5/14/2025 8:53:25 AM

MACK ENERGY

WEST MOUNT SPILL 1
DELNEATION MAP

Legend

- HORIZONTAL SAMPLE PTS
- VERTICAL SAMPLE PTS
- WEST MOUNT 1 RELEASE
- WEST MOUNT SPILL 1 IMPACT AREA

WEST MOUNT 1 RELEASE

SW40 SW41 SP26 SW36 SP34 SP40 SW34 SP41 SP39 SP38 SW33 SP37 SW35 SP36 SP42 SW32 SP35 SP43 SP33 SP32 SP44 SP31 SW37 SP30 SP45 SP46 SP29 SW38 SP28 SP47 SP27 SP48 SW39 SP25 SP49 SW42 SP24 SP50 SW43 SP23 SP51 SP22 SP21 SW44 SW31 SP59 SP58 SW30 SP57 SW29 SP56 SP55 SP54 SP53 SP52 SW28 SW27 SP3 SP2 SP1 SW1 SW22 SP64 SW23 SP63 SW21 SP62 SW24 SW20 SP61 SP60 SP10 SP9 SP8 SW25 SW19 SP7 SP6 SW26 SW18 SP5 SP4 SW17 SW16 SW11 SW12 SP12 SW10 SP13 SP14 SW9 SW13 SP15 SW8 SP16 SW14 SW7 SP17 SP18 SW6 SW15 SW5 SP19 SW4 SP20 SW3 SW2

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100 ft

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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 #1

Work Order: E309117

Job Number: 20046-0001

Received: 9/15/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/18/23

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Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/18/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E309117
Date Received: 9/15/2023 8:15:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/15/2023 8:15:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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,

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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	09/18/23 14:50

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1 Surf	E309117-01A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP2 Surf	E309117-02A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP3 Surf	E309117-03A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP4 Surf	E309117-04A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP5 Surf	E309117-05A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP6 Surf	E309117-06A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP7 Surf	E309117-07A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP8 Surf	E309117-08A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP9 Surf	E309117-09A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP10 Surf	E309117-10A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP11 Surf	E309117-11A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP12 Surf	E309117-12A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP13 Surf	E309117-13A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP14 Surf	E309117-14A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP15 Surf	E309117-15A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP16 Surf	E309117-16A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP17 Surf	E309117-17A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP18 Surf	E309117-18A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP19 Surf	E309117-19A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP20 Surf	E309117-20A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP21 Surf	E309117-21A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP22 Surf	E309117-22A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP23 Surf	E309117-23A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.
SP24 Surf	E309117-24A	Soil	09/13/23	09/15/23	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP1 Surf

E309117-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.6 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/15/23	
Surrogate: n-Nonane		*81.0 %*	*50-200*	*09/15/23*	*09/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	**6090**	400	20	09/15/23	09/15/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP2 Surf

E309117-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/15/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/15/23	
Toluene	ND	0.0250	1	09/15/23	09/15/23	
o-Xylene	ND	0.0250	1	09/15/23	09/15/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/15/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/15/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*09/15/23*	*09/15/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.0 %*	*70-130*	*09/15/23*	*09/15/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/15/23	
Surrogate: n-Nonane		*83.5 %*	*50-200*	*09/15/23*	*09/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	**433**	20.0	1	09/15/23	09/15/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP3 Surf

E309117-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.6 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/15/23	
Surrogate: n-Nonane		*82.1 %*	*50-200*	*09/15/23*	*09/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	**1890**	40.0	2	09/15/23	09/15/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP4 Surf

E309117-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.4 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.7 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/15/23	
Surrogate: n-Nonane		*79.8 %*	*50-200*	*09/15/23*	*09/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	ND	400	20	09/15/23	09/15/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP5 Surf

E309117-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.6 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/15/23	
Surrogate: n-Nonane		*82.7 %*	*50-200*	*09/15/23*	*09/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	**1080**	40.0	2	09/15/23	09/15/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP6 Surf

E309117-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.3 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.9 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/15/23	
Surrogate: n-Nonane		*81.5 %*	*50-200*	*09/15/23*	*09/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	ND	200	10	09/15/23	09/15/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP7 Surf

E309117-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.6 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/15/23	
Surrogate: n-Nonane		*85.6 %*	*50-200*	*09/15/23*	*09/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	ND	400	20	09/15/23	09/15/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP8 Surf

E309117-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.3 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/15/23	
Surrogate: n-Nonane		*84.5 %*	*50-200*	*09/15/23*	*09/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	ND	400	20	09/15/23	09/15/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP9 Surf

E309117-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.6 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/15/23	
Surrogate: n-Nonane		*84.0 %*	*50-200*	*09/15/23*	*09/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	ND	400	20	09/15/23	09/15/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP10 Surf

E309117-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.5 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/15/23	
Surrogate: n-Nonane		*86.5 %*	*50-200*	*09/15/23*	*09/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	ND	200	10	09/15/23	09/15/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP11 Surf

E309117-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.6 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		*87.3 %*	*50-200*	*09/15/23*	*09/16/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	ND	20.0	1	09/15/23	09/16/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP12 Surf

E309117-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.4 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		*86.7 %*	*50-200*	*09/15/23*	*09/16/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	ND	20.0	1	09/15/23	09/16/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP13 Surf

E309117-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.0 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		*84.9 %*	*50-200*	*09/15/23*	*09/16/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	ND	20.0	1	09/15/23	09/16/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP14 Surf

E309117-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.8 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		*85.4 %*	*50-200*	*09/15/23*	*09/16/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	ND	20.0	1	09/15/23	09/16/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP15 Surf

E309117-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.4 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		*85.1 %*	*50-200*	*09/15/23*	*09/16/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	ND	20.0	1	09/15/23	09/16/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP16 Surf

E309117-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.7 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.3 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		*85.3 %*	*50-200*	*09/15/23*	*09/16/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	ND	20.0	1	09/15/23	09/16/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP17 Surf

E309117-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.4 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.1 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		*85.9 %*	*50-200*	*09/15/23*	*09/16/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	ND	20.0	1	09/15/23	09/16/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP18 Surf

E309117-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.7 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.8 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		*85.1 %*	*50-200*	*09/15/23*	*09/16/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	**28.9**	20.0	1	09/15/23	09/16/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP19 Surf

E309117-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.7 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		*86.7 %*	*50-200*	*09/15/23*	*09/16/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	**116**	20.0	1	09/15/23	09/16/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP20 Surf

E309117-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.7 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337096
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.3 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337092
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		*86.3 %*	*50-200*	*09/15/23*	*09/16/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337098
Chloride	**75.7**	20.0	1	09/15/23	09/16/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP21 Surf

E309117-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337100
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.1 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337100
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.4 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337093
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		*95.2 %*	*50-200*	*09/15/23*	*09/16/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337099
Chloride	ND	20.0	1	09/15/23	09/16/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP22 Surf

E309117-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337100
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.6 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337100
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.8 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337093
Diesel Range Organics (C10-C28)	**292**	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	**178**	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		*93.5 %*	*50-200*	*09/15/23*	*09/16/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337099
Chloride	**1740**	40.0	2	09/15/23	09/16/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP23 Surf

E309117-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337100
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.5 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337100
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.1 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337093
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		*101 %*	*50-200*	*09/15/23*	*09/16/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337099
Chloride	ND	20.0	1	09/15/23	09/16/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

SP24 Surf

E309117-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2337100
Benzene	ND	0.0250	1	09/15/23	09/16/23	
Ethylbenzene	ND	0.0250	1	09/15/23	09/16/23	
Toluene	ND	0.0250	1	09/15/23	09/16/23	
o-Xylene	ND	0.0250	1	09/15/23	09/16/23	
p,m-Xylene	ND	0.0500	1	09/15/23	09/16/23	
Total Xylenes	ND	0.0250	1	09/15/23	09/16/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.6 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2337100
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/15/23	09/16/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*09/15/23*	*09/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2337093
Diesel Range Organics (C10-C28)	ND	25.0	1	09/15/23	09/16/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/15/23	09/16/23	
Surrogate: n-Nonane		*98.0 %*	*50-200*	*09/15/23*	*09/16/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2337099
Chloride	**78.3**	20.0	1	09/15/23	09/16/23	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2337096-BLK1)									Prepared: 09/15/23 Analyzed: 09/15/23
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	*7.30*		*8.00*		*91.2*	*70-130*			
LCS (2337096-BS1)									Prepared: 09/15/23 Analyzed: 09/15/23
Benzene	4.29	0.0250	5.00		85.7	70-130			
Ethylbenzene	4.15	0.0250	5.00		83.0	70-130			
Toluene	4.31	0.0250	5.00		86.2	70-130			
o-Xylene	4.31	0.0250	5.00		86.2	70-130			
p,m-Xylene	8.61	0.0500	10.0		86.1	70-130			
Total Xylenes	12.9	0.0250	15.0		86.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.35*		*8.00*		*91.8*	*70-130*			
Matrix Spike (2337096-MS1)				**Source: E309117-02**					Prepared: 09/15/23 Analyzed: 09/15/23
Benzene	4.59	0.0250	5.00	ND	91.8	54-133			
Ethylbenzene	4.47	0.0250	5.00	ND	89.4	61-133			
Toluene	4.62	0.0250	5.00	ND	92.4	61-130			
o-Xylene	4.59	0.0250	5.00	ND	91.8	63-131			
p,m-Xylene	9.24	0.0500	10.0	ND	92.4	63-131			
Total Xylenes	13.8	0.0250	15.0	ND	92.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.41*		*8.00*		*92.6*	*70-130*			
Matrix Spike Dup (2337096-MSD1)				**Source: E309117-02**					Prepared: 09/15/23 Analyzed: 09/15/23
Benzene	4.32	0.0250	5.00	ND	86.5	54-133	5.97	20	
Ethylbenzene	4.21	0.0250	5.00	ND	84.2	61-133	5.95	20	
Toluene	4.36	0.0250	5.00	ND	87.2	61-130	5.86	20	
o-Xylene	4.35	0.0250	5.00	ND	87.0	63-131	5.36	20	
p,m-Xylene	8.72	0.0500	10.0	ND	87.2	63-131	5.83	20	
Total Xylenes	13.1	0.0250	15.0	ND	87.1	63-131	5.67	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.45*		*8.00*		*93.2*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2337100-BLK1)									Prepared: 09/15/23 Analyzed: 09/16/23
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	*7.71*		*8.00*		*96.4*	*70-130*			
LCS (2337100-BS1)									Prepared: 09/15/23 Analyzed: 09/16/23
Benzene	4.18	0.0250	5.00		83.6	70-130			
Ethylbenzene	4.17	0.0250	5.00		83.3	70-130			
Toluene	4.20	0.0250	5.00		83.9	70-130			
o-Xylene	4.21	0.0250	5.00		84.1	70-130			
p,m-Xylene	8.50	0.0500	10.0		85.0	70-130			
Total Xylenes	12.7	0.0250	15.0		84.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.77*		*8.00*		*97.1*	*70-130*			
Matrix Spike (2337100-MS1)				**Source: E309117-24**					Prepared: 09/15/23 Analyzed: 09/16/23
Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.78	0.0250	5.00	ND	95.6	61-133			
Toluene	4.82	0.0250	5.00	ND	96.4	61-130			
o-Xylene	4.81	0.0250	5.00	ND	96.2	63-131			
p,m-Xylene	9.74	0.0500	10.0	ND	97.4	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	97.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.75*		*8.00*		*96.9*	*70-130*			
Matrix Spike Dup (2337100-MSD1)				**Source: E309117-24**					Prepared: 09/15/23 Analyzed: 09/16/23
Benzene	4.55	0.0250	5.00	ND	91.0	54-133	5.41	20	
Ethylbenzene	4.51	0.0250	5.00	ND	90.2	61-133	5.79	20	
Toluene	4.55	0.0250	5.00	ND	91.0	61-130	5.78	20	
o-Xylene	4.54	0.0250	5.00	ND	90.9	63-131	5.74	20	
p,m-Xylene	9.18	0.0500	10.0	ND	91.8	63-131	5.85	20	
Total Xylenes	13.7	0.0250	15.0	ND	91.5	63-131	5.81	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.73*		*8.00*		*96.7*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2337096-BLK1)									Prepared: 09/15/23 Analyzed: 09/15/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.90*		*8.00*		*86.2*	*70-130*			
LCS (2337096-BS2)									Prepared: 09/15/23 Analyzed: 09/15/23
Gasoline Range Organics (C6-C10)	38.0	20.0	50.0		76.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.94*		*8.00*		*86.8*	*70-130*			
Matrix Spike (2337096-MS2)				**Source: E309117-02**					Prepared: 09/15/23 Analyzed: 09/15/23
Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.05*		*8.00*		*88.1*	*70-130*			
Matrix Spike Dup (2337096-MSD2)				**Source: E309117-02**					Prepared: 09/15/23 Analyzed: 09/15/23
Gasoline Range Organics (C6-C10)	39.4	20.0	50.0	ND	78.9	70-130	2.55	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.96*		*8.00*		*87.0*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2337100-BLK1)									Prepared: 09/15/23 Analyzed: 09/16/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.46*		*8.00*		*93.3*	*70-130*			
LCS (2337100-BS2)									Prepared: 09/15/23 Analyzed: 09/16/23
Gasoline Range Organics (C6-C10)	38.5	20.0	50.0		77.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.49*		*8.00*		*93.6*	*70-130*			
Matrix Spike (2337100-MS2)				**Source: E309117-24**					Prepared: 09/15/23 Analyzed: 09/16/23
Gasoline Range Organics (C6-C10)	40.2	20.0	50.0	ND	80.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.52*		*8.00*		*94.0*	*70-130*			
Matrix Spike Dup (2337100-MSD2)				**Source: E309117-24**					Prepared: 09/15/23 Analyzed: 09/16/23
Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.6	70-130	3.81	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.40*		*8.00*		*92.5*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2337092-BLK1)									Prepared: 09/15/23 Analyzed: 09/15/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*47.4*		*50.0*		*94.8*	*50-200*			
LCS (2337092-BS1)									Prepared: 09/15/23 Analyzed: 09/15/23
Diesel Range Organics (C10-C28)	226	25.0	250		90.6	38-132			
Surrogate: n-Nonane	*43.9*		*50.0*		*87.7*	*50-200*			
Matrix Spike (2337092-MS1)				**Source: E309117-01**					Prepared: 09/15/23 Analyzed: 09/15/23
Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.0	38-132			
Surrogate: n-Nonane	*37.5*		*50.0*		*75.0*	*50-200*			
Matrix Spike Dup (2337092-MSD1)				**Source: E309117-01**					Prepared: 09/15/23 Analyzed: 09/15/23
Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.2	38-132	0.192	20	
Surrogate: n-Nonane	*38.0*		*50.0*		*75.9*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2337093-BLK1)									Prepared: 09/15/23 Analyzed: 09/15/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*51.3*		*50.0*		*103*	*50-200*			
LCS (2337093-BS1)									Prepared: 09/15/23 Analyzed: 09/15/23
Diesel Range Organics (C10-C28)	248	25.0	250		99.3	38-132			
Surrogate: n-Nonane	*49.4*		*50.0*		*98.8*	*50-200*			
Matrix Spike (2337093-MS1)				**Source: E309090-04**					Prepared: 09/15/23 Analyzed: 09/15/23
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.2	38-132			
Surrogate: n-Nonane	*47.9*		*50.0*		*95.8*	*50-200*			
Matrix Spike Dup (2337093-MSD1)				**Source: E309090-04**					Prepared: 09/15/23 Analyzed: 09/15/23
Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	38-132	2.39	20	
Surrogate: n-Nonane	*47.8*		*50.0*		*95.6*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2337098-BLK1)									Prepared: 09/15/23 Analyzed: 09/15/23
Chloride	ND	20.0							
LCS (2337098-BS1)									Prepared: 09/15/23 Analyzed: 09/18/23
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2337098-MS1)				**Source: E309117-01**					Prepared: 09/15/23 Analyzed: 09/15/23
Chloride	5790	400	250	6090	NR	80-120			M5
Matrix Spike Dup (2337098-MSD1)				**Source: E309117-01**					Prepared: 09/15/23 Analyzed: 09/15/23
Chloride	6340	400	250	6090	99.4	80-120	9.08	20	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/18/2023 2:50:34PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2337099-BLK1)									Prepared: 09/15/23 Analyzed: 09/16/23
Chloride	ND	20.0							
LCS (2337099-BS1)									Prepared: 09/15/23 Analyzed: 09/16/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2337099-MS1)				**Source: E309116-21**					Prepared: 09/15/23 Analyzed: 09/16/23
Chloride	546	20.0	250	281	106	80-120			
Matrix Spike Dup (2337099-MSD1)				**Source: E309116-21**					Prepared: 09/15/23 Analyzed: 09/16/23
Chloride	539	20.0	250	281	103	80-120	1.28	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	09/18/23 14:50

M5	The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated 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

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 3

Client: MACK ENERGY
Project: WEST MOUNT #1
Project Manager: Natalie Gladden
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E309117 | Job Number 20046.0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM X | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
	9/13/23	S	1	SP1 SURF	1	
				SP2 SURF	2	
				SP3 SURF	3	
				SP4 SURF	4	
				SP5 SURF	5	
				SP6 SURF	6	
				SP7 SURF	7	
				SP8 SURF	8	
				SP9 SURF	9	
				SP10 SURF	10	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RUCKER

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9/13/23		Michelle Reyes	9-14-23	1330
Michelle Reyes	9-14-23	1630	Andrew Mesa	9.14.23	1715
Andrew Mesa	9.14.23	2330	Caitlin Mesa	9.15.23	8:15

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client: MACK ENERGY
Project: WEST MOUNT #1
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E309117
Job Number 20046.0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 5015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM X | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
	9/13/23	S	1	SP11 SURF	11	
				SP12 SURF	12	
				SP13 SURF	13	
				SP14 SURF	14	
				SP15 SURF	15	
				SP16 SURF	16	
				SP17 SURF	17	
				SP18 SURF	18	
				SP19 SURF	19	
				SP20 SURF	20	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M REVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9/13/23			9-14-23	1330
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9-14-23	1630		9.14.23	1715
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9.14.23	2330		9.15.23	8:15

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 3 of 3

Client: MACK ENERGY
Project: WEST MOUNT #1
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E309117 | Job Number 20046-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM X | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
	9/13/23	S	1	SP21 SURF	21	
	〃	〃	〃	SP22 SURF	22	
	〃	〃	〃	SP23 SURF	23	
	9/13/23	S	1	SP24 SURF	24	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9/13/23		Michelle Gonzales	9-14-23	1330
Michelle Gonz	9-14-23	1630	[illegible]	9.14.23	1715
[illegible]	9.14.23	2330	[illegible]	9.15.23	8:15

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Envirotech Analytical Laboratory

Printed: 9/15/2023 9:11:18AM

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:	09/15/23 08:15	Work Order ID:	E309117
Phone:	(575) 390-6397	Date Logged In:	09/14/23 14:59	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	09/18/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Sampled times are not documented on COC by client.

Client Instruction

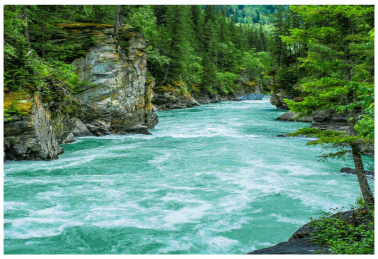
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech 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:	West Mount #1
Work Order:	E309132
Job Number:	20046-0001
Received:	9/19/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/20/23

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: 9/20/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E309132
Date Received: 9/19/2023 8:20:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/19/2023 8:20:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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

Alexa Michaels
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Office: 505-632-1881
labadmin@envirotech-inc.com

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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	09/20/23 15:37

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 25 Surf	E309132-01A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 26 Surf	E309132-02A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 27 Surf	E309132-03A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 28 Surf	E309132-04A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 29 Surf	E309132-05A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 30 Surf	E309132-06A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 31 Surf	E309132-07A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 32 Surf	E309132-08A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 33 Surf	E309132-09A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 34 Surf	E309132-10A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 35 Surf	E309132-11A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 36 Surf	E309132-12A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 37 Surf	E309132-13A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 38 Surf	E309132-14A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 39 Surf	E309132-15A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 40 Surf	E309132-16A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 41 Surf	E309132-17A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 42 Surf	E309132-18A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 43 Surf	E309132-19A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 44 Surf	E309132-20A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 45 Surf	E309132-21A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 46 Surf	E309132-22A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 47 Surf	E309132-23A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 48 Surf	E309132-24A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 49 Surf	E309132-25A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.
SP 50 Surf	E309132-26A	Soil	09/14/23	09/19/23	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 25 Surf

E309132-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.4 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/19/23	
Surrogate: n-Nonane		*85.4 %*	*50-200*	*09/19/23*	*09/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**59.1**	40.0	2	09/19/23	09/19/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 26 Surf

E309132-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.0 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/19/23	
Surrogate: n-Nonane		*77.0 %*	*50-200*	*09/19/23*	*09/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**43.2**	20.0	1	09/19/23	09/19/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 27 Surf

E309132-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.5 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/19/23	
Surrogate: n-Nonane		*83.4 %*	*50-200*	*09/19/23*	*09/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**280**	40.0	2	09/19/23	09/19/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 28 Surf

E309132-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.9 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.5 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/19/23	
Surrogate: n-Nonane		*84.4 %*	*50-200*	*09/19/23*	*09/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**1270**	40.0	2	09/19/23	09/19/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 29 Surf

E309132-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.6 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/19/23	
Surrogate: n-Nonane		*80.5 %*	*50-200*	*09/19/23*	*09/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**4910**	40.0	2	09/19/23	09/19/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 30 Surf

E309132-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.3 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/19/23	
Surrogate: n-Nonane		*84.7 %*	*50-200*	*09/19/23*	*09/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**216**	40.0	2	09/19/23	09/19/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 31 Surf

E309132-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.6 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/19/23	
Surrogate: n-Nonane		*80.2 %*	*50-200*	*09/19/23*	*09/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**13200**	400	20	09/19/23	09/19/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 32 Surf

E309132-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.0 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*79.8 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**56.9**	20.0	1	09/19/23	09/19/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 33 Surf

E309132-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.9 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.2 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*82.4 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**54.2**	20.0	1	09/19/23	09/19/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 34 Surf

E309132-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.9 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.4 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*82.8 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**86.2**	20.0	1	09/19/23	09/19/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 35 Surf

E309132-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.9 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*80.3 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**93.4**	20.0	1	09/19/23	09/19/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 36 Surf

E309132-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.0 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*81.0 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**10500**	400	20	09/19/23	09/19/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 37 Surf

E309132-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.7 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.4 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*76.3 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**81.0**	20.0	1	09/19/23	09/19/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 38 Surf

E309132-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.4 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*81.4 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**116**	20.0	1	09/19/23	09/19/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

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E309132-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.4 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*84.6 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**237**	20.0	1	09/19/23	09/19/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 40 Surf

E309132-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.8 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.5 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*83.5 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**302**	20.0	1	09/19/23	09/19/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

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E309132-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.7 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	**35.9**	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*84.7 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**424**	20.0	1	09/19/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 42 Surf

E309132-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.9 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.3 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	**75.4**	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*88.4 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**659**	20.0	1	09/19/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

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E309132-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.7 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.8 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	**84.4**	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*85.7 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**679**	20.0	1	09/19/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 44 Surf

E309132-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338021
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.6 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338026
Diesel Range Organics (C10-C28)	**45.8**	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*85.1 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338030
Chloride	**533**	20.0	1	09/19/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

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E309132-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2338024
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*112 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*96.0 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338024
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*112 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*96.0 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338040
Diesel Range Organics (C10-C28)	**72.8**	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	**58.2**	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*90.6 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338034
Chloride	**488**	20.0	1	09/19/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

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E309132-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2338024
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*98.1 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338024
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*98.1 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338040
Diesel Range Organics (C10-C28)	**66.9**	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	**56.1**	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*82.8 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338034
Chloride	**4610**	100	5	09/19/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

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E309132-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2338024
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*94.4 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338024
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*94.4 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338040
Diesel Range Organics (C10-C28)	**30.2**	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*91.0 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338034
Chloride	**8420**	400	20	09/19/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

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E309132-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2338024
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*93.2 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338024
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*93.2 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338040
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*91.1 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338034
Chloride	**6080**	200	10	09/19/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

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E309132-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2338024
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*91.5 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338024
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*91.5 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338040
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*93.0 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338034
Chloride	**11100**	400	20	09/19/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

SP 50 Surf

E309132-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2338024
Benzene	ND	0.0250	1	09/19/23	09/19/23	
Ethylbenzene	ND	0.0250	1	09/19/23	09/19/23	
Toluene	ND	0.0250	1	09/19/23	09/19/23	
o-Xylene	ND	0.0250	1	09/19/23	09/19/23	
p,m-Xylene	ND	0.0500	1	09/19/23	09/19/23	
Total Xylenes	ND	0.0250	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*113 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*92.5 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2338024
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/19/23	09/19/23	
Surrogate: Bromofluorobenzene		*113 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: 1,2-Dichloroethane-d4		*92.5 %*	*70-130*	*09/19/23*	*09/19/23*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*09/19/23*	*09/19/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2338040
Diesel Range Organics (C10-C28)	ND	25.0	1	09/19/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/19/23	09/20/23	
Surrogate: n-Nonane		*91.7 %*	*50-200*	*09/19/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338034
Chloride	**5800**	400	20	09/19/23	09/20/23	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338024-BLK1)									Prepared: 09/19/23 Analyzed: 09/19/23
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: Bromofluorobenzene	*0.505*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.469*		*0.500*		*93.7*	*70-130*			
Surrogate: Toluene-d8	*0.532*		*0.500*		*106*	*70-130*			
LCS (2338024-BS1)									Prepared: 09/19/23 Analyzed: 09/19/23
Benzene	2.60	0.0250	2.50		104	70-130			
Ethylbenzene	2.53	0.0250	2.50		101	70-130			
Toluene	2.44	0.0250	2.50		97.6	70-130			
o-Xylene	2.59	0.0250	2.50		104	70-130			
p,m-Xylene	5.18	0.0500	5.00		104	70-130			
Total Xylenes	7.77	0.0250	7.50		104	70-130			
Surrogate: Bromofluorobenzene	*0.526*		*0.500*		*105*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.454*		*0.500*		*90.8*	*70-130*			
Surrogate: Toluene-d8	*0.504*		*0.500*		*101*	*70-130*			
Matrix Spike (2338024-MS1)				**Source: E309133-24**					Prepared: 09/19/23 Analyzed: 09/19/23
Benzene	2.83	0.0250	2.50	ND	113	48-131			
Ethylbenzene	2.73	0.0250	2.50	ND	109	45-135			
Toluene	2.62	0.0250	2.50	ND	105	48-130			
o-Xylene	2.89	0.0250	2.50	ND	115	43-135			
p,m-Xylene	5.62	0.0500	5.00	ND	112	43-135			
Total Xylenes	8.50	0.0250	7.50	ND	113	43-135			
Surrogate: Bromofluorobenzene	*0.547*		*0.500*		*109*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.483*		*0.500*		*96.5*	*70-130*			
Surrogate: Toluene-d8	*0.506*		*0.500*		*101*	*70-130*			
Matrix Spike Dup (2338024-MSD1)				**Source: E309133-24**					Prepared: 09/19/23 Analyzed: 09/19/23
Benzene	2.86	0.0250	2.50	ND	114	48-131	1.11	23	
Ethylbenzene	2.85	0.0250	2.50	ND	114	45-135	4.05	27	
Toluene	3.07	0.0250	2.50	ND	123	48-130	15.8	24	
o-Xylene	3.11	0.0250	2.50	ND	125	43-135	7.60	27	
p,m-Xylene	6.14	0.0500	5.00	ND	123	43-135	8.86	27	
Total Xylenes	9.25	0.0250	7.50	ND	123	43-135	8.43	27	
Surrogate: Bromofluorobenzene	*0.542*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.470*		*0.500*		*93.9*	*70-130*			
Surrogate: Toluene-d8	*0.565*		*0.500*		*113*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338021-BLK1)									Prepared: 09/19/23 Analyzed: 09/19/23
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	*7.45*		*8.00*		*93.1*	*70-130*			
LCS (2338021-BS1)									Prepared: 09/19/23 Analyzed: 09/19/23
Benzene	4.86	0.0250	5.00		97.2	70-130			
Ethylbenzene	4.85	0.0250	5.00		96.9	70-130			
Toluene	4.88	0.0250	5.00		97.6	70-130			
o-Xylene	4.85	0.0250	5.00		97.0	70-130			
p,m-Xylene	9.87	0.0500	10.0		98.7	70-130			
Total Xylenes	14.7	0.0250	15.0		98.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.56*		*8.00*		*94.5*	*70-130*			
Matrix Spike (2338021-MS1)				**Source: E309132-08**					Prepared: 09/19/23 Analyzed: 09/19/23
Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.78	0.0250	5.00	ND	95.5	61-133			
Toluene	4.81	0.0250	5.00	ND	96.2	61-130			
o-Xylene	4.77	0.0250	5.00	ND	95.4	63-131			
p,m-Xylene	9.73	0.0500	10.0	ND	97.3	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.47*		*8.00*		*93.4*	*70-130*			
Matrix Spike Dup (2338021-MSD1)				**Source: E309132-08**					Prepared: 09/19/23 Analyzed: 09/19/23
Benzene	4.77	0.0250	5.00	ND	95.3	54-133	0.658	20	
Ethylbenzene	4.78	0.0250	5.00	ND	95.5	61-133	0.0241	20	
Toluene	4.80	0.0250	5.00	ND	96.0	61-130	0.194	20	
o-Xylene	4.78	0.0250	5.00	ND	95.5	63-131	0.0702	20	
p,m-Xylene	9.73	0.0500	10.0	ND	97.3	63-131	0.0802	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.7	63-131	0.0769	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.52*		*8.00*		*94.0*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338021-BLK1)									Prepared: 09/19/23 Analyzed: 09/19/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		*8.00*		*94.9*	*70-130*			
LCS (2338021-BS2)									Prepared: 09/19/23 Analyzed: 09/19/23
Gasoline Range Organics (C6-C10)	52.7	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.86*		*8.00*		*98.2*	*70-130*			
Matrix Spike (2338021-MS2)				**Source: E309132-08**					Prepared: 09/19/23 Analyzed: 09/19/23
Gasoline Range Organics (C6-C10)	52.3	20.0	50.0	ND	105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.85*		*8.00*		*98.1*	*70-130*			
Matrix Spike Dup (2338021-MSD2)				**Source: E309132-08**					Prepared: 09/19/23 Analyzed: 09/19/23
Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130	0.463	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.80*		*8.00*		*97.5*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338024-BLK1)									Prepared: 09/19/23 Analyzed: 09/19/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.505*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.469*		*0.500*		*93.7*	*70-130*			
Surrogate: Toluene-d8	*0.532*		*0.500*		*106*	*70-130*			
LCS (2338024-BS2)									Prepared: 09/19/23 Analyzed: 09/19/23
Gasoline Range Organics (C6-C10)	60.4	20.0	50.0		121	70-130			
Surrogate: Bromofluorobenzene	*0.540*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.450*		*0.500*		*89.9*	*70-130*			
Surrogate: Toluene-d8	*0.544*		*0.500*		*109*	*70-130*			
Matrix Spike (2338024-MS2)				**Source: E309133-24**					Prepared: 09/19/23 Analyzed: 09/19/23
Gasoline Range Organics (C6-C10)	58.1	20.0	50.0	ND	116	70-130			
Surrogate: Bromofluorobenzene	*0.538*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.435*		*0.500*		*87.0*	*70-130*			
Surrogate: Toluene-d8	*0.545*		*0.500*		*109*	*70-130*			
Matrix Spike Dup (2338024-MSD2)				**Source: E309133-24**					Prepared: 09/19/23 Analyzed: 09/19/23
Gasoline Range Organics (C6-C10)	60.0	20.0	50.0	ND	120	70-130	3.32	20	
Surrogate: Bromofluorobenzene	*0.542*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.451*		*0.500*		*90.2*	*70-130*			
Surrogate: Toluene-d8	*0.536*		*0.500*		*107*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338026-BLK1)									Prepared: 09/19/23 Analyzed: 09/19/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*44.2*		*50.0*		*88.4*	*50-200*			
LCS (2338026-BS1)									Prepared: 09/19/23 Analyzed: 09/19/23
Diesel Range Organics (C10-C28)	233	25.0	250		93.1	38-132			
Surrogate: n-Nonane	*41.8*		*50.0*		*83.6*	*50-200*			
Matrix Spike (2338026-MS1)				**Source: E309132-01**					Prepared: 09/19/23 Analyzed: 09/19/23
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.2	38-132			
Surrogate: n-Nonane	*37.9*		*50.0*		*75.8*	*50-200*			
Matrix Spike Dup (2338026-MSD1)				**Source: E309132-01**					Prepared: 09/19/23 Analyzed: 09/19/23
Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	38-132	0.354	20	
Surrogate: n-Nonane	*39.0*		*50.0*		*78.0*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338040-BLK1)									Prepared: 09/19/23 Analyzed: 09/19/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*46.4*		*50.0*		*92.8*	*50-200*			
LCS (2338040-BS1)									Prepared: 09/19/23 Analyzed: 09/19/23
Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	*47.8*		*50.0*		*95.6*	*50-200*			
Matrix Spike (2338040-MS1)				**Source: E309128-02**					Prepared: 09/19/23 Analyzed: 09/19/23
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	*40.4*		*50.0*		*80.9*	*50-200*			
Matrix Spike Dup (2338040-MSD1)				**Source: E309128-02**					Prepared: 09/19/23 Analyzed: 09/19/23
Diesel Range Organics (C10-C28)	245	25.0	250	ND	98.2	38-132	3.89	20	
Surrogate: n-Nonane	*43.9*		*50.0*		*87.7*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338030-BLK1)									Prepared: 09/19/23 Analyzed: 09/19/23
Chloride	ND	20.0							
LCS (2338030-BS1)									Prepared: 09/19/23 Analyzed: 09/19/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2338030-MS1)				**Source: E309132-01**					Prepared: 09/19/23 Analyzed: 09/19/23
Chloride	300	40.0	250	59.1	96.2	80-120			
Matrix Spike Dup (2338030-MSD1)				**Source: E309132-01**					Prepared: 09/19/23 Analyzed: 09/19/23
Chloride	307	40.0	250	59.1	99.0	80-120	2.29	20	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/20/2023 3:37:55PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338034-BLK1)									Prepared: 09/19/23 Analyzed: 09/20/23
Chloride	ND	20.0							
LCS (2338034-BS1)									Prepared: 09/19/23 Analyzed: 09/20/23
Chloride	262	20.0	250		105	90-110			
Matrix Spike (2338034-MS1)				**Source: E309132-21**					Prepared: 09/19/23 Analyzed: 09/20/23
Chloride	740	20.0	250	488	101	80-120			
Matrix Spike Dup (2338034-MSD1)				**Source: E309132-21**					Prepared: 09/19/23 Analyzed: 09/20/23
Chloride	745	20.0	250	488	103	80-120	0.784	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	09/20/23 15:37

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project information

Chain of Custody

Client: MACK ENERGY
Project: WEST MOUNT #1
Project Manager: Natalie Gladden
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E309132
Job Number 21040.0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM X | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
	9/14/23	S	1	SP 25 SURF	1	
				SP 26 SURF	2	
				SP 27 SURF	3	
				SP 28 SURF	4	
				SP 29 SURF	5	
				SP 30 SURF	6	
				SP 31 SURF	7	
				SP 32 SURF	8	
				SP 33 SURF	9	
				SP 34 SURF	10	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVAS

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9/14/23		Michelle Gonzalez	9-18-23	1430
Michelle Gonzalez	9-18-23	1645		9.18.23	1730
	9.18.23	2400	Caitlin Mac	9.19.23	8:20

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Page 184 of 1080

Project Information | Chain of Custody | Page 2 of 3

Client: MACK ENERGY
Project: WEST MONTH #1
Project Manager: Natalie Gladden
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO#: E309132
Job Number: 200416.0001

TAT: 1D | 2D (X) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (X) | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM (X) | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
	9/14/23	S	1	SP 35 SURF	11	
				SP 36 SURF	12	
				SP 37 SURF	13	
				SP 38 SURF	14	
				SP 39 SURF	15	
				SP 40 SURF	16	
				SP 41 SURF	17	
				SP 42 SURF	18	
				SP 43 SURF	19	
				SP 44 SURF	20	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. Rivera

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9/14/23		Michelle Garcia	9-18-23	1430
Michelle Garcia	9-18-23	1645	Andrew Mesa	9.18.23	1730
Andrew Mesa	9.18.23	2400	Cecilia Mena	9.19.23	8:20

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only
Received on ice: (Y) / N
T1: T2: T3:
AVG Temp °C: 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Received by OCD: 5/14/2025 8:53:25 AM

Released to Imaging: 7/7/2025 2:18:32 PM

Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client: MACK ENERGY
Project: WEST MOUNT #1
Project Manager: Natalie Gladden
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E309132
Job Number 20046.0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
	9/14/23	S	1	SP 45	21	
				SP 46	22	
				SP 47	23	
				SP 48	24	
				SP 49	25	
	9/14/23	S	1	SP 50	26	

BGDOC NM: X (SP 45 through SP 50)
Chloride 300.0: X (SP 50)

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. Rivas

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9/14/23		Michelle Gonzalez	9-18-23	1430
Michelle Gonzalez	9-18-23	1645	Andrew Mesa	9.18.23	1730
Andrew Mesa	9.18.23	2400	Caitlan Mesa	9.19.23	8:20

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Envirotech Analytical Laboratory

Printed: 9/19/2023 9:45:18AM

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:	09/19/23 08:20	Work Order ID:	E309132
Phone:	(575) 390-6397	Date Logged In:	09/18/23 15:11	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	09/20/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Time sampled is not documented on the COC by client.

Client Instruction

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

Date

envirotech 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:	West Mount #1
Work Order:	E309140
Job Number:	20046-0001
Received:	9/20/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/21/23

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: 9/21/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E309140
Date Received: 9/20/2023 8:15:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/20/2023 8:15:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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
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Cell: 775-287-1762
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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	09/21/23 14:32

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1 - Surf	E309140-01A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW2 - Surf	E309140-02A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW3 - Surf	E309140-03A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW4 - Surf	E309140-04A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW5 - Surf	E309140-05A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW6 - Surf	E309140-06A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW7 - Surf	E309140-07A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW8 - Surf	E309140-08A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW9 - Surf	E309140-09A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW10 - Surf	E309140-10A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW11 - Surf	E309140-11A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW12 - Surf	E309140-12A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW13 - Surf	E309140-13A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW14 - Surf	E309140-14A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW15 - Surf	E309140-15A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW16 - Surf	E309140-16A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW17 - Surf	E309140-17A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW18 - Surf	E309140-18A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW19 - Surf	E309140-19A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW20 - Surf	E309140-20A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW21 - Surf	E309140-21A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW22 - Surf	E309140-22A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW23 - Surf	E309140-23A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW24 - Surf	E309140-24A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW25 - Surf	E309140-25A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW26 - Surf	E309140-26A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW27 - Surf	E309140-27A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW28 - Surf	E309140-28A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW29 - Surf	E309140-29A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.
SW30 - Surf	E309140-30A	Soil	09/18/23	09/20/23	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW1 - Surf

E309140-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.6 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.5 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*89.9 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**396**	20.0	1	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW2 - Surf

E309140-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.0 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*80.4 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**4670**	100	5	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW3 - Surf

E309140-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.3 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*85.3 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**54.6**	20.0	1	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW4 - Surf

E309140-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.9 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.1 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*89.2 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**75.9**	20.0	1	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW5 - Surf

E309140-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.3 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*88.7 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**71.6**	20.0	1	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW6 - Surf

E309140-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.9 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.8 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*84.9 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**66.2**	20.0	1	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW7 - Surf

E309140-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.4 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.9 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*87.0 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	ND	20.0	1	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW8 - Surf

E309140-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.9 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.4 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*85.5 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**38.9**	20.0	1	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW9 - Surf

E309140-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.7 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*88.0 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**356**	200	10	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW10 - Surf

E309140-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.6 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*86.0 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**4160**	200	10	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW11 - Surf

E309140-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.9 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.4 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*85.1 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**2760**	100	5	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW12 - Surf

E309140-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.4 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.0 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*83.3 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**3420**	400	20	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW13 - Surf

E309140-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.6 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.2 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*86.2 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**507**	20.0	1	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW14 - Surf

E309140-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.4 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.6 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane		*82.3 %*	*50-200*	*09/20/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**6890**	200	10	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW15 - Surf

E309140-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.6 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane		*88.1 %*	*50-200*	*09/20/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**95.3**	20.0	1	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW16 - Surf

E309140-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.2 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane		*79.9 %*	*50-200*	*09/20/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**14100**	400	20	09/20/23	09/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW17 - Surf

E309140-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.5 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.2 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane		*82.3 %*	*50-200*	*09/20/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**25400**	1000	50	09/20/23	09/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW18 - Surf

E309140-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.3 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane		*88.4 %*	*50-200*	*09/20/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**339**	20.0	1	09/20/23	09/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW19 - Surf

E309140-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.5 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane		*82.1 %*	*50-200*	*09/20/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**10200**	400	20	09/20/23	09/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW20 - Surf

E309140-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.2 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338045
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.4 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338049
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane		*87.3 %*	*50-200*	*09/20/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338051
Chloride	**76.6**	20.0	1	09/20/23	09/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW21 - Surf

E309140-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Benzene	ND	0.0250	1	09/20/23	09/20/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/20/23	
Toluene	ND	0.0250	1	09/20/23	09/20/23	
o-Xylene	ND	0.0250	1	09/20/23	09/20/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/20/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.7 %*	*70-130*	*09/20/23*	*09/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338048
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*97.2 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338050
Chloride	**7750**	400	20	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW22 - Surf

E309140-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.7 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338048
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*97.5 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338050
Chloride	ND	200	10	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW23 - Surf

E309140-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.4 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338048
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*96.1 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338050
Chloride	**124**	20.0	1	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW24 - Surf

E309140-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.2 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338048
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*94.1 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338050
Chloride	**10400**	400	20	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW25 - Surf

E309140-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.5 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338048
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*96.1 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338050
Chloride	**7320**	200	10	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW26 - Surf

E309140-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.3 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.6 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338048
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*97.5 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338050
Chloride	**52.6**	20.0	1	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW27 - Surf

E309140-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.7 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338048
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*99.4 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338050
Chloride	**33.4**	20.0	1	09/20/23	09/20/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW28 - Surf

E309140-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.2 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338048
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/20/23	
Surrogate: n-Nonane		*97.6 %*	*50-200*	*09/20/23*	*09/20/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338050
Chloride	**10400**	400	20	09/20/23	09/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW29 - Surf

E309140-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.7 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338048
Diesel Range Organics (C10-C28)	**28.4**	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane		*99.2 %*	*50-200*	*09/20/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338050
Chloride	**444**	400	20	09/20/23	09/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

SW30 - Surf

E309140-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Benzene	ND	0.0250	1	09/20/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/20/23	09/21/23	
Toluene	ND	0.0250	1	09/20/23	09/21/23	
o-Xylene	ND	0.0250	1	09/20/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/20/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/20/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.9 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2338046
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/20/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.3 %*	*70-130*	*09/20/23*	*09/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2338048
Diesel Range Organics (C10-C28)	ND	25.0	1	09/20/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/20/23	09/21/23	
Surrogate: n-Nonane		*99.6 %*	*50-200*	*09/20/23*	*09/21/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2338050
Chloride	**1370**	400	20	09/20/23	09/21/23	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338045-BLK1)									Prepared: 09/20/23 Analyzed: 09/20/23
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	*7.51*		*8.00*		*93.9*	*70-130*			
LCS (2338045-BS1)									Prepared: 09/20/23 Analyzed: 09/20/23
Benzene	4.25	0.0250	5.00		85.1	70-130			
Ethylbenzene	4.41	0.0250	5.00		88.1	70-130			
Toluene	4.39	0.0250	5.00		87.8	70-130			
o-Xylene	4.44	0.0250	5.00		88.8	70-130			
p,m-Xylene	9.00	0.0500	10.0		90.0	70-130			
Total Xylenes	13.4	0.0250	15.0		89.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.51*		*8.00*		*93.8*	*70-130*			
Matrix Spike (2338045-MS1)				**Source: E309140-09**					Prepared: 09/20/23 Analyzed: 09/20/23
Benzene	4.70	0.0250	5.00	ND	94.1	54-133			
Ethylbenzene	4.88	0.0250	5.00	ND	97.5	61-133			
Toluene	4.85	0.0250	5.00	ND	97.1	61-130			
o-Xylene	4.88	0.0250	5.00	ND	97.7	63-131			
p,m-Xylene	9.94	0.0500	10.0	ND	99.4	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.56*		*8.00*		*94.5*	*70-130*			
Matrix Spike Dup (2338045-MSD1)				**Source: E309140-09**					Prepared: 09/20/23 Analyzed: 09/20/23
Benzene	4.21	0.0250	5.00	ND	84.1	54-133	11.1	20	
Ethylbenzene	4.38	0.0250	5.00	ND	87.6	61-133	10.7	20	
Toluene	4.35	0.0250	5.00	ND	87.1	61-130	10.9	20	
o-Xylene	4.40	0.0250	5.00	ND	88.1	63-131	10.3	20	
p,m-Xylene	8.95	0.0500	10.0	ND	89.5	63-131	10.4	20	
Total Xylenes	13.4	0.0250	15.0	ND	89.1	63-131	10.4	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.59*		*8.00*		*94.9*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338046-BLK1)									Prepared: 09/20/23 Analyzed: 09/20/23
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	*7.44*		*8.00*		*93.0*	*70-130*			
LCS (2338046-BS1)									Prepared: 09/20/23 Analyzed: 09/20/23
Benzene	3.98	0.0250	5.00		79.6	70-130			
Ethylbenzene	4.05	0.0250	5.00		81.1	70-130			
Toluene	4.14	0.0250	5.00		82.8	70-130			
o-Xylene	4.20	0.0250	5.00		84.1	70-130			
p,m-Xylene	8.41	0.0500	10.0		84.1	70-130			
Total Xylenes	12.6	0.0250	15.0		84.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.50*		*8.00*		*93.8*	*70-130*			
Matrix Spike (2338046-MS1)				**Source: E309140-21**					Prepared: 09/20/23 Analyzed: 09/20/23
Benzene	3.91	0.0250	5.00	ND	78.2	54-133			
Ethylbenzene	3.95	0.0250	5.00	ND	79.0	61-133			
Toluene	4.06	0.0250	5.00	ND	81.2	61-130			
o-Xylene	4.16	0.0250	5.00	ND	83.2	63-131			
p,m-Xylene	8.21	0.0500	10.0	ND	82.1	63-131			
Total Xylenes	12.4	0.0250	15.0	ND	82.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.54*		*8.00*		*94.3*	*70-130*			
Matrix Spike Dup (2338046-MSD1)				**Source: E309140-21**					Prepared: 09/20/23 Analyzed: 09/20/23
Benzene	3.94	0.0250	5.00	ND	78.7	54-133	0.623	20	
Ethylbenzene	3.99	0.0250	5.00	ND	79.9	61-133	1.08	20	
Toluene	4.10	0.0250	5.00	ND	81.9	61-130	0.901	20	
o-Xylene	4.19	0.0250	5.00	ND	83.7	63-131	0.576	20	
p,m-Xylene	8.29	0.0500	10.0	ND	82.9	63-131	0.982	20	
Total Xylenes	12.5	0.0250	15.0	ND	83.2	63-131	0.846	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.50*		*8.00*		*93.8*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338045-BLK1)									Prepared: 09/20/23 Analyzed: 09/20/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.71*		*8.00*		*96.4*	*70-130*			
LCS (2338045-BS2)									Prepared: 09/20/23 Analyzed: 09/20/23
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.85*		*8.00*		*98.1*	*70-130*			
Matrix Spike (2338045-MS2)				**Source: E309140-09**					Prepared: 09/20/23 Analyzed: 09/20/23
Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.72*		*8.00*		*96.5*	*70-130*			
Matrix Spike Dup (2338045-MSD2)				**Source: E309140-09**					Prepared: 09/20/23 Analyzed: 09/20/23
Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	ND	105	70-130	3.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.80*		*8.00*		*97.6*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338046-BLK1)									Prepared: 09/20/23 Analyzed: 09/20/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.05*		*8.00*		*88.2*	*70-130*			
LCS (2338046-BS2)									Prepared: 09/20/23 Analyzed: 09/20/23
Gasoline Range Organics (C6-C10)	39.3	20.0	50.0		78.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.13*		*8.00*		*89.1*	*70-130*			
Matrix Spike (2338046-MS2)				**Source: E309140-21**					Prepared: 09/20/23 Analyzed: 09/20/23
Gasoline Range Organics (C6-C10)	42.2	20.0	50.0	ND	84.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.12*		*8.00*		*89.0*	*70-130*			
Matrix Spike Dup (2338046-MSD2)				**Source: E309140-21**					Prepared: 09/20/23 Analyzed: 09/20/23
Gasoline Range Organics (C6-C10)	41.4	20.0	50.0	ND	82.9	70-130	1.74	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.99*		*8.00*		*87.4*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338048-BLK1)									Prepared: 09/20/23 Analyzed: 09/20/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*49.7*		*50.0*		*99.5*	*50-200*			
LCS (2338048-BS1)									Prepared: 09/20/23 Analyzed: 09/20/23
Diesel Range Organics (C10-C28)	259	25.0	250		104	38-132			
Surrogate: n-Nonane	*50.8*		*50.0*		*102*	*50-200*			
Matrix Spike (2338048-MS1)				**Source: E309139-05**					Prepared: 09/20/23 Analyzed: 09/20/23
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	*46.8*		*50.0*		*93.6*	*50-200*			
Matrix Spike Dup (2338048-MSD1)				**Source: E309139-05**					Prepared: 09/20/23 Analyzed: 09/20/23
Diesel Range Organics (C10-C28)	253	25.0	250	ND	101	38-132	5.34	20	
Surrogate: n-Nonane	*45.9*		*50.0*		*91.9*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2338049-BLK1)									Prepared: 09/20/23 Analyzed: 09/20/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*47.6*		*50.0*		*95.3*	*50-200*			
LCS (2338049-BS1)									Prepared: 09/20/23 Analyzed: 09/20/23
Diesel Range Organics (C10-C28)	232	25.0	250		93.0	38-132			
Surrogate: n-Nonane	*43.5*		*50.0*		*87.0*	*50-200*			
Matrix Spike (2338049-MS1)				**Source: E309140-15**					Prepared: 09/20/23 Analyzed: 09/20/23
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.6	38-132			
Surrogate: n-Nonane	*41.1*		*50.0*		*82.3*	*50-200*			
Matrix Spike Dup (2338049-MSD1)				**Source: E309140-15**					Prepared: 09/20/23 Analyzed: 09/20/23
Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.9	38-132	2.74	20	
Surrogate: n-Nonane	*44.4*		*50.0*		*88.9*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338050-BLK1)									Prepared: 09/20/23 Analyzed: 09/20/23
Chloride	ND	20.0							
LCS (2338050-BS1)									Prepared: 09/20/23 Analyzed: 09/20/23
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2338050-MS1)				**Source: E309139-01**					Prepared: 09/20/23 Analyzed: 09/20/23
Chloride	10900	400	250	10800	42.4	80-120			M5
Matrix Spike Dup (2338050-MSD1)				**Source: E309139-01**					Prepared: 09/20/23 Analyzed: 09/20/23
Chloride	10800	400	250	10800	NR	80-120	1.23	20	M5

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/21/2023 2:32:22PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2338051-BLK1)									Prepared: 09/20/23 Analyzed: 09/20/23
Chloride	ND	20.0							
LCS (2338051-BS1)									Prepared: 09/20/23 Analyzed: 09/20/23
Chloride	247	20.0	250		99.0	90-110			
Matrix Spike (2338051-MS1)				**Source: E309140-01**					Prepared: 09/20/23 Analyzed: 09/20/23
Chloride	650	20.0	250	396	101	80-120			
Matrix Spike Dup (2338051-MSD1)				**Source: E309140-01**					Prepared: 09/20/23 Analyzed: 09/20/23
Chloride	651	20.0	250	396	102	80-120	0.146	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	09/21/23 14:32

M5	The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated 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

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information — Chain of Custody — Page 1 of 3

Client:	MACK ENERGY
Project:	WEST MOUNT #1 Gladden
Project Manager:	Natalie Gladden
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E309140 — Job Number 20046-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM X | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
	9/18/23	S	1	SW1 - SURF	1	
				SW2 - SURF	2	
				SW3 - SURF	3	
				SW4 - SURF	4	
				SW5 - SURF	5	
				SW6 - SURF	6	
				SW7 - SURF	7	
				SW8 - SURF	8	
				SW9 - SURF	9	
				SW10 - SURF	10	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9/18/23		Michelle Gonzales	9-19-23	1415
Michelle Gonzales	9-19-23	1730	Andrew Molina	9.19.23	1800
Andrew Molina	9.19.23	2400	Cartha Mora	9.20.23	8:15

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client: MACK ENERGY
Project: WEST MOUNT #1
Project Manager: Natalie Gladden
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E 309140
Job Number 20046.0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM X | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
	9/18/23	S	1	SW11 - SURF	11	
				SW12 - SURF	12	
				SW13 - SURF	13	
				SW14 - SURF	14	
				SW15 - SURF	15	
				SW16 - SURF	16	
				SW17 - SURF	17	
				SW18 - SURF	18	
				SW19 - SURF	19	
				SW20 - SURF	20	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: MIRUELA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9/18/23		Michelle Campos	9-19-23	1415
Michelle Campos	9-19-23	1730	Andrew Messo	9.19.23	1800
Andrew Messo	9.19.23	2400	Cartle Mar	9.20.23	8:15

Lab Use Only
Received on ice: Y N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client: MACK ENERGY
Project: WEST Mount Natalie Gilbreath Unit
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E309140
Job Number 20046.0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM X | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
	9/18/23	S	1	SW21 - SURF	21	
				SW22 - SURF	22	
				SW23 - SURF	23	
				SW24 - SURF	24	
				SW25 - SURF	25	
				SW26 - SURF	26	
				SW27 - SURF	27	
				SW28 - SURF	28	
				SW29 - SURF	29	
				SW30 - SURF	30	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVER

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	9/18/23		Michelle Cruz	9-19-23	1415
Michelle Cruz	9-19-23	1730	Andrew Mesa	9.19.23	1800
Andrew Mesa	9.19.23	2400	Cathe Mac	9.20.23	8:15

Lab Use Only
Received on ice: Y N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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Envirotech Analytical Laboratory

Printed: 9/20/2023 9:58:29AM

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:	09/20/23 08:15	Work Order ID:	E309140
Phone:	(575) 390-6397	Date Logged In:	09/19/23 16:07	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	09/21/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Time sampled not provided on COC per client.

Client Instruction

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

Date

envirotech 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: West Mount #1

Work Order: E311054

Job Number: 20046-0001

Received: 11/8/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/9/23

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: 11/9/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E311054
Date Received: 11/8/2023 7:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/8/2023 7:00:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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,

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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/09/23 16:21

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 51- Surf	E311054-01A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SP 52- Surf	E311054-02A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SP 53- Surf	E311054-03A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SP 54- Surf	E311054-04A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SP 55- Surf	E311054-05A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SP 56- Surf	E311054-06A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SP 57- Surf	E311054-07A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SP 58- Surf	E311054-08A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SP 59- Surf	E311054-09A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SP 60- Surf	E311054-10A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SP 61- Surf	E311054-11A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SP 62- Surf	E311054-12A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SP 63- Surf	E311054-13A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.
SP 64- Surf	E311054-14A	Soil	11/06/23	11/08/23	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

SP 51- Surf

E311054-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Benzene	ND	0.0250	1	11/08/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/09/23	
Toluene	ND	0.0250	1	11/08/23	11/09/23	
o-Xylene	ND	0.0250	1	11/08/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.5 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345053
Diesel Range Organics (C10-C28)	**36.9**	25.0	1	11/08/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/08/23	
Surrogate: n-Nonane		*97.9 %*	*50-200*	*11/08/23*	*11/08/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345062
Chloride	**29800**	2000	100	11/08/23	11/08/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

SP 52- Surf

E311054-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Benzene	ND	0.0250	1	11/08/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/09/23	
Toluene	ND	0.0250	1	11/08/23	11/09/23	
o-Xylene	ND	0.0250	1	11/08/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.7 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.9 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345053
Diesel Range Organics (C10-C28)	**32.5**	25.0	1	11/08/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/08/23	
Surrogate: n-Nonane		*111 %*	*50-200*	*11/08/23*	*11/08/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345062
Chloride	**40200**	2000	100	11/08/23	11/08/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

SP 53- Surf

E311054-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Benzene	ND	0.0250	1	11/08/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/09/23	
Toluene	ND	0.0250	1	11/08/23	11/09/23	
o-Xylene	ND	0.0250	1	11/08/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345053
Diesel Range Organics (C10-C28)	**27.2**	25.0	1	11/08/23	11/08/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/08/23	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/08/23*	*11/08/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345062
Chloride	**40400**	2000	100	11/08/23	11/08/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

SP 54- Surf

E311054-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Benzene	ND	0.0250	1	11/08/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/09/23	
Toluene	ND	0.0250	1	11/08/23	11/09/23	
o-Xylene	ND	0.0250	1	11/08/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.6 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.9 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345053
Diesel Range Organics (C10-C28)	**29.8**	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		*99.5 %*	*50-200*	*11/08/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345062
Chloride	**70100**	4000	200	11/08/23	11/08/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

SP 55- Surf

E311054-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Benzene	ND	0.0250	1	11/08/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/09/23	
Toluene	ND	0.0250	1	11/08/23	11/09/23	
o-Xylene	ND	0.0250	1	11/08/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.7 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.9 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345053
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		*99.6 %*	*50-200*	*11/08/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345062
Chloride	**19900**	1000	50	11/08/23	11/08/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

SP 56- Surf

E311054-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Benzene	ND	0.0250	1	11/08/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/09/23	
Toluene	ND	0.0250	1	11/08/23	11/09/23	
o-Xylene	ND	0.0250	1	11/08/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.0 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345053
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/08/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345062
Chloride	**1170**	400	20	11/08/23	11/08/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

SP 57- Surf

E311054-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Benzene	ND	0.0250	1	11/08/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/09/23	
Toluene	ND	0.0250	1	11/08/23	11/09/23	
o-Xylene	ND	0.0250	1	11/08/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*91.8 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.2 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345053
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/08/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345062
Chloride	**11100**	400	20	11/08/23	11/08/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

SP 58- Surf

E311054-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Benzene	ND	0.0250	1	11/08/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/09/23	
Toluene	ND	0.0250	1	11/08/23	11/09/23	
o-Xylene	ND	0.0250	1	11/08/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.1 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345053
Diesel Range Organics (C10-C28)	**48.2**	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/08/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345062
Chloride	**38000**	2000	100	11/08/23	11/08/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

SP 59- Surf

E311054-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Benzene	ND	0.0250	1	11/08/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/09/23	
Toluene	ND	0.0250	1	11/08/23	11/09/23	
o-Xylene	ND	0.0250	1	11/08/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.9 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345053
Diesel Range Organics (C10-C28)	**80.1**	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	**53.3**	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		*92.6 %*	*50-200*	*11/08/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345062
Chloride	**14100**	1000	50	11/08/23	11/08/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

SP 60- Surf

E311054-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Benzene	ND	0.0250	1	11/08/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/09/23	
Toluene	ND	0.0250	1	11/08/23	11/09/23	
o-Xylene	ND	0.0250	1	11/08/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.9 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345053
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		*96.2 %*	*50-200*	*11/08/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345062
Chloride	**31300**	2000	100	11/08/23	11/08/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

SP 61- Surf

E311054-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Benzene	ND	0.0250	1	11/08/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/09/23	
Toluene	ND	0.0250	1	11/08/23	11/09/23	
o-Xylene	ND	0.0250	1	11/08/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.9 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.9 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345053
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/08/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345062
Chloride	**46300**	4000	200	11/08/23	11/08/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

SP 62- Surf

E311054-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Benzene	ND	0.0250	1	11/08/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/09/23	
Toluene	ND	0.0250	1	11/08/23	11/09/23	
o-Xylene	ND	0.0250	1	11/08/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.6 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.3 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345053
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/08/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345062
Chloride	ND	200	10	11/08/23	11/08/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

SP 63- Surf

E311054-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Benzene	ND	0.0250	1	11/08/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/09/23	
Toluene	ND	0.0250	1	11/08/23	11/09/23	
o-Xylene	ND	0.0250	1	11/08/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.6 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345053
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		*94.7 %*	*50-200*	*11/08/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345062
Chloride	**33800**	2000	100	11/08/23	11/08/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

SP 64- Surf

E311054-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Benzene	ND	0.0250	1	11/08/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/08/23	11/09/23	
Toluene	ND	0.0250	1	11/08/23	11/09/23	
o-Xylene	ND	0.0250	1	11/08/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/08/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/08/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345060
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*70-130*	*11/08/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345053
Diesel Range Organics (C10-C28)	**27.7**	25.0	1	11/08/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/23	11/09/23	
Surrogate: n-Nonane		*107 %*	*50-200*	*11/08/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345062
Chloride	**26200**	2000	100	11/08/23	11/08/23	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345060-BLK1)									Prepared: 11/08/23 Analyzed: 11/09/23
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	*7.69*		*8.00*		*96.1*	*70-130*			
LCS (2345060-BS1)									Prepared: 11/08/23 Analyzed: 11/09/23
Benzene	5.16	0.0250	5.00		103	70-130			
Ethylbenzene	5.23	0.0250	5.00		105	70-130			
Toluene	5.26	0.0250	5.00		105	70-130			
o-Xylene	5.25	0.0250	5.00		105	70-130			
p,m-Xylene	10.7	0.0500	10.0		107	70-130			
Total Xylenes	15.9	0.0250	15.0		106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.82*		*8.00*		*97.8*	*70-130*			
Matrix Spike (2345060-MS1)				**Source: E311054-04**					Prepared: 11/08/23 Analyzed: 11/09/23
Benzene	5.03	0.0250	5.00	ND	101	54-133			
Ethylbenzene	5.13	0.0250	5.00	ND	103	61-133			
Toluene	5.13	0.0250	5.00	ND	103	61-130			
o-Xylene	5.14	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.58*		*8.00*		*94.8*	*70-130*			
Matrix Spike Dup (2345060-MSD1)				**Source: E311054-04**					Prepared: 11/08/23 Analyzed: 11/09/23
Benzene	5.18	0.0250	5.00	ND	104	54-133	2.83	20	
Ethylbenzene	5.26	0.0250	5.00	ND	105	61-133	2.61	20	
Toluene	5.28	0.0250	5.00	ND	106	61-130	2.73	20	
o-Xylene	5.26	0.0250	5.00	ND	105	63-131	2.47	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	2.47	20	
Total Xylenes	16.0	0.0250	15.0	ND	106	63-131	2.47	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.65*		*8.00*		*95.6*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345060-BLK1)									Prepared: 11/08/23 Analyzed: 11/09/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.28*		*8.00*		*91.1*	*70-130*			
LCS (2345060-BS2)									Prepared: 11/08/23 Analyzed: 11/09/23
Gasoline Range Organics (C6-C10)	53.2	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.33*		*8.00*		*91.7*	*70-130*			
Matrix Spike (2345060-MS2)				**Source: E311054-04**					Prepared: 11/08/23 Analyzed: 11/09/23
Gasoline Range Organics (C6-C10)	52.6	20.0	50.0	ND	105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.29*		*8.00*		*91.1*	*70-130*			
Matrix Spike Dup (2345060-MSD2)				**Source: E311054-04**					Prepared: 11/08/23 Analyzed: 11/09/23
Gasoline Range Organics (C6-C10)	51.3	20.0	50.0	ND	103	70-130	2.53	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.29*		*8.00*		*91.2*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345053-BLK1)									Prepared: 11/08/23 Analyzed: 11/08/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*49.6*		*50.0*		*99.2*	*50-200*			
LCS (2345053-BS1)									Prepared: 11/08/23 Analyzed: 11/08/23
Diesel Range Organics (C10-C28)	229	25.0	250		91.5	38-132			
Surrogate: n-Nonane	*47.3*		*50.0*		*94.7*	*50-200*			
Matrix Spike (2345053-MS1)				**Source: E311054-07**					Prepared: 11/08/23 Analyzed: 11/08/23
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	*44.9*		*50.0*		*89.8*	*50-200*			
Matrix Spike Dup (2345053-MSD1)				**Source: E311054-07**					Prepared: 11/08/23 Analyzed: 11/08/23
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	38-132	0.577	20	
Surrogate: n-Nonane	*52.2*		*50.0*		*104*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/9/2023 4:21:27PM

Anions by EPA 300.0/9056A

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 (2345062-BLK1)									Prepared: 11/08/23 Analyzed: 11/08/23
Chloride	ND	20.0							
LCS (2345062-BS1)									Prepared: 11/08/23 Analyzed: 11/08/23
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2345062-MS1)				**Source: E311054-03**					Prepared: 11/08/23 Analyzed: 11/08/23
Chloride	37100	2000	250	40400	NR	80-120			M4
Matrix Spike Dup (2345062-MSD1)				**Source: E311054-03**					Prepared: 11/08/23 Analyzed: 11/08/23
Chloride	36700	2000	250	40400	NR	80-120	0.845	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

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/09/23 16:21

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client: Mack Energy
Project: West Mount #1
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E311054
Job Number 200460-0001

TAT: 1D | 2D (6) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (Y) | CO | UT | AZ | TX

Analysis and Method

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	BGDOC NM	BGDOC TX	Remarks
	11/06/23	S	1	SP 51 - Surf	1							X		
				SP 52 - Surf	2									
				SP 53 - Surf	3									
				SP 54 - Surf	4									
				SP 55 - Surf	5									
				SP 56 - Surf	6									
				SP 57 - Surf	7									
				SP 58 - Surf	8									
				SP 59 - Surf	9									
	11/06/23	S	1	SP 60 - Surf	10							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Josi Alvarez

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Josi Alvarez	11/06/23		Michelle Gough	11-7-23	1315
Michelle Gough	11-7-23	1700	Andrew Russo	11.7.23	1200
Andrew Russo	11.7.23	2400	Jordan Mitchell	11/8/23	7:45

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

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Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client: Noble Energy
Project: West Mount #1
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E311054
Job Number 20046-0001

TAT: 1D ✓ | 2D | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM ✓ | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	11/06/23	S	1	SPCe1 - Surf	11	0	
	1	1	1	SPCe2 - Surf	12	1	
	1	1	1	SPCe3 - Surf	13	1	
	11/06/23	S	1	SPCe4 - Surf	14	0	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally misla[illegible] the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Jose R Alvarez

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jose R Alvarez	11/06/23		Michelle Garza	11-7-23	1315
Michelle Garza	11-7-23	1700	Andrew Escobar	11.7.23	1700
Andrew Escobar	11.7.23	2400	[signature]	11/8/23	7:45

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

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 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

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Envirotech Analytical Laboratory

Printed: 11/8/2023 8:34:47AM

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:	11/08/23 07:00	Work Order ID:	E311054
Phone:	(575) 390-6397	Date Logged In:	11/07/23 14:30	Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	11/09/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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: N/A

Comments/Resolution

Time sampled not provided on COC per client.

Client Instruction

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

Date

envirotech 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: West Mount #1

Work Order: E311063

Job Number: 20046-0001

Received: 11/9/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/10/23

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: 11/10/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E311063
Date Received: 11/9/2023 8:15:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/9/2023 8:15:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/23 15:58

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW 31-SURF	E311063-01A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 32- Surf	E311063-02A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 33- Surf	E311063-03A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 34- Surf	E311063-04A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 35- Surf	E311063-05A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 36- Surf	E311063-06A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 37- Surf	E311063-07A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 38_ Surf	E311063-08A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 39- Surf	E311063-09A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 40- Surf	E311063-10A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 41- Surf	E311063-11A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 42- Surf	E311063-12A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 43- Surf	E311063-13A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SW 44-Surf	E311063-14A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

SW 31-SURF

E311063-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Benzene	ND	0.0250	1	11/09/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/09/23	
Toluene	ND	0.0250	1	11/09/23	11/09/23	
o-Xylene	ND	0.0250	1	11/09/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.7 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.1 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345077
Diesel Range Organics (C10-C28)	**25.6**	25.0	1	11/09/23	11/09/23	T17
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/09/23	
Surrogate: n-Nonane		*89.9 %*	*50-200*	*11/09/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345085
Chloride	**32100**	2000	100	11/09/23	11/10/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

SW 32- Surf

E311063-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Benzene	ND	0.0250	1	11/09/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/09/23	
Toluene	ND	0.0250	1	11/09/23	11/09/23	
o-Xylene	ND	0.0250	1	11/09/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.6 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.8 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/09/23	
Surrogate: n-Nonane		*96.7 %*	*50-200*	*11/09/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345085
Chloride	**5240**	200	10	11/09/23	11/10/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

SW 33- Surf

E311063-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Benzene	ND	0.0250	1	11/09/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/09/23	
Toluene	ND	0.0250	1	11/09/23	11/09/23	
o-Xylene	ND	0.0250	1	11/09/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.9 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.1 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/09/23	
Surrogate: n-Nonane		*94.5 %*	*50-200*	*11/09/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345085
Chloride	**548**	20.0	1	11/09/23	11/10/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

SW 34- Surf

E311063-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Benzene	ND	0.0250	1	11/09/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/09/23	
Toluene	ND	0.0250	1	11/09/23	11/09/23	
o-Xylene	ND	0.0250	1	11/09/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.4 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.8 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345077
Diesel Range Organics (C10-C28)	**79.1**	25.0	1	11/09/23	11/09/23	T17
Oil Range Organics (C28-C36)	**107**	50.0	1	11/09/23	11/09/23	T17
Surrogate: n-Nonane		*86.0 %*	*50-200*	*11/09/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345085
Chloride	**44200**	2000	100	11/09/23	11/10/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

SW 35- Surf

E311063-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Benzene	ND	0.0250	1	11/09/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/09/23	
Toluene	ND	0.0250	1	11/09/23	11/09/23	
o-Xylene	ND	0.0250	1	11/09/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.9 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.5 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/09/23	
Surrogate: n-Nonane		*90.7 %*	*50-200*	*11/09/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345085
Chloride	**21000**	1000	50	11/09/23	11/10/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

SW 36- Surf

E311063-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Benzene	ND	0.0250	1	11/09/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/09/23	
Toluene	ND	0.0250	1	11/09/23	11/09/23	
o-Xylene	ND	0.0250	1	11/09/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.5 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.0 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345077
Diesel Range Organics (C10-C28)	**30.6**	25.0	1	11/09/23	11/09/23	T17
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/09/23	
Surrogate: n-Nonane		*89.7 %*	*50-200*	*11/09/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345085
Chloride	**25200**	2000	100	11/09/23	11/10/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

SW 37- Surf

E311063-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Benzene	ND	0.0250	1	11/09/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/09/23	
Toluene	ND	0.0250	1	11/09/23	11/09/23	
o-Xylene	ND	0.0250	1	11/09/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.0 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345077
Diesel Range Organics (C10-C28)	**26.8**	25.0	1	11/09/23	11/09/23	T17
Oil Range Organics (C28-C36)	**63.1**	50.0	1	11/09/23	11/09/23	T17
Surrogate: n-Nonane		*88.8 %*	*50-200*	*11/09/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345085
Chloride	**8800**	1000	50	11/09/23	11/10/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

SW 38_ Surf

E311063-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Benzene	ND	0.0250	1	11/09/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/09/23	
Toluene	ND	0.0250	1	11/09/23	11/09/23	
o-Xylene	ND	0.0250	1	11/09/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.3 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.0 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345077
Diesel Range Organics (C10-C28)	**42.2**	25.0	1	11/09/23	11/09/23	T17
Oil Range Organics (C28-C36)	**58.5**	50.0	1	11/09/23	11/09/23	T17
Surrogate: n-Nonane		*87.3 %*	*50-200*	*11/09/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345085
Chloride	**30300**	2000	100	11/09/23	11/10/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

SW 39- Surf

E311063-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Benzene	ND	0.0250	1	11/09/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/09/23	
Toluene	ND	0.0250	1	11/09/23	11/09/23	
o-Xylene	ND	0.0250	1	11/09/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.8 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/09/23	
Surrogate: n-Nonane		*88.2 %*	*50-200*	*11/09/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345085
Chloride	**13900**	1000	50	11/09/23	11/10/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

SW 40- Surf

E311063-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Benzene	ND	0.0250	1	11/09/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/09/23	
Toluene	ND	0.0250	1	11/09/23	11/09/23	
o-Xylene	ND	0.0250	1	11/09/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.6 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.1 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/09/23	
Surrogate: n-Nonane		*91.5 %*	*50-200*	*11/09/23*	*11/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345085
Chloride	ND	40.0	2	11/09/23	11/10/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

SW 41- Surf

E311063-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Benzene	ND	0.0250	1	11/09/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/09/23	
Toluene	ND	0.0250	1	11/09/23	11/09/23	
o-Xylene	ND	0.0250	1	11/09/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.1 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/10/23	
Surrogate: n-Nonane		*92.3 %*	*50-200*	*11/09/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345085
Chloride	ND	200	10	11/09/23	11/10/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

SW 42- Surf

E311063-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Benzene	ND	0.0250	1	11/09/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/09/23	
Toluene	ND	0.0250	1	11/09/23	11/09/23	
o-Xylene	ND	0.0250	1	11/09/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.2 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.8 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/10/23	
Surrogate: n-Nonane		*91.2 %*	*50-200*	*11/09/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345085
Chloride	**10600**	400	20	11/09/23	11/10/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

SW 43- Surf

E311063-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Benzene	ND	0.0250	1	11/09/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/09/23	
Toluene	ND	0.0250	1	11/09/23	11/09/23	
o-Xylene	ND	0.0250	1	11/09/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.3 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/10/23	
Surrogate: n-Nonane		*91.2 %*	*50-200*	*11/09/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345085
Chloride	ND	40.0	2	11/09/23	11/10/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

SW 44-Surf

E311063-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Benzene	ND	0.0250	1	11/09/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/09/23	
Toluene	ND	0.0250	1	11/09/23	11/09/23	
o-Xylene	ND	0.0250	1	11/09/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.4 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.4 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/10/23	
Surrogate: n-Nonane		*85.9 %*	*50-200*	*11/09/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345085
Chloride	**29700**	1000	50	11/09/23	11/10/23	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345074-BLK1)									Prepared: 11/09/23 Analyzed: 11/09/23
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	*7.64*		*8.00*		*95.5*	*70-130*			
LCS (2345074-BS1)									Prepared: 11/09/23 Analyzed: 11/09/23
Benzene	4.76	0.0250	5.00		95.2	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.1	70-130			
Toluene	4.93	0.0250	5.00		98.5	70-130			
o-Xylene	4.97	0.0250	5.00		99.4	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.54*		*8.00*		*94.3*	*70-130*			
Matrix Spike (2345074-MS1)				**Source: E311063-07**					Prepared: 11/09/23 Analyzed: 11/09/23
Benzene	5.16	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.38	0.0250	5.00	ND	108	61-133			
Toluene	5.36	0.0250	5.00	ND	107	61-130			
o-Xylene	5.38	0.0250	5.00	ND	108	63-131			
p,m-Xylene	10.9	0.0500	10.0	ND	109	63-131			
Total Xylenes	16.3	0.0250	15.0	ND	109	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.68*		*8.00*		*96.0*	*70-130*			
Matrix Spike Dup (2345074-MSD1)				**Source: E311063-07**					Prepared: 11/09/23 Analyzed: 11/09/23
Benzene	4.86	0.0250	5.00	ND	97.3	54-133	5.96	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	5.92	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	6.06	20	
o-Xylene	5.07	0.0250	5.00	ND	101	63-131	5.92	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	5.65	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	5.74	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.69*		*8.00*		*96.1*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345074-BLK1)									Prepared: 11/09/23 Analyzed: 11/09/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.23*		*8.00*		*90.3*	*70-130*			
LCS (2345074-BS2)									Prepared: 11/09/23 Analyzed: 11/09/23
Gasoline Range Organics (C6-C10)	52.1	20.0	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.24*		*8.00*		*90.4*	*70-130*			
Matrix Spike (2345074-MS2)				**Source: E311063-07**					Prepared: 11/09/23 Analyzed: 11/09/23
Gasoline Range Organics (C6-C10)	53.0	20.0	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.25*		*8.00*		*90.6*	*70-130*			
Matrix Spike Dup (2345074-MSD2)				**Source: E311063-07**					Prepared: 11/09/23 Analyzed: 11/09/23
Gasoline Range Organics (C6-C10)	52.6	20.0	50.0	ND	105	70-130	0.635	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.12*		*8.00*		*89.1*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345077-BLK1)									Prepared: 11/09/23 Analyzed: 11/09/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*44.3*		*50.0*		*88.6*	*50-200*			
LCS (2345077-BS1)									Prepared: 11/09/23 Analyzed: 11/09/23
Diesel Range Organics (C10-C28)	235	25.0	250		94.2	38-132			
Surrogate: n-Nonane	*44.2*		*50.0*		*88.5*	*50-200*			
Matrix Spike (2345077-MS1)				**Source: E311063-09**					Prepared: 11/09/23 Analyzed: 11/09/23
Diesel Range Organics (C10-C28)	279	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	*48.6*		*50.0*		*97.1*	*50-200*			
Matrix Spike Dup (2345077-MSD1)				**Source: E311063-09**					Prepared: 11/09/23 Analyzed: 11/09/23
Diesel Range Organics (C10-C28)	254	25.0	250	ND	101	38-132	9.36	20	
Surrogate: n-Nonane	*45.7*		*50.0*		*91.3*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 3:58:21PM

Anions by EPA 300.0/9056A

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 (2345085-BLK1)									Prepared: 11/09/23 Analyzed: 11/10/23
Chloride	ND	20.0							
LCS (2345085-BS1)									Prepared: 11/09/23 Analyzed: 11/10/23
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2345085-MS1)				**Source: E311063-08**					Prepared: 11/09/23 Analyzed: 11/10/23
Chloride	28400	2000	250	30300	NR	80-120			M4
Matrix Spike Dup (2345085-MSD1)				**Source: E311063-08**					Prepared: 11/09/23 Analyzed: 11/10/23
Chloride	28500	2000	250	30300	NR	80-120	0.426	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

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/23 15:58

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.
T17	The sample chromatographic pattern does not resemble the typical fuel standard used for quantitation.
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: 7/7/2025 2:18:32 PM

Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client: Mack Energy
Project: West Mallet #1
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E311063
Job Number 20046-001

TAT: 1D | 2D | 3D | Standard — 2D

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX — NM

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	11/07/23	S	1	SW 31 - Surf	1	X	
				SW 32 - Surf	2		
				SW 33 - Surf	3		
				SW 34 - Surf	4		
				SW 35 - Surf	5		
				SW 36 - Surf	6		
				SW 37 Surf	7		
				SW 38 - Surf	8		
				SW 39 - Surf	9		
	11/07/23	S	1	SW 40 - Surf	10	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Jose R Alvarez

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jose R Alvarez	11/07/23		Michelle Gaye	11-8-23	1380
Michelle Gaye	11-8-23	1645	Andrew Moss	11.8.23	1700
Andrew Moss	11.8.23	2400	Jmontano	11/9/23	8:15

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Page 2 of 3

Client: Mack Energy
Project: West Mouth #1
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E311063
Job Number 20046-00

TAT: 1D | 2D | 3D | Standard — 2D

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	11/07/23	S	1	Sw 41 - Surf	11	X	
	"	"	"	Sw 42 - Surf	12	"	
	"	"	"	Sw 43 - Surf	13	"	
	11/07/23	S	1	Sw 44 - Surf	14	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Jose R Alvarez

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jose R Alvarez	11/07/23		Michelle Gaytan	11-8-23	1330
Michelle Gaytan	11-8-23	1645	Andrew Gibbo	11.8.23	1700
Andrew Gibbo	11.8.23	2400	[signature]	11/9/23	8:15

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Envirotech Analytical Laboratory

Printed: 11/9/2023 10:55:59AM

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:	11/09/23 08:15	Work Order ID:	E311063
Phone:	(575) 390-6397	Date Logged In:	11/08/23 16:07	Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	11/10/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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: N/A

Comments/Resolution

Time sampled not provided on COC per client.

Client Instruction

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

Date

envirotech Inc.

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 #1
Work Order:	E311064
Job Number:	20046-0001
Received:	11/9/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/10/23

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: 11/10/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E311064
Date Received: 11/9/2023 8:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/9/2023 8:30:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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
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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 #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/23 17:08

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 20-10'	E311064-01A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.
SP 21-6'	E311064-02A	Soil	11/07/23	11/09/23	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 5:08:36PM

SP 20-10'

E311064-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Benzene	ND	0.0250	1	11/09/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/09/23	
Toluene	ND	0.0250	1	11/09/23	11/09/23	
o-Xylene	ND	0.0250	1	11/09/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.6 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/10/23	
Surrogate: n-Nonane		*87.5 %*	*50-200*	*11/09/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345085
Chloride	ND	200	10	11/09/23	11/10/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 5:08:36PM

SP 21-6'

E311064-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Benzene	ND	0.0250	1	11/09/23	11/09/23	
Ethylbenzene	ND	0.0250	1	11/09/23	11/09/23	
Toluene	ND	0.0250	1	11/09/23	11/09/23	
o-Xylene	ND	0.0250	1	11/09/23	11/09/23	
p,m-Xylene	ND	0.0500	1	11/09/23	11/09/23	
Total Xylenes	ND	0.0250	1	11/09/23	11/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.3 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/23	11/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.7 %*	*70-130*	*11/09/23*	*11/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345077
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/23	11/10/23	
Surrogate: n-Nonane		*88.7 %*	*50-200*	*11/09/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345085
Chloride	ND	200	10	11/09/23	11/10/23	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 5:08:36PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345074-BLK1)									Prepared: 11/09/23 Analyzed: 11/09/23
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	*7.64*		*8.00*		*95.5*	*70-130*			
LCS (2345074-BS1)									Prepared: 11/09/23 Analyzed: 11/09/23
Benzene	4.76	0.0250	5.00		95.2	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.1	70-130			
Toluene	4.93	0.0250	5.00		98.5	70-130			
o-Xylene	4.97	0.0250	5.00		99.4	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.54*		*8.00*		*94.3*	*70-130*			
Matrix Spike (2345074-MS1)				**Source: E311063-07**					Prepared: 11/09/23 Analyzed: 11/09/23
Benzene	5.16	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.38	0.0250	5.00	ND	108	61-133			
Toluene	5.36	0.0250	5.00	ND	107	61-130			
o-Xylene	5.38	0.0250	5.00	ND	108	63-131			
p,m-Xylene	10.9	0.0500	10.0	ND	109	63-131			
Total Xylenes	16.3	0.0250	15.0	ND	109	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.68*		*8.00*		*96.0*	*70-130*			
Matrix Spike Dup (2345074-MSD1)				**Source: E311063-07**					Prepared: 11/09/23 Analyzed: 11/09/23
Benzene	4.86	0.0250	5.00	ND	97.3	54-133	5.96	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	5.92	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	6.06	20	
o-Xylene	5.07	0.0250	5.00	ND	101	63-131	5.92	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	5.65	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	5.74	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.69*		*8.00*		*96.1*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 5:08:36PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345074-BLK1)									Prepared: 11/09/23 Analyzed: 11/09/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.23*		*8.00*		*90.3*	*70-130*			
LCS (2345074-BS2)									Prepared: 11/09/23 Analyzed: 11/09/23
Gasoline Range Organics (C6-C10)	52.1	20.0	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.24*		*8.00*		*90.4*	*70-130*			
Matrix Spike (2345074-MS2)				**Source: E311063-07**					Prepared: 11/09/23 Analyzed: 11/09/23
Gasoline Range Organics (C6-C10)	53.0	20.0	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.25*		*8.00*		*90.6*	*70-130*			
Matrix Spike Dup (2345074-MSD2)				**Source: E311063-07**					Prepared: 11/09/23 Analyzed: 11/09/23
Gasoline Range Organics (C6-C10)	52.6	20.0	50.0	ND	105	70-130	0.635	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.12*		*8.00*		*89.1*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 5:08:36PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345077-BLK1)									Prepared: 11/09/23 Analyzed: 11/09/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*44.3*		*50.0*		*88.6*	*50-200*			
LCS (2345077-BS1)									Prepared: 11/09/23 Analyzed: 11/09/23
Diesel Range Organics (C10-C28)	235	25.0	250		94.2	38-132			
Surrogate: n-Nonane	*44.2*		*50.0*		*88.5*	*50-200*			
Matrix Spike (2345077-MS1)				**Source: E311063-09**					Prepared: 11/09/23 Analyzed: 11/09/23
Diesel Range Organics (C10-C28)	279	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	*48.6*		*50.0*		*97.1*	*50-200*			
Matrix Spike Dup (2345077-MSD1)				**Source: E311063-09**					Prepared: 11/09/23 Analyzed: 11/09/23
Diesel Range Organics (C10-C28)	254	25.0	250	ND	101	38-132	9.36	20	
Surrogate: n-Nonane	*45.7*		*50.0*		*91.3*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/2023 5:08:36PM

Anions by EPA 300.0/9056A

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 (2345085-BLK1)									Prepared: 11/09/23 Analyzed: 11/10/23
Chloride	ND	20.0							
LCS (2345085-BS1)									Prepared: 11/09/23 Analyzed: 11/10/23
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2345085-MS1)				**Source: E311063-08**					Prepared: 11/09/23 Analyzed: 11/10/23
Chloride	28400	2000	250	30300	NR	80-120			M4
Matrix Spike Dup (2345085-MSD1)				**Source: E311063-08**					Prepared: 11/09/23 Analyzed: 11/10/23
Chloride	28500	2000	250	30300	NR	80-120	0.426	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

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/10/23 17:08

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

oject Information

Chain of Custody

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lient: Mack Energy	
roject: West Mount #1	
roject Manager:	
ddress:	
ity, State, Zip	
hone:	
mail:	
eport due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E311064 Job Number 20046-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015; GRO/DRO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; BGDOC NM; BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	11/07/23	S	1	SP 20 - 10'	1	X	
	11/07/23	S	1	SP 21 - 6'	2	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	11/07/23		Michelle Gaye	11-8-23	1330
Michelle Gaye	11-8-23	1645	Andrew Musso	11.8.23	1700
Andrew Musso	11.8.23	2400	Unmonitored	11/9/23	8:30

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Envirotech Analytical Laboratory

Printed: 11/9/2023 10:52:40AM

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:	11/09/23 08:30	Work Order ID:	E311064
Phone:	(575) 390-6397	Date Logged In:	11/08/23 16:14	Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	11/10/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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: N/A

Comments/Resolution

Time sampled not provided on COC per client.

Client Instruction

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

Date

envirotech 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:	West Mount #1
Work Order:	E311075
Job Number:	20046-0001
Received:	11/10/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/13/23

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: 11/13/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E311075
Date Received: 11/10/2023 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/10/2023 8:00:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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
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Cell: 775-287-1762
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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/23 15:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 22	E311075-01A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 23	E311075-02A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 24	E311075-03A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 25	E311075-04A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 26	E311075-05A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 27	E311075-06A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 28	E311075-07A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 29	E311075-08A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 3:56:58PM

SP 22

E311075-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.9 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345107
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*97.7 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345098
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 3:56:58PM

SP 23

E311075-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.7 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.6 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345107
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*83.4 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345098
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 3:56:58PM

SP 24

E311075-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.6 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.6 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345107
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*79.3 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345098
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 3:56:58PM

SP 25

E311075-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.8 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.8 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345107
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*82.9 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345098
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 3:56:58PM

SP 26

E311075-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*90.1 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.8 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345107
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*83.3 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345098
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 3:56:58PM

SP 27

E311075-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.4 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.4 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345107
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*80.5 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345098
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 3:56:58PM

SP 28

E311075-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.3 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345107
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*83.9 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345098
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 3:56:58PM

SP 29

E311075-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*88.7 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345107
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*82.0 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345098
Chloride	ND	200	10	11/10/23	11/13/23	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 3:56:58PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345104-BLK1)									Prepared: 11/10/23 Analyzed: 11/11/23
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	*7.39*		*8.00*		*92.3*	*70-130*			
LCS (2345104-BS1)									Prepared: 11/10/23 Analyzed: 11/11/23
Benzene	4.59	0.0250	5.00		91.8	70-130			
Ethylbenzene	4.41	0.0250	5.00		88.1	70-130			
Toluene	4.58	0.0250	5.00		91.6	70-130			
o-Xylene	4.51	0.0250	5.00		90.2	70-130			
p,m-Xylene	9.11	0.0500	10.0		91.1	70-130			
Total Xylenes	13.6	0.0250	15.0		90.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.47*		*8.00*		*93.3*	*70-130*			
Matrix Spike (2345104-MS1)				**Source: E311079-08**					Prepared: 11/10/23 Analyzed: 11/11/23
Benzene	4.77	0.0250	5.00	ND	95.5	54-133			
Ethylbenzene	4.59	0.0250	5.00	ND	91.7	61-133			
Toluene	4.77	0.0250	5.00	ND	95.3	61-130			
o-Xylene	4.69	0.0250	5.00	ND	93.7	63-131			
p,m-Xylene	9.49	0.0500	10.0	ND	94.9	63-131			
Total Xylenes	14.2	0.0250	15.0	ND	94.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.37*		*8.00*		*92.1*	*70-130*			
Matrix Spike Dup (2345104-MSD1)				**Source: E311079-08**					Prepared: 11/10/23 Analyzed: 11/11/23
Benzene	4.90	0.0250	5.00	ND	98.1	54-133	2.70	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.3	61-133	2.74	20	
Toluene	4.89	0.0250	5.00	ND	97.8	61-130	2.60	20	
o-Xylene	4.82	0.0250	5.00	ND	96.3	63-131	2.74	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	2.69	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.1	63-131	2.71	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.34*		*8.00*		*91.7*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 3:56:58PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345104-BLK1)									Prepared: 11/10/23 Analyzed: 11/11/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.37*		*8.00*		*92.1*	*70-130*			
LCS (2345104-BS2)									Prepared: 11/10/23 Analyzed: 11/11/23
Gasoline Range Organics (C6-C10)	42.6	20.0	50.0		85.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.44*		*8.00*		*93.0*	*70-130*			
Matrix Spike (2345104-MS2)				**Source: E311079-08**					Prepared: 11/10/23 Analyzed: 11/11/23
Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.53*		*8.00*		*94.1*	*70-130*			
Matrix Spike Dup (2345104-MSD2)				**Source: E311079-08**					Prepared: 11/10/23 Analyzed: 11/11/23
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.9	70-130	19.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		*8.00*		*94.9*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 3:56:58PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345107-BLK1)									Prepared: 11/10/23 Analyzed: 11/10/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*41.2*		*50.0*		*82.3*	*50-200*			
LCS (2345107-BS1)									Prepared: 11/10/23 Analyzed: 11/10/23
Diesel Range Organics (C10-C28)	228	25.0	250		91.4	38-132			
Surrogate: n-Nonane	*39.8*		*50.0*		*79.5*	*50-200*			
Matrix Spike (2345107-MS1)				**Source: E311078-03**					Prepared: 11/10/23 Analyzed: 11/10/23
Diesel Range Organics (C10-C28)	224	25.0	250	ND	89.7	38-132			
Surrogate: n-Nonane	*41.8*		*50.0*		*83.5*	*50-200*			
Matrix Spike Dup (2345107-MSD1)				**Source: E311078-03**					Prepared: 11/10/23 Analyzed: 11/10/23
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.4	38-132	4.01	20	
Surrogate: n-Nonane	*43.8*		*50.0*		*87.6*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 3:56:58PM

Anions by EPA 300.0/9056A

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 (2345098-BLK1)									Prepared: 11/10/23 Analyzed: 11/13/23
Chloride	ND	20.0							
LCS (2345098-BS1)									Prepared: 11/10/23 Analyzed: 11/13/23
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2345098-MS1)				**Source: E311075-03**					Prepared: 11/10/23 Analyzed: 11/13/23
Chloride	280	200	250	ND	112	80-120			
Matrix Spike Dup (2345098-MSD1)				**Source: E311075-03**					Prepared: 11/10/23 Analyzed: 11/13/23
Chloride	299	200	250	ND	120	80-120	6.81	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/23 15:56

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Page 1 of 1

Client: Mack Energy
Project: West Mount #1
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E 311075
Job Number 20046-0001

TAT: 1D, 2D (X), 3D, Standard

EPA Program: CWA, SDWA, RCRA

State: NM (X), CO, UT, AZ, TX

Analysis and Method: DRO/ORO by 8015; GRO/DRO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; BGDOC NM; BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	11/08/23	S	1	SP 22	1	X	
				SP 23	2		
				SP 24	3		
				SP 25	4		
				SP 26	5		
				SP 27	6		
				SP 28	7		
	11/08/23	S	1	SP 29	8	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	11/08/23		Michelle Gaytan	11-9-23	1315
Michelle Gaytan	11-9-23	1730	Andrew Russo	11-9-23	1830
Andrew Russo	11-9-23	2400	Omentine	11/10/23	8:00

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Envirotech Analytical Laboratory

Printed: 11/13/2023 3:18:48PM

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:	11/10/23 08:00	Work Order ID:	E311075
Phone:	(575) 390-6397	Date Logged In:	11/09/23 15:48	Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	11/13/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Time sampled not provived on COC per client.

Client Instruction

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

Date

envirotech 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: West Mount #1

Work Order: E311075

Job Number: 20046-0001

Received: 11/10/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/21/23

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: 11/21/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E311075
Date Received: 11/10/2023 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/10/2023 8:00:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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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Laboratory Administrator
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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/21/23 10:36

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 22 6'	E311075-01A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 23 6'	E311075-02A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 24 6'	E311075-03A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 25 6'	E311075-04A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 26 6'	E311075-05A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 27 8'	E311075-06A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 28 10'	E311075-07A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 29 12'	E311075-08A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/21/2023 10:36:21AM

SP 22 6'

E311075-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.9 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345107
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*97.7 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345098
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/21/2023 10:36:21AM

SP 23 6'

E311075-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.7 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.6 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345107
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*83.4 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345098
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/21/2023 10:36:21AM

SP 24 6'

E311075-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.6 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.6 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345107
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*79.3 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345098
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/21/2023 10:36:21AM

SP 25 6'

E311075-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.8 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.8 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345107
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*82.9 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345098
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/21/2023 10:36:21AM

SP 26 6'

E311075-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*90.1 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.8 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345107
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*83.3 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345098
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/21/2023 10:36:21AM

SP 27 8'

E311075-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.4 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.4 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345107
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*80.5 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345098
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/21/2023 10:36:21AM

SP 28 10'

E311075-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.3 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345107
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*83.9 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345098
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/21/2023 10:36:21AM

SP 29 12'

E311075-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*88.7 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345107
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*82.0 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345098
Chloride	ND	200	10	11/10/23	11/13/23	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/21/2023 10:36:21AM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345104-BLK1)									Prepared: 11/10/23 Analyzed: 11/11/23
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	*7.39*		*8.00*		*92.3*	*70-130*			
LCS (2345104-BS1)									Prepared: 11/10/23 Analyzed: 11/11/23
Benzene	4.59	0.0250	5.00		91.8	70-130			
Ethylbenzene	4.41	0.0250	5.00		88.1	70-130			
Toluene	4.58	0.0250	5.00		91.6	70-130			
o-Xylene	4.51	0.0250	5.00		90.2	70-130			
p,m-Xylene	9.11	0.0500	10.0		91.1	70-130			
Total Xylenes	13.6	0.0250	15.0		90.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.47*		*8.00*		*93.3*	*70-130*			
Matrix Spike (2345104-MS1)				**Source: E311079-08**					Prepared: 11/10/23 Analyzed: 11/11/23
Benzene	4.77	0.0250	5.00	ND	95.5	54-133			
Ethylbenzene	4.59	0.0250	5.00	ND	91.7	61-133			
Toluene	4.77	0.0250	5.00	ND	95.3	61-130			
o-Xylene	4.69	0.0250	5.00	ND	93.7	63-131			
p,m-Xylene	9.49	0.0500	10.0	ND	94.9	63-131			
Total Xylenes	14.2	0.0250	15.0	ND	94.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.37*		*8.00*		*92.1*	*70-130*			
Matrix Spike Dup (2345104-MSD1)				**Source: E311079-08**					Prepared: 11/10/23 Analyzed: 11/11/23
Benzene	4.90	0.0250	5.00	ND	98.1	54-133	2.70	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.3	61-133	2.74	20	
Toluene	4.89	0.0250	5.00	ND	97.8	61-130	2.60	20	
o-Xylene	4.82	0.0250	5.00	ND	96.3	63-131	2.74	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	2.69	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.1	63-131	2.71	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.34*		*8.00*		*91.7*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/21/2023 10:36:21AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345104-BLK1)									Prepared: 11/10/23 Analyzed: 11/11/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.37*		*8.00*		*92.1*	*70-130*			
LCS (2345104-BS2)									Prepared: 11/10/23 Analyzed: 11/11/23
Gasoline Range Organics (C6-C10)	42.6	20.0	50.0		85.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.44*		*8.00*		*93.0*	*70-130*			
Matrix Spike (2345104-MS2)				**Source: E311079-08**					Prepared: 11/10/23 Analyzed: 11/11/23
Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.53*		*8.00*		*94.1*	*70-130*			
Matrix Spike Dup (2345104-MSD2)				**Source: E311079-08**					Prepared: 11/10/23 Analyzed: 11/11/23
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.9	70-130	19.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		*8.00*		*94.9*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/21/2023 10:36:21AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345107-BLK1)									Prepared: 11/10/23 Analyzed: 11/10/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*41.2*		*50.0*		*82.3*	*50-200*			
LCS (2345107-BS1)									Prepared: 11/10/23 Analyzed: 11/10/23
Diesel Range Organics (C10-C28)	228	25.0	250		91.4	38-132			
Surrogate: n-Nonane	*39.8*		*50.0*		*79.5*	*50-200*			
Matrix Spike (2345107-MS1)				**Source: E311078-03**					Prepared: 11/10/23 Analyzed: 11/10/23
Diesel Range Organics (C10-C28)	224	25.0	250	ND	89.7	38-132			
Surrogate: n-Nonane	*41.8*		*50.0*		*83.5*	*50-200*			
Matrix Spike Dup (2345107-MSD1)				**Source: E311078-03**					Prepared: 11/10/23 Analyzed: 11/10/23
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.4	38-132	4.01	20	
Surrogate: n-Nonane	*43.8*		*50.0*		*87.6*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/21/2023 10:36:21AM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345098-BLK1)									Prepared: 11/10/23 Analyzed: 11/13/23
Chloride	ND	20.0							
LCS (2345098-BS1)									Prepared: 11/10/23 Analyzed: 11/13/23
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2345098-MS1)				**Source: E311075-03**					Prepared: 11/10/23 Analyzed: 11/13/23
Chloride	280	200	250	ND	112	80-120			
Matrix Spike Dup (2345098-MSD1)				**Source: E311075-03**					Prepared: 11/10/23 Analyzed: 11/13/23
Chloride	299	200	250	ND	120	80-120	6.81	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/21/23 10:36

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client: Mack Energy
Project: West Mount #1
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E 311075
Job Number 20046-0009

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	11/08/23	S	1	SP 22	1	X	
				SP 23	2		
				SP 24	3		
				SP 25	4		
				SP 26	5		
				SP 27	6		
				SP 28	7		
	11/08/23	S	1	SP 29	8	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	11/08/23		Michelle Gaytan	11-9-23	1315
Michelle Gaytan	11-9-23	1730	Andrew Russo	11-9-23	1830
Andrew Russo	11-9-23	2400	Ohmentime	11/10/23	8:00

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Envirotech Analytical Laboratory

Printed: 11/13/2023 3:18:48PM

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:	11/10/23 08:00	Work Order ID:	E311075
Phone:	(575) 390-6397	Date Logged In:	11/09/23 15:48	Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	11/13/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Time sampled not provived on COC per client.

Client Instruction

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

Date

envirotech Inc.

Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 1

Client: Mack Energy	Bill To
Project: West Mont #1	Attention: ENERGY STAFFING SERVICES
Project Manager:	Address: 2724 NW COUNTY RD
Address:	City, State, Zip HOBBS, NM 88240
City, State, Zip	Phone: 575-393-9048
Phone:	Email: NATALIE@ENERGYSTAFFINGLLC.COM
Email:	BRITTNEY@ENERGYSTAFFINGLLC.COM
Report due by:	

Lab Use Only: Lab WO# E 311075 | Job Number 200460-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM X | BGDOC TX

Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	Remarks
	11/08/23	S	1	SP 22 6'	1	Sample names Changed per. B. Carroll 11/15/23 RAS
				SP 23 6'	2	
				SP 24 6'	3	
				SP 25 6'	4	
				SP 26 6'	5	
				SP 27 8'	6	
				SP 28 10'	7	
	11/08/23	S	1	SP 29 12'	8	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	11/08/23		Michelle Gaytan	11-9-23	1315
Michelle Gaytan	11-9-23	1730	Andrew Russo	11-9-23	1830
Andrew Russo	11-9-23	2400	Omen Tme	11/10/23	8:00

Lab Use Only: Received on ice: (Y) / N

T1 ____ T2 ____ T3 ____

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

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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 #1
Work Order:	E311079
Job Number:	20046-0001
Received:	11/10/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/13/23

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: 11/13/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E311079
Date Received: 11/10/2023 9:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/10/2023 9:00:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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
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Cell: 775-287-1762
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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/23 16:04

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 59-4'	E311079-01A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 58-6'	E311079-02A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 57-4'	E311079-03A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 56-4'	E311079-04A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 55-4'	E311079-05A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 54-6'	E311079-06A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 53-4'	E311079-07A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 52-4'	E311079-08A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.
SP 51-6'	E311079-09A	Soil	11/08/23	11/10/23	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 4:04:02PM

SP 59-4'

E311079-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*88.6 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.6 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345112
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*91.0 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345100
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 4:04:02PM

SP 58-6'

E311079-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.1 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.1 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345112
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*89.9 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345100
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 4:04:02PM

SP 57-4'

E311079-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*88.7 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.3 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345112
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*90.0 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345100
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 4:04:02PM

SP 56-4'

E311079-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.2 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.8 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345112
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*89.5 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345100
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 4:04:02PM

SP 55-4'

E311079-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.1 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.9 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345112
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*91.2 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345100
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 4:04:02PM

SP 54-6'

E311079-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.8 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.1 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345112
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*96.0 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345100
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 4:04:02PM

SP 53-4'

E311079-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*90.0 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.9 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345112
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*91.7 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345100
Chloride	**234**	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 4:04:02PM

SP 52-4'

E311079-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*91.4 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.5 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345112
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*89.0 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345100
Chloride	ND	200	10	11/10/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 4:04:02PM

SP 51-6'

E311079-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Benzene	ND	0.0250	1	11/10/23	11/11/23	
Ethylbenzene	ND	0.0250	1	11/10/23	11/11/23	
Toluene	ND	0.0250	1	11/10/23	11/11/23	
o-Xylene	ND	0.0250	1	11/10/23	11/11/23	
p,m-Xylene	ND	0.0500	1	11/10/23	11/11/23	
Total Xylenes	ND	0.0250	1	11/10/23	11/11/23	
Surrogate: 4-Bromochlorobenzene-PID		*90.1 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2345104
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/10/23	11/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.1 %*	*70-130*	*11/10/23*	*11/11/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2345112
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/23	11/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/10/23	11/10/23	
Surrogate: n-Nonane		*92.2 %*	*50-200*	*11/10/23*	*11/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2345100
Chloride	ND	200	10	11/10/23	11/13/23	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 4:04:02PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345104-BLK1)									Prepared: 11/10/23 Analyzed: 11/11/23
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	*7.39*		*8.00*		*92.3*	*70-130*			
LCS (2345104-BS1)									Prepared: 11/10/23 Analyzed: 11/11/23
Benzene	4.59	0.0250	5.00		91.8	70-130			
Ethylbenzene	4.41	0.0250	5.00		88.1	70-130			
Toluene	4.58	0.0250	5.00		91.6	70-130			
o-Xylene	4.51	0.0250	5.00		90.2	70-130			
p,m-Xylene	9.11	0.0500	10.0		91.1	70-130			
Total Xylenes	13.6	0.0250	15.0		90.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.47*		*8.00*		*93.3*	*70-130*			
Matrix Spike (2345104-MS1)				**Source: E311079-08**					Prepared: 11/10/23 Analyzed: 11/11/23
Benzene	4.77	0.0250	5.00	ND	95.5	54-133			
Ethylbenzene	4.59	0.0250	5.00	ND	91.7	61-133			
Toluene	4.77	0.0250	5.00	ND	95.3	61-130			
o-Xylene	4.69	0.0250	5.00	ND	93.7	63-131			
p,m-Xylene	9.49	0.0500	10.0	ND	94.9	63-131			
Total Xylenes	14.2	0.0250	15.0	ND	94.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.37*		*8.00*		*92.1*	*70-130*			
Matrix Spike Dup (2345104-MSD1)				**Source: E311079-08**					Prepared: 11/10/23 Analyzed: 11/11/23
Benzene	4.90	0.0250	5.00	ND	98.1	54-133	2.70	20	
Ethylbenzene	4.71	0.0250	5.00	ND	94.3	61-133	2.74	20	
Toluene	4.89	0.0250	5.00	ND	97.8	61-130	2.60	20	
o-Xylene	4.82	0.0250	5.00	ND	96.3	63-131	2.74	20	
p,m-Xylene	9.75	0.0500	10.0	ND	97.5	63-131	2.69	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.1	63-131	2.71	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.34*		*8.00*		*91.7*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 4:04:02PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345104-BLK1)									Prepared: 11/10/23 Analyzed: 11/11/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.37*		*8.00*		*92.1*	*70-130*			
LCS (2345104-BS2)									Prepared: 11/10/23 Analyzed: 11/11/23
Gasoline Range Organics (C6-C10)	42.6	20.0	50.0		85.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.44*		*8.00*		*93.0*	*70-130*			
Matrix Spike (2345104-MS2)				**Source: E311079-08**					Prepared: 11/10/23 Analyzed: 11/11/23
Gasoline Range Organics (C6-C10)	39.9	20.0	50.0	ND	79.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.53*		*8.00*		*94.1*	*70-130*			
Matrix Spike Dup (2345104-MSD2)				**Source: E311079-08**					Prepared: 11/10/23 Analyzed: 11/11/23
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.9	70-130	19.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		*8.00*		*94.9*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 4:04:02PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2345112-BLK1)									Prepared: 11/10/23 Analyzed: 11/10/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*46.2*		*50.0*		*92.3*	*50-200*			
LCS (2345112-BS1)									Prepared: 11/10/23 Analyzed: 11/10/23
Diesel Range Organics (C10-C28)	260	25.0	250		104	38-132			
Surrogate: n-Nonane	*52.3*		*50.0*		*105*	*50-200*			
Matrix Spike (2345112-MS1)				**Source: E311079-05**					Prepared: 11/10/23 Analyzed: 11/10/23
Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.7	38-132			
Surrogate: n-Nonane	*49.7*		*50.0*		*99.4*	*50-200*			
Matrix Spike Dup (2345112-MSD1)				**Source: E311079-05**					Prepared: 11/10/23 Analyzed: 11/10/23
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132	8.79	20	
Surrogate: n-Nonane	*50.1*		*50.0*		*100*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/2023 4:04:02PM

Anions by EPA 300.0/9056A

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 (2345100-BLK1)									Prepared: 11/10/23 Analyzed: 11/13/23
Chloride	ND	20.0							
LCS (2345100-BS1)									Prepared: 11/10/23 Analyzed: 11/13/23
Chloride	248	20.0	250		99.2	90-110			
Matrix Spike (2345100-MS1)				**Source: E311079-01**					Prepared: 11/10/23 Analyzed: 11/13/23
Chloride	322	200	250	ND	129	80-120			M2
Matrix Spike Dup (2345100-MSD1)				**Source: E311079-01**					Prepared: 11/10/23 Analyzed: 11/13/23
Chloride	314	200	250	ND	126	80-120	2.52	20	M2

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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/13/23 16:04

M2	Matrix spike recovery was outside quality control limits. 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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client: Hoell Energy
Project: West Mount #1
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E311079
Job Number 20046-0001

TAT: 1D | 2D (X) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (X) | CO | UT | AZ | TX

Analysis and Method

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	BGDOC NM	BGDOC TX	Remarks
	11/08/23	S	1	SP59-4'	1							X		
				SP58-6'	2									
				SP57-4'	3									
				SP56-4'	4									
				SP55-4'	5									
				SP54-6'	6									
				SP53-4'	7									
				SP52-4'	8									
	11/08/23	S	1	SP51-6'	9							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Jose R Alvarez

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jose R Alvarez	11/08/23		Michelle Garcia	11-9-23	1315
Michelle Garcia	11-9-23	1730		11-9-23	1830
	11-9-23	2400		11/10/23	9:00

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Envirotech Analytical Laboratory

Printed: 11/13/2023 3:10:02PM

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:	11/10/23 09:00	Work Order ID:	E311079
Phone:	(575) 390-6397	Date Logged In:	11/09/23 16:03	Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	11/13/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Time sampled not provided on COC per client.

Project Manager not on COC please note Natalie Gladden

Client Instruction

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

Date

envirotech 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: West Mount #1

Work Order: E311094

Job Number: 20046-0001

Received: 11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/14/23

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: 11/14/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E311094
Date Received: 11/13/2023 7:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 7:00:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Laboratory Administrator
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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/23 14:46

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 30-12'	E311094-01A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
SP 31-10'	E311094-02A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
SP 32-6'	E311094-03A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
SP 33-6'	E311094-04A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
SP 34-12'	E311094-05A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
SP 35-8'	E311094-06A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:46:59PM

SP 30-12'

E311094-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/13/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/13/23	
Toluene	ND	0.0250	1	11/13/23	11/13/23	
o-Xylene	ND	0.0250	1	11/13/23	11/13/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/13/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/13/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.8 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.6 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/23	11/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/23	11/13/23	
Surrogate: n-Nonane		*93.7 %*	*50-200*	*11/13/23*	*11/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346010
Chloride	ND	200	10	11/13/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:46:59PM

SP 31-10'

E311094-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/13/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/13/23	
Toluene	ND	0.0250	1	11/13/23	11/13/23	
o-Xylene	ND	0.0250	1	11/13/23	11/13/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/13/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/13/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.3 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/23	11/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/23	11/13/23	
Surrogate: n-Nonane		*89.1 %*	*50-200*	*11/13/23*	*11/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346010
Chloride	ND	200	10	11/13/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:46:59PM

SP 32-6'

E311094-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/13/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/13/23	
Toluene	ND	0.0250	1	11/13/23	11/13/23	
o-Xylene	ND	0.0250	1	11/13/23	11/13/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/13/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/13/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.5 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/23	11/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/23	11/13/23	
Surrogate: n-Nonane		*87.9 %*	*50-200*	*11/13/23*	*11/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346010
Chloride	ND	200	10	11/13/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:46:59PM

SP 33-6'

E311094-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/13/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/13/23	
Toluene	ND	0.0250	1	11/13/23	11/13/23	
o-Xylene	ND	0.0250	1	11/13/23	11/13/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/13/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/13/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.1 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/23	11/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/23	11/13/23	
Surrogate: n-Nonane		*88.4 %*	*50-200*	*11/13/23*	*11/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346010
Chloride	ND	200	10	11/13/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:46:59PM

SP 34-12'

E311094-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/13/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/13/23	
Toluene	ND	0.0250	1	11/13/23	11/13/23	
o-Xylene	ND	0.0250	1	11/13/23	11/13/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/13/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/13/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.3 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/23	11/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/23	11/13/23	
Surrogate: n-Nonane		*90.5 %*	*50-200*	*11/13/23*	*11/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346010
Chloride	ND	200	10	11/13/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:46:59PM

SP 35-8'

E311094-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/13/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/13/23	
Toluene	ND	0.0250	1	11/13/23	11/13/23	
o-Xylene	ND	0.0250	1	11/13/23	11/13/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/13/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/13/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.7 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/23	11/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/23	11/13/23	
Surrogate: n-Nonane		*89.5 %*	*50-200*	*11/13/23*	*11/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346010
Chloride	ND	200	10	11/13/23	11/13/23	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:46:59PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2346006-BLK1)									Prepared: 11/13/23 Analyzed: 11/13/23
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	*7.73*		*8.00*		*96.6*	*70-130*			
LCS (2346006-BS1)									Prepared: 11/13/23 Analyzed: 11/13/23
Benzene	4.93	0.0250	5.00		98.6	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.4	70-130			
Toluene	4.92	0.0250	5.00		98.3	70-130			
o-Xylene	4.88	0.0250	5.00		97.6	70-130			
p,m-Xylene	9.93	0.0500	10.0		99.3	70-130			
Total Xylenes	14.8	0.0250	15.0		98.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.79*		*8.00*		*97.4*	*70-130*			
Matrix Spike (2346006-MS1)				**Source: E311094-02**					Prepared: 11/13/23 Analyzed: 11/13/23
Benzene	5.05	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.97	0.0250	5.00	ND	99.4	61-133			
Toluene	5.02	0.0250	5.00	ND	100	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.5	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.72*		*8.00*		*96.5*	*70-130*			
Matrix Spike Dup (2346006-MSD1)				**Source: E311094-02**					Prepared: 11/13/23 Analyzed: 11/13/23
Benzene	5.13	0.0250	5.00	ND	103	54-133	1.72	20	
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133	1.72	20	
Toluene	5.11	0.0250	5.00	ND	102	61-130	1.77	20	
o-Xylene	5.06	0.0250	5.00	ND	101	63-131	1.74	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	1.84	20	
Total Xylenes	15.4	0.0250	15.0	ND	102	63-131	1.81	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.69*		*8.00*		*96.2*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:46:59PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2346006-BLK1)									Prepared: 11/13/23 Analyzed: 11/13/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.43*		*8.00*		*92.9*	*70-130*			
LCS (2346006-BS2)									Prepared: 11/13/23 Analyzed: 11/13/23
Gasoline Range Organics (C6-C10)	47.0	20.0	50.0		94.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.38*		*8.00*		*92.2*	*70-130*			
Matrix Spike (2346006-MS2)				**Source: E311094-02**					Prepared: 11/13/23 Analyzed: 11/13/23
Gasoline Range Organics (C6-C10)	46.9	20.0	50.0	ND	93.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.52*		*8.00*		*94.0*	*70-130*			
Matrix Spike Dup (2346006-MSD2)				**Source: E311094-02**					Prepared: 11/13/23 Analyzed: 11/13/23
Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.3	70-130	2.67	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.52*		*8.00*		*94.0*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:46:59PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2346007-BLK1)									Prepared: 11/13/23 Analyzed: 11/13/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*46.7*		*50.0*		*93.5*	*50-200*			
LCS (2346007-BS1)									Prepared: 11/13/23 Analyzed: 11/13/23
Diesel Range Organics (C10-C28)	222	25.0	250		88.7	38-132			
Surrogate: n-Nonane	*45.3*		*50.0*		*90.6*	*50-200*			
Matrix Spike (2346007-MS1)				**Source: E311094-04**					Prepared: 11/13/23 Analyzed: 11/13/23
Diesel Range Organics (C10-C28)	216	25.0	250	ND	86.6	38-132			
Surrogate: n-Nonane	*45.0*		*50.0*		*90.1*	*50-200*			
Matrix Spike Dup (2346007-MSD1)				**Source: E311094-04**					Prepared: 11/13/23 Analyzed: 11/13/23
Diesel Range Organics (C10-C28)	223	25.0	250	ND	89.1	38-132	2.86	20	
Surrogate: n-Nonane	*45.3*		*50.0*		*90.7*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:46:59PM

Anions by EPA 300.0/9056A

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 (2346010-BLK1)									Prepared: 11/13/23 Analyzed: 11/13/23
Chloride	ND	20.0							
LCS (2346010-BS1)									Prepared: 11/13/23 Analyzed: 11/13/23
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2346010-MS1)				**Source: E311096-01**					Prepared: 11/13/23 Analyzed: 11/14/23
Chloride	252	20.0	250	ND	101	80-120			
Matrix Spike Dup (2346010-MSD1)				**Source: E311096-01**					Prepared: 11/13/23 Analyzed: 11/14/23
Chloride	252	20.0	250	ND	101	80-120	0.155	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/23 14:46

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 1

Client: Mack Energy
Project: West Mount #2
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E311094 | Job Number 20046-0001

TAT: 1D | 2D (X) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (X) | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	11/09/23	S	1	SP 30 - 12'	1	X	
				SP 31 - 10'	2		
				SP 32 - 6'	3		
				SP 33 - 6'	4		
				SP 34 - 12'	5		
	11/09/23	S	1	SP 35 - 8'	6	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	11/09/23		Michelle Gaylor	11-10-23	1320
Michelle Gaylor	11-10-23	1645	Andrew Munoz	11.10.23	1715
Andrew Munoz	11.10.23	2100	Raina Schwartz	11/13/23	7:00

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Envirotech Analytical Laboratory

Printed: 11/14/2023 2:45:51PM

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:	11/13/23 07:00	Work Order ID:	E311094
Phone:	(575) 390-6397	Date Logged In:	11/13/23 07:21	Logged In By:	Raina Schwanz
Email:	Natalie@energystaffingllc.com	Due Date:	11/14/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Time sampled and project manager name not provided on COC by client.

Client Instruction

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

Date

envirotech 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:	West Mount #1
Work Order:	E311095
Job Number:	20046-0001
Received:	11/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/14/23

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: 11/14/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E311095
Date Received: 11/13/2023 7:25:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/13/2023 7:25:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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
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labadmin@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 #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/23 14:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP13-4'	E311095-01A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
SP14-4'	E311095-02A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
SP15-4'	E311095-03A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
SP16-4'	E311095-04A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
SP17-4'	E311095-05A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
SP18-4'	E311095-06A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
SP19-4'	E311095-07A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
SP11-4'	E311095-08A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
SP12-6'	E311095-09A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
SW8-2'	E311095-10A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
SW7-2'	E311095-11A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.
SW6-2'	E311095-12A	Soil	11/09/23	11/13/23	Glass Jar, 4 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:56:45PM

SP13-4'

E311095-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/13/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/13/23	
Toluene	ND	0.0250	1	11/13/23	11/13/23	
o-Xylene	ND	0.0250	1	11/13/23	11/13/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/13/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/13/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.8 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/23	11/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/23	11/13/23	
Surrogate: n-Nonane		*85.5 %*	*50-200*	*11/13/23*	*11/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346011
Chloride	ND	200	10	11/13/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:56:45PM

SP14-4'

E311095-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/13/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/13/23	
Toluene	ND	0.0250	1	11/13/23	11/13/23	
o-Xylene	ND	0.0250	1	11/13/23	11/13/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/13/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/13/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.7 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.3 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/23	11/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/23	11/13/23	
Surrogate: n-Nonane		*87.4 %*	*50-200*	*11/13/23*	*11/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346011
Chloride	ND	200	10	11/13/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:56:45PM

SP15-4'

E311095-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/13/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/13/23	
Toluene	ND	0.0250	1	11/13/23	11/13/23	
o-Xylene	ND	0.0250	1	11/13/23	11/13/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/13/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/13/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/13/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.0 %*	*70-130*	*11/13/23*	*11/13/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/23	11/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/23	11/13/23	
Surrogate: n-Nonane		*85.1 %*	*50-200*	*11/13/23*	*11/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346011
Chloride	ND	200	10	11/13/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:56:45PM

SP16-4'

E311095-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/14/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/14/23	
Toluene	ND	0.0250	1	11/13/23	11/14/23	
o-Xylene	ND	0.0250	1	11/13/23	11/14/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/14/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/23	11/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/23	11/14/23	
Surrogate: n-Nonane		*90.0 %*	*50-200*	*11/13/23*	*11/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346011
Chloride	ND	200	10	11/13/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:56:45PM

SP17-4'

E311095-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/14/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/14/23	
Toluene	ND	0.0250	1	11/13/23	11/14/23	
o-Xylene	ND	0.0250	1	11/13/23	11/14/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/14/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.8 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.9 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/23	11/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/23	11/14/23	
Surrogate: n-Nonane		*92.7 %*	*50-200*	*11/13/23*	*11/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346011
Chloride	ND	200	10	11/13/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:56:45PM

SP18-4'

E311095-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/14/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/14/23	
Toluene	ND	0.0250	1	11/13/23	11/14/23	
o-Xylene	ND	0.0250	1	11/13/23	11/14/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/14/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.4 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/23	11/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/23	11/14/23	
Surrogate: n-Nonane		*86.3 %*	*50-200*	*11/13/23*	*11/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346011
Chloride	ND	200	10	11/13/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:56:45PM

SP19-4'

E311095-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/14/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/14/23	
Toluene	ND	0.0250	1	11/13/23	11/14/23	
o-Xylene	ND	0.0250	1	11/13/23	11/14/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/14/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.2 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/23	11/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/23	11/14/23	
Surrogate: n-Nonane		*84.8 %*	*50-200*	*11/13/23*	*11/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346011
Chloride	ND	200	10	11/13/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:56:45PM

SP11-4'

E311095-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/14/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/14/23	
Toluene	ND	0.0250	1	11/13/23	11/14/23	
o-Xylene	ND	0.0250	1	11/13/23	11/14/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/14/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.9 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.1 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/23	11/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/23	11/14/23	
Surrogate: n-Nonane		*89.9 %*	*50-200*	*11/13/23*	*11/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346011
Chloride	ND	200	10	11/13/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:56:45PM

SP12-6'

E311095-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/14/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/14/23	
Toluene	ND	0.0250	1	11/13/23	11/14/23	
o-Xylene	ND	0.0250	1	11/13/23	11/14/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/14/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.2 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/23	11/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/23	11/14/23	
Surrogate: n-Nonane		*90.6 %*	*50-200*	*11/13/23*	*11/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346011
Chloride	ND	200	10	11/13/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:56:45PM

SW8-2'

E311095-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/14/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/14/23	
Toluene	ND	0.0250	1	11/13/23	11/14/23	
o-Xylene	ND	0.0250	1	11/13/23	11/14/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/14/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.8 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	ND	25.0	1	11/13/23	11/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/13/23	11/14/23	
Surrogate: n-Nonane		*86.8 %*	*50-200*	*11/13/23*	*11/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346011
Chloride	ND	200	10	11/13/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:56:45PM

SW7-2'

E311095-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/14/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/14/23	
Toluene	ND	0.0250	1	11/13/23	11/14/23	
o-Xylene	ND	0.0250	1	11/13/23	11/14/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/14/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.8 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.3 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	**800**	50.0	2	11/13/23	11/14/23	
Oil Range Organics (C28-C36)	**177**	100	2	11/13/23	11/14/23	
Surrogate: n-Nonane		*91.0 %*	*50-200*	*11/13/23*	*11/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346011
Chloride	ND	200	10	11/13/23	11/13/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:56:45PM

SW6-2'

E311095-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Benzene	ND	0.0250	1	11/13/23	11/14/23	
Ethylbenzene	ND	0.0250	1	11/13/23	11/14/23	
Toluene	ND	0.0250	1	11/13/23	11/14/23	
o-Xylene	ND	0.0250	1	11/13/23	11/14/23	
p,m-Xylene	ND	0.0500	1	11/13/23	11/14/23	
Total Xylenes	ND	0.0250	1	11/13/23	11/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2346006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/13/23	11/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.7 %*	*70-130*	*11/13/23*	*11/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2346007
Diesel Range Organics (C10-C28)	**809**	50.0	2	11/13/23	11/14/23	
Oil Range Organics (C28-C36)	**176**	100	2	11/13/23	11/14/23	
Surrogate: n-Nonane		*91.1 %*	*50-200*	*11/13/23*	*11/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2346011
Chloride	ND	200	10	11/13/23	11/13/23	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:56:45PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2346006-BLK1)									Prepared: 11/13/23 Analyzed: 11/13/23
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	*7.73*		*8.00*		*96.6*	*70-130*			
LCS (2346006-BS1)									Prepared: 11/13/23 Analyzed: 11/13/23
Benzene	4.93	0.0250	5.00		98.6	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.4	70-130			
Toluene	4.92	0.0250	5.00		98.3	70-130			
o-Xylene	4.88	0.0250	5.00		97.6	70-130			
p,m-Xylene	9.93	0.0500	10.0		99.3	70-130			
Total Xylenes	14.8	0.0250	15.0		98.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.79*		*8.00*		*97.4*	*70-130*			
Matrix Spike (2346006-MS1)				**Source: E311094-02**					Prepared: 11/13/23 Analyzed: 11/13/23
Benzene	5.05	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.97	0.0250	5.00	ND	99.4	61-133			
Toluene	5.02	0.0250	5.00	ND	100	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.5	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.72*		*8.00*		*96.5*	*70-130*			
Matrix Spike Dup (2346006-MSD1)				**Source: E311094-02**					Prepared: 11/13/23 Analyzed: 11/13/23
Benzene	5.13	0.0250	5.00	ND	103	54-133	1.72	20	
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133	1.72	20	
Toluene	5.11	0.0250	5.00	ND	102	61-130	1.77	20	
o-Xylene	5.06	0.0250	5.00	ND	101	63-131	1.74	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	1.84	20	
Total Xylenes	15.4	0.0250	15.0	ND	102	63-131	1.81	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.69*		*8.00*		*96.2*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:56:45PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2346006-BLK1)									Prepared: 11/13/23 Analyzed: 11/13/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.43*		*8.00*		*92.9*	*70-130*			
LCS (2346006-BS2)									Prepared: 11/13/23 Analyzed: 11/13/23
Gasoline Range Organics (C6-C10)	47.0	20.0	50.0		94.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.38*		*8.00*		*92.2*	*70-130*			
Matrix Spike (2346006-MS2)				**Source: E311094-02**					Prepared: 11/13/23 Analyzed: 11/13/23
Gasoline Range Organics (C6-C10)	46.9	20.0	50.0	ND	93.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.52*		*8.00*		*94.0*	*70-130*			
Matrix Spike Dup (2346006-MSD2)				**Source: E311094-02**					Prepared: 11/13/23 Analyzed: 11/13/23
Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.3	70-130	2.67	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.52*		*8.00*		*94.0*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:56:45PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2346007-BLK1)									Prepared: 11/13/23 Analyzed: 11/13/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*46.7*		*50.0*		*93.5*	*50-200*			
LCS (2346007-BS1)									Prepared: 11/13/23 Analyzed: 11/13/23
Diesel Range Organics (C10-C28)	222	25.0	250		88.7	38-132			
Surrogate: n-Nonane	*45.3*		*50.0*		*90.6*	*50-200*			
Matrix Spike (2346007-MS1)				**Source: E311094-04**					Prepared: 11/13/23 Analyzed: 11/13/23
Diesel Range Organics (C10-C28)	216	25.0	250	ND	86.6	38-132			
Surrogate: n-Nonane	*45.0*		*50.0*		*90.1*	*50-200*			
Matrix Spike Dup (2346007-MSD1)				**Source: E311094-04**					Prepared: 11/13/23 Analyzed: 11/13/23
Diesel Range Organics (C10-C28)	223	25.0	250	ND	89.1	38-132	2.86	20	
Surrogate: n-Nonane	*45.3*		*50.0*		*90.7*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/2023 2:56:45PM

Anions by EPA 300.0/9056A

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 (2346011-BLK1)									Prepared: 11/13/23 Analyzed: 11/13/23
Chloride	ND	20.0							
LCS (2346011-BS1)									Prepared: 11/13/23 Analyzed: 11/13/23
Chloride	246	20.0	250		98.3	90-110			
Matrix Spike (2346011-MS1)				**Source: E311095-06**					Prepared: 11/13/23 Analyzed: 11/13/23
Chloride	233	200	250	ND	93.1	80-120			
Matrix Spike Dup (2346011-MSD1)				**Source: E311095-06**					Prepared: 11/13/23 Analyzed: 11/13/23
Chloride	253	200	250	ND	101	80-120	8.13	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/14/23 14:56

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: 7/7/2025 2:18:32 PM

Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client:	Meek Energy
Project:	West Mount #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO# E 311095
Job Number 20046-0004

TAT: 1D | 2D (X) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (X) | CO | UT | AZ | TX

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	BGDOC NM	BGDOC TX	Remarks
	11/09/23	S	1	SP13-4'	1							X		
				SP14-4'	2									
				SP15-4'	3									
				SP16-4'	4									
				SP17-4'	5									
				SP18-4'	6									
				SP19-4'	7									
				SP11-4'	8									
				SP12-6'	9									
	11/09/23	S	1	SW8-2'	10							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Jose R Alvarez

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jose R Alvarez	11/09/23		Michelle Gaul	11-10-23	1320
Michelle Gaul	11-10-23	1645	Andrew Mass	11.10.23	1715
Andrew Mass	11-10-23	2400	Rowie Luna	11/13/23	700

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

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 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.

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Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client:	Mack Energy
Project:	West Mallet #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO# E 311095
Job Number 20046-0001

TAT: 1D | 2D (✓) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (✓) | CO | UT | AZ | TX

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			BGDOC NM	BGDOC TX			Remarks
	11/09/23	S	1	SW7-2'	11									✓				
	11/09/23	S	1	SW6-2	12									✓				

Analysis and Method

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Jose R Alvarez

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jose R Alvarez	11/09/23		Michelle Garcia	11-10-23	1320
Michelle Garcia	11-10-23	1645	Andrea Nieto	11.10.23	1715
Andrea Nieto	11.10.23	2400			

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Envirotech Analytical Laboratory

Printed: 11/13/2023 3:14:10PM

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:	11/13/23 07:25	Work Order ID:	E311095
Phone:	(575) 390-6397	Date Logged In:	11/13/23 07:25	Logged In By:	Raina Schwanz
Email:	Natalie@energystaffingllc.com	Due Date:	11/14/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Time sampled not provided on COC per client.

Project manager not on COC.

Client Instruction

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

Date

envirotech 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:	West Mount #1
Work Order:	E311179
Job Number:	20046-0001
Received:	11/21/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/22/23

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: 11/22/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E311179
Date Received: 11/21/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/21/2023 7:30:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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

Alexa Michaels
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labadmin@envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/23 16:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW 39-3'	E311179-01A	Soil	11/19/23	11/21/23	Glass Jar, 2 oz.
SW 40-2'	E311179-02A	Soil	11/19/23	11/21/23	Glass Jar, 2 oz.
SW 41-3'	E311179-03A	Soil	11/19/23	11/21/23	Glass Jar, 2 oz.
SW 42-3'	E311179-04A	Soil	11/19/23	11/21/23	Glass Jar, 2 oz.
SW 43-2'	E311179-05A	Soil	11/19/23	11/21/23	Glass Jar, 2 oz.
SW 44-2'	E311179-06A	Soil	11/19/23	11/21/23	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:48:47PM

SW 39-3'

E311179-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*99.1 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*99.1 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*106 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347066
Chloride	ND	20.0	1	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:48:47PM

SW 40-2'

E311179-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*99.7 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*99.7 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*108 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347066
Chloride	ND	100	5	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:48:47PM

SW 41-3'

E311179-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*97.2 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*97.2 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347066
Chloride	ND	100	5	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:48:47PM

SW 42-3'

E311179-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*98.8 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*98.8 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347066
Chloride	**56.2**	20.0	1	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:48:47PM

SW 43-2'

E311179-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*98.9 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*99.8 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*98.9 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*99.8 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*106 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347066
Chloride	ND	20.0	1	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:48:47PM

SW 44-2'

E311179-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*98.5 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*98.5 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347072
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*107 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347066
Chloride	ND	20.0	1	11/21/23	11/21/23	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:48:47PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2347063-BLK1)									Prepared: 11/21/23 Analyzed: 11/22/23
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: Bromofluorobenzene	*0.490*		*0.500*		*97.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.468*		*0.500*		*93.6*	*70-130*			
Surrogate: Toluene-d8	*0.547*		*0.500*		*109*	*70-130*			
LCS (2347063-BS1)									Prepared: 11/21/23 Analyzed: 11/22/23
Benzene	2.54	0.0250	2.50		101	70-130			
Ethylbenzene	2.62	0.0250	2.50		105	70-130			
Toluene	2.61	0.0250	2.50		105	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	5.05	0.0500	5.00		101	70-130			
Total Xylenes	7.56	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	*0.480*		*0.500*		*96.0*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.474*		*0.500*		*94.8*	*70-130*			
Surrogate: Toluene-d8	*0.532*		*0.500*		*106*	*70-130*			
Matrix Spike (2347063-MS1)				**Source: E311180-03**					Prepared: 11/21/23 Analyzed: 11/22/23
Benzene	2.45	0.0250	2.50	ND	97.9	48-131			
Ethylbenzene	2.56	0.0250	2.50	ND	103	45-135			
Toluene	2.59	0.0250	2.50	ND	104	48-130			
o-Xylene	2.45	0.0250	2.50	ND	98.1	43-135			
p,m-Xylene	4.97	0.0500	5.00	ND	99.4	43-135			
Total Xylenes	7.42	0.0250	7.50	ND	99.0	43-135			
Surrogate: Bromofluorobenzene	*0.469*		*0.500*		*93.8*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.473*		*0.500*		*94.6*	*70-130*			
Surrogate: Toluene-d8	*0.536*		*0.500*		*107*	*70-130*			
Matrix Spike Dup (2347063-MSD1)				**Source: E311180-03**					Prepared: 11/21/23 Analyzed: 11/22/23
Benzene	2.62	0.0250	2.50	ND	105	48-131	6.67	23	
Ethylbenzene	2.81	0.0250	2.50	ND	113	45-135	9.30	27	
Toluene	2.85	0.0250	2.50	ND	114	48-130	9.25	24	
o-Xylene	2.69	0.0250	2.50	ND	107	43-135	9.07	27	
p,m-Xylene	5.42	0.0500	5.00	ND	108	43-135	8.72	27	
Total Xylenes	8.11	0.0250	7.50	ND	108	43-135	8.84	27	
Surrogate: Bromofluorobenzene	*0.482*		*0.500*		*96.4*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.473*		*0.500*		*94.6*	*70-130*			
Surrogate: Toluene-d8	*0.548*		*0.500*		*110*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:48:47PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2347063-BLK1)									Prepared: 11/21/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.490*		*0.500*		*97.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.468*		*0.500*		*93.6*	*70-130*			
Surrogate: Toluene-d8	*0.547*		*0.500*		*109*	*70-130*			
LCS (2347063-BS2)									Prepared: 11/21/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	55.8	20.0	50.0		112	70-130			
Surrogate: Bromofluorobenzene	*0.506*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.476*		*0.500*		*95.2*	*70-130*			
Surrogate: Toluene-d8	*0.562*		*0.500*		*112*	*70-130*			
Matrix Spike (2347063-MS2)				**Source: E311180-03**					Prepared: 11/21/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	*0.504*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.493*		*0.500*		*98.5*	*70-130*			
Surrogate: Toluene-d8	*0.556*		*0.500*		*111*	*70-130*			
Matrix Spike Dup (2347063-MSD2)				**Source: E311180-03**					Prepared: 11/21/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130	3.64	20	
Surrogate: Bromofluorobenzene	*0.495*		*0.500*		*98.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.493*		*0.500*		*98.6*	*70-130*			
Surrogate: Toluene-d8	*0.553*		*0.500*		*111*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:48:47PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2347072-BLK1)									Prepared: 11/21/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*51.9*		*50.0*		*104*	*50-200*			
LCS (2347072-BS1)									Prepared: 11/21/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	275	25.0	250		110	38-132			
Surrogate: n-Nonane	*56.6*		*50.0*		*113*	*50-200*			
Matrix Spike (2347072-MS1)				**Source: E311179-03**					Prepared: 11/21/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	285	25.0	250	ND	114	38-132			
Surrogate: n-Nonane	*56.4*		*50.0*		*113*	*50-200*			
Matrix Spike Dup (2347072-MSD1)				**Source: E311179-03**					Prepared: 11/21/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	38-132	0.720	20	
Surrogate: n-Nonane	*54.3*		*50.0*		*109*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:48:47PM

Anions by EPA 300.0/9056A

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 (2347066-BLK1)									Prepared: 11/21/23 Analyzed: 11/21/23
Chloride	ND	20.0							
LCS (2347066-BS1)									Prepared: 11/21/23 Analyzed: 11/21/23
Chloride	244	20.0	250		97.8	90-110			
Matrix Spike (2347066-MS1)				**Source: E311179-01**					Prepared: 11/21/23 Analyzed: 11/21/23
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2347066-MSD1)				**Source: E311179-01**					Prepared: 11/21/23 Analyzed: 11/21/23
Chloride	255	20.0	250	ND	102	80-120	0.655	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/23 16:48

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Page 1 of 1

Client: Mack Energy
Project: West Mont #1
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E311179
Job Number 200460-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	11/19/23	S	1	SW 39 - 3'	1	X	
				SW 40 - 2'	2		
				SW 41 - 3'	3		
				SW 42 - 3'	4		
				SW 43 - 2'	5		
	11/19/23	S	1	SW 44 - 2'	6	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	11/19/23			11/20/23	1430
	11/20/23	1730		11/20/23	2420
	11/20/23	1830	Monterio	11/21/23	7:30

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

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Envirotech Analytical Laboratory

Printed: 11/21/2023 11:05:44AM

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:	11/21/23 07:30	Work Order ID:	E311179
Phone:	(575) 390-6397	Date Logged In:	11/20/23 15:28	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	11/22/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Time sampled not provided on COC per client.

Project manager not on COC; Natalie Gladden.

Client Instruction

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

Date

envirotech 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:	West Mount #1
Work Order:	E311180
Job Number:	20046-0001
Received:	11/21/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/22/23

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: 11/22/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E311180
Date Received: 11/21/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/21/2023 7:30:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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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Laboratory Administrator
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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/23 16:50

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW 7-4'	E311180-01A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SW 6-4'	E311180-02A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SW 5-2'	E311180-03A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SW 4-2'	E311180-04A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SW 3-2'	E311180-05A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.
SW 2-2'	E311180-06A	Soil	11/18/23	11/21/23	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:50:22PM

SW 7-4'

E311180-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*97.5 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*97.5 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*85.7 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347066
Chloride	ND	200	10	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:50:22PM

SW 6-4'

E311180-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*99.4 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*99.4 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*84.4 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347066
Chloride	ND	200	10	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:50:22PM

SW 5-2'

E311180-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*98.7 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*99.4 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*98.7 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*99.4 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*88.4 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347066
Chloride	ND	200	10	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:50:22PM

SW 4-2'

E311180-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/21/23*	*11/21/23*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*86.3 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347066
Chloride	ND	20.0	1	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:50:22PM

SW 3-2'

E311180-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Benzene	ND	0.0250	1	11/21/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/22/23	
Toluene	ND	0.0250	1	11/21/23	11/22/23	
o-Xylene	ND	0.0250	1	11/21/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/22/23	
Surrogate: Bromofluorobenzene		*97.6 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/21/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/22/23	
Surrogate: Bromofluorobenzene		*97.6 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/21/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*85.8 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347066
Chloride	ND	20.0	1	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:50:22PM

SW 2-2'

E311180-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Benzene	ND	0.0250	1	11/21/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/22/23	
Toluene	ND	0.0250	1	11/21/23	11/22/23	
o-Xylene	ND	0.0250	1	11/21/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/22/23	
Surrogate: Bromofluorobenzene		*98.5 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.3 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: Toluene-d8		*111 %*	*70-130*	*11/21/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/22/23	
Surrogate: Bromofluorobenzene		*98.5 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.3 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: Toluene-d8		*111 %*	*70-130*	*11/21/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*85.0 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347066
Chloride	ND	20.0	1	11/21/23	11/21/23	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:50:22PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2347063-BLK1)									Prepared: 11/21/23 Analyzed: 11/22/23
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: Bromofluorobenzene	*0.490*		*0.500*		*97.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.468*		*0.500*		*93.6*	*70-130*			
Surrogate: Toluene-d8	*0.547*		*0.500*		*109*	*70-130*			
LCS (2347063-BS1)									Prepared: 11/21/23 Analyzed: 11/22/23
Benzene	2.54	0.0250	2.50		101	70-130			
Ethylbenzene	2.62	0.0250	2.50		105	70-130			
Toluene	2.61	0.0250	2.50		105	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	5.05	0.0500	5.00		101	70-130			
Total Xylenes	7.56	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	*0.480*		*0.500*		*96.0*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.474*		*0.500*		*94.8*	*70-130*			
Surrogate: Toluene-d8	*0.532*		*0.500*		*106*	*70-130*			
Matrix Spike (2347063-MS1)				**Source: E311180-03**					Prepared: 11/21/23 Analyzed: 11/22/23
Benzene	2.45	0.0250	2.50	ND	97.9	48-131			
Ethylbenzene	2.56	0.0250	2.50	ND	103	45-135			
Toluene	2.59	0.0250	2.50	ND	104	48-130			
o-Xylene	2.45	0.0250	2.50	ND	98.1	43-135			
p,m-Xylene	4.97	0.0500	5.00	ND	99.4	43-135			
Total Xylenes	7.42	0.0250	7.50	ND	99.0	43-135			
Surrogate: Bromofluorobenzene	*0.469*		*0.500*		*93.8*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.473*		*0.500*		*94.6*	*70-130*			
Surrogate: Toluene-d8	*0.536*		*0.500*		*107*	*70-130*			
Matrix Spike Dup (2347063-MSD1)				**Source: E311180-03**					Prepared: 11/21/23 Analyzed: 11/22/23
Benzene	2.62	0.0250	2.50	ND	105	48-131	6.67	23	
Ethylbenzene	2.81	0.0250	2.50	ND	113	45-135	9.30	27	
Toluene	2.85	0.0250	2.50	ND	114	48-130	9.25	24	
o-Xylene	2.69	0.0250	2.50	ND	107	43-135	9.07	27	
p,m-Xylene	5.42	0.0500	5.00	ND	108	43-135	8.72	27	
Total Xylenes	8.11	0.0250	7.50	ND	108	43-135	8.84	27	
Surrogate: Bromofluorobenzene	*0.482*		*0.500*		*96.4*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.473*		*0.500*		*94.6*	*70-130*			
Surrogate: Toluene-d8	*0.548*		*0.500*		*110*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:50:22PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2347063-BLK1)									Prepared: 11/21/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.490*		*0.500*		*97.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.468*		*0.500*		*93.6*	*70-130*			
Surrogate: Toluene-d8	*0.547*		*0.500*		*109*	*70-130*			
LCS (2347063-BS2)									Prepared: 11/21/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	55.8	20.0	50.0		112	70-130			
Surrogate: Bromofluorobenzene	*0.506*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.476*		*0.500*		*95.2*	*70-130*			
Surrogate: Toluene-d8	*0.562*		*0.500*		*112*	*70-130*			
Matrix Spike (2347063-MS2)				**Source: E311180-03**					Prepared: 11/21/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	*0.504*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.493*		*0.500*		*98.5*	*70-130*			
Surrogate: Toluene-d8	*0.556*		*0.500*		*111*	*70-130*			
Matrix Spike Dup (2347063-MSD2)				**Source: E311180-03**					Prepared: 11/21/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130	3.64	20	
Surrogate: Bromofluorobenzene	*0.495*		*0.500*		*98.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.493*		*0.500*		*98.6*	*70-130*			
Surrogate: Toluene-d8	*0.553*		*0.500*		*111*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:50:22PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2347075-BLK1)									Prepared: 11/21/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*41.0*		*50.0*		*82.1*	*50-200*			
LCS (2347075-BS1)									Prepared: 11/21/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	249	25.0	250		99.6	38-132			
Surrogate: n-Nonane	*45.2*		*50.0*		*90.4*	*50-200*			
Matrix Spike (2347075-MS1)				**Source: E311180-01**					Prepared: 11/21/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.9	38-132			
Surrogate: n-Nonane	*44.2*		*50.0*		*88.4*	*50-200*			
Matrix Spike Dup (2347075-MSD1)				**Source: E311180-01**					Prepared: 11/21/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.0	38-132	2.98	20	
Surrogate: n-Nonane	*43.6*		*50.0*		*87.2*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:50:22PM

Anions by EPA 300.0/9056A

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 (2347066-BLK1)									Prepared: 11/21/23 Analyzed: 11/21/23
Chloride	ND	20.0							
LCS (2347066-BS1)									Prepared: 11/21/23 Analyzed: 11/21/23
Chloride	244	20.0	250		97.8	90-110			
Matrix Spike (2347066-MS1)				**Source: E311179-01**					Prepared: 11/21/23 Analyzed: 11/21/23
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2347066-MSD1)				**Source: E311179-01**					Prepared: 11/21/23 Analyzed: 11/21/23
Chloride	255	20.0	250	ND	102	80-120	0.655	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/23 16:50

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client: Mack Energy
Project: West Mount #1
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E 311180
Job Number 20040-0001

TAT: 1D | 2D (X) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (X) | CO | UT | AZ | TX

Analysis and Method

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	BGDOC NM	BGDOC TX	Remarks
	11/18/23	S	1	SW 7 - 4'	1							X		
	"	"	"	SW 6 - 4'	2							"		
	"	"	"	SW 5 - 2'	3							"		
	"	"	"	SW 4 - 2'	4							"		
	"	"	"	SW 3 - 2'	5							"		
	11/18/23	S	1	SW 2 - 2'	6							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Soli:S

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Soli:S	11/18/23			11/20/23	1430
Relinquished by: (Signature)	Date 11/20/23	Time 1730	Received by: (Signature)	Date 11/20/23	Time 2420
Relinquished by: (Signature)	Date 11/20/23	Time 1830	Received by: (Signature) Ramiro	Date 11/21/23	Time 7:20

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

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Envirotech Analytical Laboratory

Printed: 11/21/2023 11:10:17AM

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:	11/21/23 07:30	Work Order ID:	E311180
Phone:	(575) 390-6397	Date Logged In:	11/20/23 16:10	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	11/22/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Time sampled not provided on COC per client.

Project manager not on COC; Natalie Gladden.

Client Instruction

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

Date

envirotech 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: West Mount #1

Work Order: E311181

Job Number: 20046-0001

Received: 11/21/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/22/23

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: 11/22/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E311181
Date Received: 11/21/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/21/2023 7:30:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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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Laboratory Administrator
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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/23 16:54

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 60-8'	E311181-01A	Soil	11/19/23	11/21/23	Glass Jar, 2 oz.
SP 61-8'	E311181-02A	Soil	11/19/23	11/21/23	Glass Jar, 2 oz.
SP 62-6'	E311181-03A	Soil	11/19/23	11/21/23	Glass Jar, 2 oz.
SP 63-8'	E311181-04A	Soil	11/19/23	11/21/23	Glass Jar, 2 oz.
SP 64-6'	E311181-05A	Soil	11/19/23	11/21/23	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:54:05PM

SP 60-8'

E311181-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Benzene	ND	0.0250	1	11/21/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/22/23	
Toluene	ND	0.0250	1	11/21/23	11/22/23	
o-Xylene	ND	0.0250	1	11/21/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/22/23	
Surrogate: Bromofluorobenzene		*97.0 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/21/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/22/23	
Surrogate: Bromofluorobenzene		*97.0 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/21/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*78.5 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347067
Chloride	ND	200	10	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:54:05PM

SP 61-8'

E311181-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Benzene	ND	0.0250	1	11/21/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/22/23	
Toluene	ND	0.0250	1	11/21/23	11/22/23	
o-Xylene	ND	0.0250	1	11/21/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/22/23	
Surrogate: Bromofluorobenzene		*99.3 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.2 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*11/21/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/22/23	
Surrogate: Bromofluorobenzene		*99.3 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.2 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*11/21/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*67.1 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347067
Chloride	ND	200	10	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:54:05PM

SP 62-6'

E311181-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Benzene	ND	0.0250	1	11/21/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/22/23	
Toluene	ND	0.0250	1	11/21/23	11/22/23	
o-Xylene	ND	0.0250	1	11/21/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/22/23	
Surrogate: Bromofluorobenzene		*96.2 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: 1,2-Dichloroethane-d4		*98.8 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/21/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/22/23	
Surrogate: Bromofluorobenzene		*96.2 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: 1,2-Dichloroethane-d4		*98.8 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/21/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*84.8 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347067
Chloride	ND	200	10	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:54:05PM

SP 63-8'

E311181-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Benzene	ND	0.0250	1	11/21/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/22/23	
Toluene	ND	0.0250	1	11/21/23	11/22/23	
o-Xylene	ND	0.0250	1	11/21/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/22/23	
Surrogate: Bromofluorobenzene		*99.0 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: 1,2-Dichloroethane-d4		*95.3 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/21/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/22/23	
Surrogate: Bromofluorobenzene		*99.0 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: 1,2-Dichloroethane-d4		*95.3 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/21/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*84.4 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347067
Chloride	ND	200	10	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:54:05PM

SP 64-6'

E311181-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Benzene	ND	0.0250	1	11/21/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/22/23	
Toluene	ND	0.0250	1	11/21/23	11/22/23	
o-Xylene	ND	0.0250	1	11/21/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/22/23	
Surrogate: Bromofluorobenzene		*96.6 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.7 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*11/21/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347063
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/22/23	
Surrogate: Bromofluorobenzene		*96.6 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.7 %*	*70-130*	*11/21/23*	*11/22/23*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*11/21/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*83.9 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347067
Chloride	ND	200	10	11/21/23	11/21/23	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:54:05PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2347063-BLK1)									Prepared: 11/21/23 Analyzed: 11/22/23
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: Bromofluorobenzene	*0.490*		*0.500*		*97.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.468*		*0.500*		*93.6*	*70-130*			
Surrogate: Toluene-d8	*0.547*		*0.500*		*109*	*70-130*			
LCS (2347063-BS1)									Prepared: 11/21/23 Analyzed: 11/22/23
Benzene	2.54	0.0250	2.50		101	70-130			
Ethylbenzene	2.62	0.0250	2.50		105	70-130			
Toluene	2.61	0.0250	2.50		105	70-130			
o-Xylene	2.51	0.0250	2.50		100	70-130			
p,m-Xylene	5.05	0.0500	5.00		101	70-130			
Total Xylenes	7.56	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	*0.480*		*0.500*		*96.0*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.474*		*0.500*		*94.8*	*70-130*			
Surrogate: Toluene-d8	*0.532*		*0.500*		*106*	*70-130*			
Matrix Spike (2347063-MS1)				**Source: E311180-03**					Prepared: 11/21/23 Analyzed: 11/22/23
Benzene	2.45	0.0250	2.50	ND	97.9	48-131			
Ethylbenzene	2.56	0.0250	2.50	ND	103	45-135			
Toluene	2.59	0.0250	2.50	ND	104	48-130			
o-Xylene	2.45	0.0250	2.50	ND	98.1	43-135			
p,m-Xylene	4.97	0.0500	5.00	ND	99.4	43-135			
Total Xylenes	7.42	0.0250	7.50	ND	99.0	43-135			
Surrogate: Bromofluorobenzene	*0.469*		*0.500*		*93.8*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.473*		*0.500*		*94.6*	*70-130*			
Surrogate: Toluene-d8	*0.536*		*0.500*		*107*	*70-130*			
Matrix Spike Dup (2347063-MSD1)				**Source: E311180-03**					Prepared: 11/21/23 Analyzed: 11/22/23
Benzene	2.62	0.0250	2.50	ND	105	48-131	6.67	23	
Ethylbenzene	2.81	0.0250	2.50	ND	113	45-135	9.30	27	
Toluene	2.85	0.0250	2.50	ND	114	48-130	9.25	24	
o-Xylene	2.69	0.0250	2.50	ND	107	43-135	9.07	27	
p,m-Xylene	5.42	0.0500	5.00	ND	108	43-135	8.72	27	
Total Xylenes	8.11	0.0250	7.50	ND	108	43-135	8.84	27	
Surrogate: Bromofluorobenzene	*0.482*		*0.500*		*96.4*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.473*		*0.500*		*94.6*	*70-130*			
Surrogate: Toluene-d8	*0.548*		*0.500*		*110*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:54:05PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2347063-BLK1)									Prepared: 11/21/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.490*		*0.500*		*97.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.468*		*0.500*		*93.6*	*70-130*			
Surrogate: Toluene-d8	*0.547*		*0.500*		*109*	*70-130*			
LCS (2347063-BS2)									Prepared: 11/21/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	55.8	20.0	50.0		112	70-130			
Surrogate: Bromofluorobenzene	*0.506*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.476*		*0.500*		*95.2*	*70-130*			
Surrogate: Toluene-d8	*0.562*		*0.500*		*112*	*70-130*			
Matrix Spike (2347063-MS2)				**Source: E311180-03**					Prepared: 11/21/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	*0.504*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.493*		*0.500*		*98.5*	*70-130*			
Surrogate: Toluene-d8	*0.556*		*0.500*		*111*	*70-130*			
Matrix Spike Dup (2347063-MSD2)				**Source: E311180-03**					Prepared: 11/21/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130	3.64	20	
Surrogate: Bromofluorobenzene	*0.495*		*0.500*		*98.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.493*		*0.500*		*98.6*	*70-130*			
Surrogate: Toluene-d8	*0.553*		*0.500*		*111*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:54:05PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2347075-BLK1)									Prepared: 11/21/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*41.0*		*50.0*		*82.1*	*50-200*			
LCS (2347075-BS1)									Prepared: 11/21/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	249	25.0	250		99.6	38-132			
Surrogate: n-Nonane	*45.2*		*50.0*		*90.4*	*50-200*			
Matrix Spike (2347075-MS1)				**Source: E311180-01**					Prepared: 11/21/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.9	38-132			
Surrogate: n-Nonane	*44.2*		*50.0*		*88.4*	*50-200*			
Matrix Spike Dup (2347075-MSD1)				**Source: E311180-01**					Prepared: 11/21/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.0	38-132	2.98	20	
Surrogate: n-Nonane	*43.6*		*50.0*		*87.2*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 4:54:05PM

Anions by EPA 300.0/9056A

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 (2347067-BLK1)									Prepared: 11/21/23 Analyzed: 11/21/23
Chloride	ND	20.0							
LCS (2347067-BS1)									Prepared: 11/21/23 Analyzed: 11/21/23
Chloride	249	20.0	250		99.6	90-110			
Matrix Spike (2347067-MS1)				**Source: E311181-01**					Prepared: 11/21/23 Analyzed: 11/21/23
Chloride	288	200	250	ND	115	80-120			
Matrix Spike Dup (2347067-MSD1)				**Source: E311181-01**					Prepared: 11/21/23 Analyzed: 11/21/23
Chloride	277	200	250	ND	111	80-120	3.99	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/23 16:54

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client: Mack Energy
Project: West Mount #1
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E 311181
Job Number 200416-0009

TAT: 1D X | 2D | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

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	BGDOC NM	BGDOC TX	Remarks
	11/19/23	S	1	SP 60 - 8'	1							X		
	〃	〃	〃	SP 61 - 8'	2							〃		
				SP 62 - 6'	3									
				SP 63 - 8'	4									
	11/19/23	S	1	SP 64 - 6'	5							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	11/19/23			11/20/23	1430
	11/20/23	1730		11/20/23	2420
	11/20/23	1830		11/21/23	7:30

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Envirotech Analytical Laboratory

Printed: 11/21/2023 11:13:22AM

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:	11/21/23 07:30	Work Order ID:	E311181
Phone:	(575) 390-6397	Date Logged In:	11/20/23 16:16	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	11/22/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Time sampled not provided on COC per client.

Project manager not on COC; Natalie Gladden.

Client Instruction

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

Date

envirotech 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:	West Mount #1
Work Order:	E311182
Job Number:	20046-0001
Received:	11/21/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/22/23

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.
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Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/22/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E311182
Date Received: 11/21/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/21/2023 7:30:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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,

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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/23 17:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 36-10'	E311182-01A	Soil	11/17/23	11/21/23	Glass Jar, 2 oz.
SP 37-8'	E311182-02A	Soil	11/17/23	11/21/23	Glass Jar, 2 oz.
SP 38-12'	E311182-03A	Soil	11/17/23	11/21/23	Glass Jar, 2 oz.
SP 39-6'	E311182-04A	Soil	11/17/23	11/21/23	Glass Jar, 2 oz.
SP 40-6'	E311182-05A	Soil	11/17/23	11/21/23	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 5:07:03PM

SP 36-10'

E311182-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347064
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.5 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.7 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*95.8 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347067
Chloride	ND	200	10	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 5:07:03PM

SP 37-8'

E311182-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347064
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.2 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.2 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*97.3 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347067
Chloride	ND	200	10	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 5:07:03PM

SP 38-12'

E311182-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347064
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*94.7 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347067
Chloride	ND	200	10	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 5:07:03PM

SP 39-6'

E311182-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347064
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.6 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*91.4 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347067
Chloride	ND	200	10	11/21/23	11/21/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 5:07:03PM

SP 40-6'

E311182-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2347064
Benzene	ND	0.0250	1	11/21/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/21/23	11/21/23	
Toluene	ND	0.0250	1	11/21/23	11/21/23	
o-Xylene	ND	0.0250	1	11/21/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/21/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/21/23	11/21/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2347064
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/23	11/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.1 %*	*70-130*	*11/21/23*	*11/21/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347075
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/23	11/22/23	
Surrogate: n-Nonane		*95.6 %*	*50-200*	*11/21/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347067
Chloride	ND	200	10	11/21/23	11/21/23	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 5:07:03PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2347064-BLK1)									Prepared: 11/21/23 Analyzed: 11/22/23
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	*7.02*		*8.00*		*87.8*	*70-130*			
LCS (2347064-BS1)									Prepared: 11/21/23 Analyzed: 11/22/23
Benzene	4.13	0.0250	5.00		82.6	70-130			
Ethylbenzene	4.73	0.0250	5.00		94.7	70-130			
Toluene	4.68	0.0250	5.00		93.7	70-130			
o-Xylene	4.88	0.0250	5.00		97.6	70-130			
p,m-Xylene	9.79	0.0500	10.0		97.9	70-130			
Total Xylenes	14.7	0.0250	15.0		97.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.11*		*8.00*		*88.8*	*70-130*			
Matrix Spike (2347064-MS1)				**Source: E311184-02**					Prepared: 11/21/23 Analyzed: 11/22/23
Benzene	3.76	0.0250	5.00	ND	75.2	54-133			
Ethylbenzene	4.47	0.0250	5.00	ND	89.3	61-133			
Toluene	4.37	0.0250	5.00	ND	87.5	61-130			
o-Xylene	4.59	0.0250	5.00	ND	91.9	63-131			
p,m-Xylene	9.26	0.0500	10.0	ND	92.6	63-131			
Total Xylenes	13.9	0.0250	15.0	ND	92.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.00*		*8.00*		*87.5*	*70-130*			
Matrix Spike Dup (2347064-MSD1)				**Source: E311184-02**					Prepared: 11/21/23 Analyzed: 11/22/23
Benzene	4.08	0.0250	5.00	ND	81.6	54-133	8.11	20	
Ethylbenzene	4.92	0.0250	5.00	ND	98.3	61-133	9.63	20	
Toluene	4.80	0.0250	5.00	ND	95.9	61-130	9.25	20	
o-Xylene	5.08	0.0250	5.00	ND	102	63-131	10.0	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	9.42	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	9.62	20	
Surrogate: 4-Bromochlorobenzene-PID	*6.96*		*8.00*		*87.0*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 5:07:03PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2347064-BLK1)									Prepared: 11/21/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.37*		*8.00*		*92.2*	*70-130*			
LCS (2347064-BS2)									Prepared: 11/21/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.46*		*8.00*		*93.2*	*70-130*			
Matrix Spike (2347064-MS2)				**Source: E311184-02**					Prepared: 11/21/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.49*		*8.00*		*93.6*	*70-130*			
Matrix Spike Dup (2347064-MSD2)				**Source: E311184-02**					Prepared: 11/21/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	10.1	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.47*		*8.00*		*93.4*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 5:07:03PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2347075-BLK1)									Prepared: 11/21/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*41.0*		*50.0*		*82.1*	*50-200*			
LCS (2347075-BS1)									Prepared: 11/21/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	249	25.0	250		99.6	38-132			
Surrogate: n-Nonane	*45.2*		*50.0*		*90.4*	*50-200*			
Matrix Spike (2347075-MS1)				**Source: E311180-01**					Prepared: 11/21/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.9	38-132			
Surrogate: n-Nonane	*44.2*		*50.0*		*88.4*	*50-200*			
Matrix Spike Dup (2347075-MSD1)				**Source: E311180-01**					Prepared: 11/21/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	240	25.0	250	ND	96.0	38-132	2.98	20	
Surrogate: n-Nonane	*43.6*		*50.0*		*87.2*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/2023 5:07:03PM

Anions by EPA 300.0/9056A

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 (2347067-BLK1)									Prepared: 11/21/23 Analyzed: 11/21/23
Chloride	ND	20.0							
LCS (2347067-BS1)									Prepared: 11/21/23 Analyzed: 11/21/23
Chloride	249	20.0	250		99.6	90-110			
Matrix Spike (2347067-MS1)				**Source: E311181-01**					Prepared: 11/21/23 Analyzed: 11/21/23
Chloride	288	200	250	ND	115	80-120			
Matrix Spike Dup (2347067-MSD1)				**Source: E311181-01**					Prepared: 11/21/23 Analyzed: 11/21/23
Chloride	277	200	250	ND	111	80-120	3.99	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/22/23 17:07

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Page 1 of 1

Client: Mack Energy
Project: West Moon #1
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E 311782 Job Number 20040-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	11/17/23	S	1	SP 36 - 10'	1	X	
				SP 37 - 8'	2		
				SP 38 - 12'	3		
				SP 39 - 6'	4		
	11/17/23	S	1	SP 40 - 6'	5	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	11/17/23			11/20/23	1430
	11/20/23	1730		11/20/23	2120
	11/20/23	1830	Samantha	11/21/23	7:30

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Envirotech Analytical Laboratory

Printed: 11/21/2023 11:22:55AM

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:	11/21/23 07:30	Work Order ID:	E311182
Phone:	(575) 390-6397	Date Logged In:	11/20/23 16:22	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	11/22/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Time sampled not provided on COC per client.

Project manager not on COC; Natalie Gladden.

Client Instruction

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

Date

envirotech 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: West Mount 1

Work Order: E311191

Job Number: 20046-0001

Received: 11/22/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/27/23

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: 11/27/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount 1
Workorder: E311191
Date Received: 11/22/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/22/2023 7:30:00AM, under the Project Name: West Mount 1.

The analytical test results summarized in this report with the Project Name: West Mount 1 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
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Cell: 775-287-1762
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Sample Summary

Mack Energy	Project Name:	West Mount 1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/23 15:37

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1-8'	E311191-01A	Soil	11/20/23	11/22/23	Glass Jar, 2 oz.
SP2-4'	E311191-02A	Soil	11/20/23	11/22/23	Glass Jar, 2 oz.
SP3-4'	E311191-03A	Soil	11/20/23	11/22/23	Glass Jar, 2 oz.
SP4-4'	E311191-04A	Soil	11/20/23	11/22/23	Glass Jar, 2 oz.
SP5-4'	E311191-05A	Soil	11/20/23	11/22/23	Glass Jar, 2 oz.
SP6-4'	E311191-06A	Soil	11/20/23	11/22/23	Glass Jar, 2 oz.
SP7-6'	E311191-07A	Soil	11/20/23	11/22/23	Glass Jar, 2 oz.
SP8-6'	E311191-08A	Soil	11/20/23	11/22/23	Glass Jar, 2 oz.
SP9-4'	E311191-09A	Soil	11/20/23	11/22/23	Glass Jar, 2 oz.
SP10-6'	E311191-10A	Soil	11/20/23	11/22/23	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount 1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 3:37:38PM

SP1-8'

E311191-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Benzene	ND	0.0250	1	11/22/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/22/23	11/22/23	
Toluene	ND	0.0250	1	11/22/23	11/22/23	
o-Xylene	ND	0.0250	1	11/22/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/22/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/22/23	11/22/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.7 %*	*70-130*	*11/22/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/23	11/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*11/22/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/23	11/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/23	11/22/23	
Surrogate: n-Nonane		*93.7 %*	*50-200*	*11/22/23*	*11/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347093
Chloride	ND	200	10	11/22/23	11/22/23	

Sample Data

Mack Energy	Project Name:	West Mount 1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 3:37:38PM

SP2-4'

E311191-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Benzene	ND	0.0250	1	11/22/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/22/23	11/22/23	
Toluene	ND	0.0250	1	11/22/23	11/22/23	
o-Xylene	ND	0.0250	1	11/22/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/22/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/22/23	11/22/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.7 %*	*70-130*	*11/22/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/23	11/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.2 %*	*70-130*	*11/22/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/23	11/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/23	11/23/23	
Surrogate: n-Nonane		*99.2 %*	*50-200*	*11/22/23*	*11/23/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347093
Chloride	**341**	200	10	11/22/23	11/22/23	

Sample Data

Mack Energy	Project Name:	West Mount 1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 3:37:38PM

SP3-4'

E311191-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Benzene	ND	0.0250	1	11/22/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/22/23	11/22/23	
Toluene	ND	0.0250	1	11/22/23	11/22/23	
o-Xylene	ND	0.0250	1	11/22/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/22/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/22/23	11/22/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.4 %*	*70-130*	*11/22/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/23	11/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.7 %*	*70-130*	*11/22/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/23	11/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/23	11/23/23	
Surrogate: n-Nonane		*96.7 %*	*50-200*	*11/22/23*	*11/23/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347093
Chloride	ND	200	10	11/22/23	11/22/23	

Sample Data

Mack Energy	Project Name:	West Mount 1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 3:37:38PM

SP4-4'

E311191-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Benzene	ND	0.0250	1	11/22/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/22/23	11/22/23	
Toluene	ND	0.0250	1	11/22/23	11/22/23	
o-Xylene	ND	0.0250	1	11/22/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/22/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/22/23	11/22/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.9 %*	*70-130*	*11/22/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/23	11/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.0 %*	*70-130*	*11/22/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/23	11/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/23	11/23/23	
Surrogate: n-Nonane		*97.5 %*	*50-200*	*11/22/23*	*11/23/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347093
Chloride	ND	200	10	11/22/23	11/22/23	

Sample Data

Mack Energy	Project Name:	West Mount 1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 3:37:38PM

SP5-4'

E311191-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Benzene	ND	0.0250	1	11/22/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/22/23	11/22/23	
Toluene	ND	0.0250	1	11/22/23	11/22/23	
o-Xylene	ND	0.0250	1	11/22/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/22/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/22/23	11/22/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*11/22/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/23	11/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.3 %*	*70-130*	*11/22/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/23	11/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/23	11/23/23	
Surrogate: n-Nonane		*94.1 %*	*50-200*	*11/22/23*	*11/23/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347093
Chloride	ND	200	10	11/22/23	11/22/23	

Sample Data

Mack Energy	Project Name:	West Mount 1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 3:37:38PM

SP6-4'

E311191-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Benzene	ND	0.0250	1	11/22/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/22/23	11/22/23	
Toluene	ND	0.0250	1	11/22/23	11/22/23	
o-Xylene	ND	0.0250	1	11/22/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/22/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/22/23	11/22/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.3 %*	*70-130*	*11/22/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/23	11/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.3 %*	*70-130*	*11/22/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/23	11/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/23	11/23/23	
Surrogate: n-Nonane		*92.2 %*	*50-200*	*11/22/23*	*11/23/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347093
Chloride	ND	200	10	11/22/23	11/22/23	

Sample Data

Mack Energy	Project Name:	West Mount 1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 3:37:38PM

SP7-6'

E311191-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Benzene	ND	0.0250	1	11/22/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/22/23	11/22/23	
Toluene	ND	0.0250	1	11/22/23	11/22/23	
o-Xylene	ND	0.0250	1	11/22/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/22/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/22/23	11/22/23	
Surrogate: 4-Bromochlorobenzene-PID		*91.8 %*	*70-130*	*11/22/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/23	11/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.4 %*	*70-130*	*11/22/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/23	11/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/23	11/23/23	
Surrogate: n-Nonane		*94.7 %*	*50-200*	*11/22/23*	*11/23/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347093
Chloride	ND	200	10	11/22/23	11/22/23	

Sample Data

Mack Energy	Project Name:	West Mount 1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 3:37:38PM

SP8-6'

E311191-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Benzene	ND	0.0250	1	11/22/23	11/22/23	
Ethylbenzene	ND	0.0250	1	11/22/23	11/22/23	
Toluene	ND	0.0250	1	11/22/23	11/22/23	
o-Xylene	ND	0.0250	1	11/22/23	11/22/23	
p,m-Xylene	ND	0.0500	1	11/22/23	11/22/23	
Total Xylenes	ND	0.0250	1	11/22/23	11/22/23	
Surrogate: 4-Bromochlorobenzene-PID		*91.5 %*	*70-130*	*11/22/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/23	11/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.1 %*	*70-130*	*11/22/23*	*11/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/23	11/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/23	11/23/23	
Surrogate: n-Nonane		*98.6 %*	*50-200*	*11/22/23*	*11/23/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347093
Chloride	ND	200	10	11/22/23	11/22/23	

Sample Data

Mack Energy	Project Name:	West Mount 1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 3:37:38PM

SP9-4'

E311191-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Benzene	ND	0.0250	1	11/22/23	11/23/23	
Ethylbenzene	ND	0.0250	1	11/22/23	11/23/23	
Toluene	ND	0.0250	1	11/22/23	11/23/23	
o-Xylene	ND	0.0250	1	11/22/23	11/23/23	
p,m-Xylene	ND	0.0500	1	11/22/23	11/23/23	
Total Xylenes	ND	0.0250	1	11/22/23	11/23/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.8 %*	*70-130*	*11/22/23*	*11/23/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/23	11/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.4 %*	*70-130*	*11/22/23*	*11/23/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/23	11/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/23	11/23/23	
Surrogate: n-Nonane		*99.4 %*	*50-200*	*11/22/23*	*11/23/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347093
Chloride	ND	200	10	11/22/23	11/22/23	

Sample Data

Mack Energy	Project Name:	West Mount 1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 3:37:38PM

SP10-6'

E311191-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Benzene	ND	0.0250	1	11/22/23	11/23/23	
Ethylbenzene	ND	0.0250	1	11/22/23	11/23/23	
Toluene	ND	0.0250	1	11/22/23	11/23/23	
o-Xylene	ND	0.0250	1	11/22/23	11/23/23	
p,m-Xylene	ND	0.0500	1	11/22/23	11/23/23	
Total Xylenes	ND	0.0250	1	11/22/23	11/23/23	
Surrogate: 4-Bromochlorobenzene-PID		*89.7 %*	*70-130*	*11/22/23*	*11/23/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2347082
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/23	11/23/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.2 %*	*70-130*	*11/22/23*	*11/23/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2347080
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/23	11/23/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/23	11/23/23	
Surrogate: n-Nonane		*97.2 %*	*50-200*	*11/22/23*	*11/23/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2347093
Chloride	ND	200	10	11/22/23	11/22/23	

QC Summary Data

Mack Energy	Project Name:	West Mount 1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 3:37:38PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2347082-BLK1)									Prepared: 11/22/23 Analyzed: 11/22/23
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	*7.70*		*8.00*		*96.2*	*70-130*			
LCS (2347082-BS1)									Prepared: 11/22/23 Analyzed: 11/22/23
Benzene	5.01	0.0250	5.00		100	70-130			
Ethylbenzene	4.81	0.0250	5.00		96.2	70-130			
Toluene	5.00	0.0250	5.00		99.9	70-130			
o-Xylene	4.93	0.0250	5.00		98.5	70-130			
p,m-Xylene	9.94	0.0500	10.0		99.4	70-130			
Total Xylenes	14.9	0.0250	15.0		99.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.82*		*8.00*		*97.7*	*70-130*			
Matrix Spike (2347082-MS1)				**Source: E311191-01**					Prepared: 11/22/23 Analyzed: 11/22/23
Benzene	5.12	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	61-133			
Toluene	5.11	0.0250	5.00	ND	102	61-130			
o-Xylene	5.03	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.77*		*8.00*		*97.2*	*70-130*			
Matrix Spike Dup (2347082-MSD1)				**Source: E311191-01**					Prepared: 11/22/23 Analyzed: 11/22/23
Benzene	5.04	0.0250	5.00	ND	101	54-133	1.66	20	
Ethylbenzene	4.84	0.0250	5.00	ND	96.8	61-133	1.42	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	1.52	20	
o-Xylene	4.96	0.0250	5.00	ND	99.3	63-131	1.33	20	
p,m-Xylene	9.99	0.0500	10.0	ND	99.9	63-131	1.52	20	
Total Xylenes	15.0	0.0250	15.0	ND	99.7	63-131	1.46	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.78*		*8.00*		*97.3*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount 1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 3:37:38PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2347082-BLK1)									Prepared: 11/22/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.40*		*8.00*		*92.5*	*70-130*			
LCS (2347082-BS2)									Prepared: 11/22/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.47*		*8.00*		*93.4*	*70-130*			
Matrix Spike (2347082-MS2)				**Source: E311191-01**					Prepared: 11/22/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	48.9	20.0	50.0	ND	97.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.54*		*8.00*		*94.2*	*70-130*			
Matrix Spike Dup (2347082-MSD2)				**Source: E311191-01**					Prepared: 11/22/23 Analyzed: 11/22/23
Gasoline Range Organics (C6-C10)	48.5	20.0	50.0	ND	97.0	70-130	0.931	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.47*		*8.00*		*93.3*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount 1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 3:37:38PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2347080-BLK1)									Prepared: 11/22/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*50.3*		*50.0*		*101*	*50-200*			
LCS (2347080-BS1)									Prepared: 11/22/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	250	25.0	250		100	38-132			
Surrogate: n-Nonane	*49.2*		*50.0*		*98.4*	*50-200*			
Matrix Spike (2347080-MS1)				**Source: E311143-07**					Prepared: 11/22/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	284	25.0	250	ND	114	38-132			
Surrogate: n-Nonane	*47.5*		*50.0*		*94.9*	*50-200*			
Matrix Spike Dup (2347080-MSD1)				**Source: E311143-07**					Prepared: 11/22/23 Analyzed: 11/22/23
Diesel Range Organics (C10-C28)	271	25.0	250	ND	109	38-132	4.57	20	
Surrogate: n-Nonane	*44.4*		*50.0*		*88.8*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount 1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 3:37:38PM

Anions by EPA 300.0/9056A

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 (2347093-BLK1)									Prepared: 11/22/23 Analyzed: 11/22/23
Chloride	ND	20.0							
LCS (2347093-BS1)									Prepared: 11/22/23 Analyzed: 11/22/23
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2347093-MS1)				**Source: E311191-03**					Prepared: 11/22/23 Analyzed: 11/22/23
Chloride	300	200	250	ND	120	80-120			
Matrix Spike Dup (2347093-MSD1)				**Source: E311191-03**					Prepared: 11/22/23 Analyzed: 11/22/23
Chloride	263	200	250	ND	105	80-120	13.2	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 1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/23 15:37

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 1

Client:	Mack Energy
Project:	Westmount 1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO# E311191 | Job Number 200460-0001

TAT

1D	2D	3D	Standard
	X		

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

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	BGDOC NM	BGDOC TX	Remarks
	11/20/23	S	1	Sp1 - 8	1							X		
				Sp2 - 4	2									
				Sp3 - 4	3									
				Sp4 - 4	4									
				Sp5 - 4	5									
				Sp6 - 4	6									
				Sp7 - 6	7									
				Sp8 - 6	8									
				Sp9 - 4	9									
	11/20/23	S	1	Sp10 - 6	10							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Andy Touga

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Andy Touga	11/20/23			11.21.23	1530
	11.21.23	1740		11/22/23	7:30

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

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Envirotech Analytical Laboratory

Printed: 11/22/2023 8:29:22AM

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:	11/22/23 07:30	Work Order ID:	E311191
Phone:	(575) 390-6397	Date Logged In:	11/21/23 15:57	Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	11/27/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Time sampled not provided on COC per client.

Project manager not listed on COC. Natalie Gladden.

Client Instruction

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

Date

envirotech 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: West Mount 1

Work Order: E311192

Job Number: 20046-0001

Received: 11/22/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/27/23

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: 11/27/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount 1
Workorder: E311192
Date Received: 11/22/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/22/2023 7:30:00AM, under the Project Name: West Mount 1.

The analytical test results summarized in this report with the Project Name: West Mount 1 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 1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/23 16:04

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1-2'	E311192-01A	Soil	11/20/23	11/22/23	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount 1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 4:04:47PM

SW1-2'

E311192-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2348022
Benzene	ND	0.0250	1	11/27/23	11/27/23	
Ethylbenzene	ND	0.0250	1	11/27/23	11/27/23	
Toluene	ND	0.0250	1	11/27/23	11/27/23	
o-Xylene	ND	0.0250	1	11/27/23	11/27/23	
p,m-Xylene	ND	0.0500	1	11/27/23	11/27/23	
Total Xylenes	ND	0.0250	1	11/27/23	11/27/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.7 %*	*70-130*	*11/27/23*	*11/27/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2348022
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/27/23	11/27/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.2 %*	*70-130*	*11/27/23*	*11/27/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2348015
Diesel Range Organics (C10-C28)	ND	25.0	1	11/27/23	11/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/27/23	11/27/23	
Surrogate: n-Nonane		*92.3 %*	*50-200*	*11/27/23*	*11/27/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2348028
Chloride	ND	20.0	1	11/27/23	11/27/23	

QC Summary Data

Mack Energy	Project Name:	West Mount 1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 4:04:47PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2348022-BLK1)									Prepared: 11/27/23 Analyzed: 11/27/23
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	*7.40*		*8.00*		*92.5*	*70-130*			
LCS (2348022-BS1)									Prepared: 11/27/23 Analyzed: 11/27/23
Benzene	5.56	0.0250	5.00		111	70-130			
Ethylbenzene	5.47	0.0250	5.00		109	70-130			
Toluene	5.53	0.0250	5.00		111	70-130			
o-Xylene	5.46	0.0250	5.00		109	70-130			
p,m-Xylene	11.1	0.0500	10.0		111	70-130			
Total Xylenes	16.6	0.0250	15.0		111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.43*		*8.00*		*92.8*	*70-130*			
Matrix Spike (2348022-MS1)				**Source: E311192-01**					Prepared: 11/27/23 Analyzed: 11/27/23
Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.96	0.0250	5.00	ND	99.2	61-133			
Toluene	5.02	0.0250	5.00	ND	100	61-130			
o-Xylene	4.94	0.0250	5.00	ND	98.9	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.42*		*8.00*		*92.7*	*70-130*			
Matrix Spike Dup (2348022-MSD1)				**Source: E311192-01**					Prepared: 11/27/23 Analyzed: 11/27/23
Benzene	5.07	0.0250	5.00	ND	101	54-133	0.572	20	
Ethylbenzene	5.01	0.0250	5.00	ND	100	61-133	0.943	20	
Toluene	5.05	0.0250	5.00	ND	101	61-130	0.629	20	
o-Xylene	4.99	0.0250	5.00	ND	99.7	63-131	0.838	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.929	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	0.899	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.48*		*8.00*		*93.4*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount 1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 4:04:47PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2348022-BLK1)									Prepared: 11/27/23 Analyzed: 11/27/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.86*		*8.00*		*98.3*	*70-130*			
LCS (2348022-BS2)									Prepared: 11/27/23 Analyzed: 11/27/23
Gasoline Range Organics (C6-C10)	56.9	20.0	50.0		114	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.07*		*8.00*		*101*	*70-130*			
Matrix Spike (2348022-MS2)				**Source: E311192-01**					Prepared: 11/27/23 Analyzed: 11/27/23
Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.24*		*8.00*		*103*	*70-130*			
Matrix Spike Dup (2348022-MSD2)				**Source: E311192-01**					Prepared: 11/27/23 Analyzed: 11/27/23
Gasoline Range Organics (C6-C10)	55.1	20.0	50.0	ND	110	70-130	0.0655	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.90*		*8.00*		*98.7*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount 1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 4:04:47PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2348015-BLK1)									Prepared: 11/27/23 Analyzed: 11/27/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*46.1*		*50.0*		*92.1*	*50-200*			
LCS (2348015-BS1)									Prepared: 11/27/23 Analyzed: 11/27/23
Diesel Range Organics (C10-C28)	243	25.0	250		97.1	38-132			
Surrogate: n-Nonane	*46.3*		*50.0*		*92.5*	*50-200*			
Matrix Spike (2348015-MS1)				**Source: E311166-01**					Prepared: 11/27/23 Analyzed: 11/27/23
Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.3	38-132			
Surrogate: n-Nonane	*47.2*		*50.0*		*94.4*	*50-200*			
Matrix Spike Dup (2348015-MSD1)				**Source: E311166-01**					Prepared: 11/27/23 Analyzed: 11/27/23
Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.2	38-132	0.878	20	
Surrogate: n-Nonane	*42.1*		*50.0*		*84.2*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount 1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/2023 4:04:47PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2348028-BLK1)									Prepared: 11/27/23 Analyzed: 11/27/23
Chloride	ND	20.0							
LCS (2348028-BS1)									Prepared: 11/27/23 Analyzed: 11/27/23
Chloride	253	20.0	250		101	90-110			
LCS Dup (2348028-BSD1)									Prepared: 11/27/23 Analyzed: 11/27/23
Chloride	264	20.0	250		105	90-110	4.01	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 1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/27/23 16:04

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 1

Client:	Mack Energy
Project:	West Mount 1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO# E311192 | Job Number 200460-0001

TAT

1D	2D	3D	Standard
	X		

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX
X				

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	BGDOC NM	BGDOC TX	Remarks
	11/20/23	S	1	SW1-2"	1							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Andy Tovar

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Andy Tovar	11/20/23			11.21.23	1530
	11.21.23	1740		11/22/23	7:30

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Envirotech Analytical Laboratory

Printed: 11/27/2023 8:32:33AM

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:	11/22/23 07:30	Work Order ID:	E311192
Phone:	(575) 390-6397	Date Logged In:	11/21/23 16:14	Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	11/27/23 17:00 (1 day TAT)		

Chain of Custody (COC)		
1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	
Sample Turn Around Time (TAT)		
6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	
Sample Cooler		
7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		
Sample Container		
14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	
Sample Preservation		
21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Time sampled not provided on COC per client.

Project manager not listed on COC per client. Natalie Gladden.

Client Instruction

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

Date

envirotech 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:	West Mount #1
Work Order:	E311210
Job Number:	20046-0001
Received:	11/28/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/29/23

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: 11/29/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E311210
Date Received: 11/28/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/28/2023 7:30:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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
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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/23 15:58

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP41-4'	E311210-01A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SP42-4'	E311210-02A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SP43-4'	E311210-03A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SP44-4'	E311210-04A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SP45-4'	E311210-05A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SP46-4'	E311210-06A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SP47-4'	E311210-07A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SP48-6'	E311210-08A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SP49-6'	E311210-09A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.
SP50-8'	E311210-10A	Soil	11/22/23	11/28/23	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:58:32PM

SP41-4'

E311210-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*96.9 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*98.5 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*114 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*96.9 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*98.5 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*114 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2348043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane		*95.8 %*	*50-200*	*11/28/23*	*11/28/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2348047
Chloride	**166**	20.0	1	11/28/23	11/28/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:58:32PM

SP42-4'

E311210-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*97.9 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*98.6 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*97.9 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*98.6 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2348043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/28/23	
Surrogate: n-Nonane		*96.4 %*	*50-200*	*11/28/23*	*11/28/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2348047
Chloride	**166**	20.0	1	11/28/23	11/28/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:58:32PM

SP43-4'

E311210-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*99.4 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*99.4 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2348043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/29/23	
Surrogate: n-Nonane		*98.1 %*	*50-200*	*11/28/23*	*11/29/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2348047
Chloride	**164**	20.0	1	11/28/23	11/28/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:58:32PM

SP44-4'

E311210-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*97.6 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*95.8 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*97.6 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*95.8 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2348043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/29/23	
Surrogate: n-Nonane		*97.7 %*	*50-200*	*11/28/23*	*11/29/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2348047
Chloride	**159**	20.0	1	11/28/23	11/29/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:58:32PM

SP45-4'

E311210-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*98.6 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*98.6 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*98.6 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*98.6 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2348043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/29/23	
Surrogate: n-Nonane		*96.1 %*	*50-200*	*11/28/23*	*11/29/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2348047
Chloride	**163**	20.0	1	11/28/23	11/29/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:58:32PM

SP46-4'

E311210-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*97.2 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*97.2 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2348043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/29/23	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/28/23*	*11/29/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2348047
Chloride	**165**	20.0	1	11/28/23	11/29/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:58:32PM

SP47-4'

E311210-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*96.4 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.2 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*96.4 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*97.2 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2348043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/29/23	
Surrogate: n-Nonane		*98.6 %*	*50-200*	*11/28/23*	*11/29/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2348047
Chloride	**164**	20.0	1	11/28/23	11/29/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:58:32PM

SP48-6'

E311210-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*98.4 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*98.4 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2348043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/29/23	
Surrogate: n-Nonane		*101 %*	*50-200*	*11/28/23*	*11/29/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2348047
Chloride	**163**	20.0	1	11/28/23	11/29/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:58:32PM

SP49-6'

E311210-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*95.4 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*113 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*95.4 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*113 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2348043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/29/23	
Surrogate: n-Nonane		*104 %*	*50-200*	*11/28/23*	*11/29/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2348047
Chloride	**161**	20.0	1	11/28/23	11/29/23	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:58:32PM

SP50-8'

E311210-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Benzene	ND	0.0250	1	11/28/23	11/29/23	
Ethylbenzene	ND	0.0250	1	11/28/23	11/29/23	
Toluene	ND	0.0250	1	11/28/23	11/29/23	
o-Xylene	ND	0.0250	1	11/28/23	11/29/23	
p,m-Xylene	ND	0.0500	1	11/28/23	11/29/23	
Total Xylenes	ND	0.0250	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*94.7 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2348039
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/28/23	11/29/23	
Surrogate: Bromofluorobenzene		*94.7 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/28/23*	*11/29/23*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*11/28/23*	*11/29/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2348043
Diesel Range Organics (C10-C28)	ND	25.0	1	11/28/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/28/23	11/29/23	
Surrogate: n-Nonane		*100 %*	*50-200*	*11/28/23*	*11/29/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2348047
Chloride	**166**	20.0	1	11/28/23	11/29/23	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:58:32PM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2348039-BLK1)									Prepared: 11/28/23 Analyzed: 11/28/23
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: Bromofluorobenzene	*0.488*		*0.500*		*97.6*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.488*		*0.500*		*97.6*	*70-130*			
Surrogate: Toluene-d8	*0.554*		*0.500*		*111*	*70-130*			
LCS (2348039-BS1)									Prepared: 11/28/23 Analyzed: 11/28/23
Benzene	2.47	0.0250	2.50		98.7	70-130			
Ethylbenzene	2.44	0.0250	2.50		97.6	70-130			
Toluene	2.55	0.0250	2.50		102	70-130			
o-Xylene	2.35	0.0250	2.50		94.1	70-130			
p,m-Xylene	4.72	0.0500	5.00		94.3	70-130			
Total Xylenes	7.07	0.0250	7.50		94.3	70-130			
Surrogate: Bromofluorobenzene	*0.483*		*0.500*		*96.6*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.498*		*0.500*		*99.6*	*70-130*			
Surrogate: Toluene-d8	*0.549*		*0.500*		*110*	*70-130*			
Matrix Spike (2348039-MS1)				**Source: E311210-06**					Prepared: 11/28/23 Analyzed: 11/29/23
Benzene	2.47	0.0250	2.50	ND	99.0	48-131			
Ethylbenzene	2.42	0.0250	2.50	ND	96.7	45-135			
Toluene	2.50	0.0250	2.50	ND	99.9	48-130			
o-Xylene	2.35	0.0250	2.50	ND	94.0	43-135			
p,m-Xylene	4.74	0.0500	5.00	ND	94.7	43-135			
Total Xylenes	7.09	0.0250	7.50	ND	94.5	43-135			
Surrogate: Bromofluorobenzene	*0.491*		*0.500*		*98.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.482*		*0.500*		*96.3*	*70-130*			
Surrogate: Toluene-d8	*0.544*		*0.500*		*109*	*70-130*			
Matrix Spike Dup (2348039-MSD1)				**Source: E311210-06**					Prepared: 11/28/23 Analyzed: 11/29/23
Benzene	2.61	0.0250	2.50	ND	104	48-131	5.33	23	
Ethylbenzene	2.58	0.0250	2.50	ND	103	45-135	6.33	27	
Toluene	2.70	0.0250	2.50	ND	108	48-130	7.85	24	
o-Xylene	2.47	0.0250	2.50	ND	98.6	43-135	4.80	27	
p,m-Xylene	4.98	0.0500	5.00	ND	99.7	43-135	5.12	27	
Total Xylenes	7.45	0.0250	7.50	ND	99.3	43-135	5.02	27	
Surrogate: Bromofluorobenzene	*0.475*		*0.500*		*95.0*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.495*		*0.500*		*99.0*	*70-130*			
Surrogate: Toluene-d8	*0.547*		*0.500*		*109*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:58:32PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2348039-BLK1)									Prepared: 11/28/23 Analyzed: 11/28/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.488*		*0.500*		*97.6*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.488*		*0.500*		*97.6*	*70-130*			
Surrogate: Toluene-d8	*0.554*		*0.500*		*111*	*70-130*			
LCS (2348039-BS2)									Prepared: 11/28/23 Analyzed: 11/28/23
Gasoline Range Organics (C6-C10)	51.8	20.0	50.0		104	70-130			
Surrogate: Bromofluorobenzene	*0.492*		*0.500*		*98.3*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.501*		*0.500*		*100*	*70-130*			
Surrogate: Toluene-d8	*0.569*		*0.500*		*114*	*70-130*			
Matrix Spike (2348039-MS2)				**Source: E311210-06**					Prepared: 11/28/23 Analyzed: 11/29/23
Gasoline Range Organics (C6-C10)	54.0	20.0	50.0	ND	108	70-130			
Surrogate: Bromofluorobenzene	*0.514*		*0.500*		*103*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.477*		*0.500*		*95.3*	*70-130*			
Surrogate: Toluene-d8	*0.563*		*0.500*		*113*	*70-130*			
Matrix Spike Dup (2348039-MSD2)				**Source: E311210-06**					Prepared: 11/28/23 Analyzed: 11/29/23
Gasoline Range Organics (C6-C10)	51.2	20.0	50.0	ND	102	70-130	5.26	20	
Surrogate: Bromofluorobenzene	*0.497*		*0.500*		*99.4*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.471*		*0.500*		*94.2*	*70-130*			
Surrogate: Toluene-d8	*0.563*		*0.500*		*113*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:58:32PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2348043-BLK1)									Prepared: 11/28/23 Analyzed: 11/28/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*50.2*		*50.0*		*100*	*50-200*			
LCS (2348043-BS1)									Prepared: 11/28/23 Analyzed: 11/28/23
Diesel Range Organics (C10-C28)	275	25.0	250		110	38-132			
Surrogate: n-Nonane	*54.8*		*50.0*		*110*	*50-200*			
Matrix Spike (2348043-MS1)				**Source: E311209-05**					Prepared: 11/28/23 Analyzed: 11/28/23
Diesel Range Organics (C10-C28)	264	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	*50.1*		*50.0*		*100*	*50-200*			
Matrix Spike Dup (2348043-MSD1)				**Source: E311209-05**					Prepared: 11/28/23 Analyzed: 11/28/23
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132	2.29	20	
Surrogate: n-Nonane	*50.3*		*50.0*		*101*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/2023 3:58:32PM

Anions by EPA 300.0/9056A

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 (2348047-BLK1)									Prepared: 11/28/23 Analyzed: 11/28/23
Chloride	ND	20.0							
LCS (2348047-BS1)									Prepared: 11/28/23 Analyzed: 11/29/23
Chloride	250	20.0	250		99.9	90-110			
Matrix Spike (2348047-MS1)				**Source: E311210-03**					Prepared: 11/28/23 Analyzed: 11/28/23
Chloride	418	20.0	250	164	102	80-120			
Matrix Spike Dup (2348047-MSD1)				**Source: E311210-03**					Prepared: 11/28/23 Analyzed: 11/28/23
Chloride	409	20.0	250	164	98.4	80-120	2.15	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/29/23 15:58

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client: MACK ENERGY
Project: WEST MOUNT #1
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E 311210
Job Number 20040-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM X | BGDOC TX | Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
	11/22/23	S	1	SP41-4'	1
				SP42-4'	2
				SP43-4'	3
				SP44-4'	4
				SP45-4'	5
				SP46-4'	6
				SP47-4'	7
				SP48-6'	8
				SP49-6'	9
				SP50-8'	10

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/22/23			11-27-23	1315
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11-27-23	1630		11.27.23	1700
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11.27.23	2245		11/28/23	7:30

Lab Use Only
Received on ice: Y N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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Envirotech Analytical Laboratory

Printed: 11/28/2023 10:09:16AM

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:	11/28/23 07:30	Work Order ID:	E311210
Phone:	(575) 390-6397	Date Logged In:	11/27/23 14:56	Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	11/29/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courrier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Time sampled not provided on COC.

Project manager not listed. Natalie Gladden

Client Instruction

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

Date

envirotech 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:	West Mount #1
Work Order:	E401014
Job Number:	20046-0001
Received:	1/7/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/9/24

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: 1/9/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E401014
Date Received: 1/7/2024 3:30:00PM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/7/2024 3:30:00PM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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
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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	01/09/24 16:13

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW 9-3'	E401014-01A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 10-2'	E401014-02A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 11-2'	E401014-03A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 12-2'	E401014-04A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 13-2'	E401014-05A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 14-2'	E401014-06A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 15-3'	E401014-07A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 16-2'	E401014-08A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 17-3'	E401014-09A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 18-2'	E401014-10A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 19-2'	E401014-11A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 20-2'	E401014-12A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 21-2'	E401014-13A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 22-2'	E401014-14A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 23-2'	E401014-15A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 24-2'	E401014-16A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 25-2'	E401014-17A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 26-2'	E401014-18A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 27-2'	E401014-19A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 28-2'	E401014-20A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 29-2'	E401014-21A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.
SW 30-2'	E401014-22A	Soil	01/03/24	01/07/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 9-3'

E401014-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.4 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.4 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*88.7 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402005
Chloride	ND	200	10	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 10-2'

E401014-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.0 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.0 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*93.8 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402005
Chloride	ND	20.0	1	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 11-2'

E401014-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*120 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.3 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*120 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*91.3 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*93.9 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402005
Chloride	**54.0**	20.0	1	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 12-2'

E401014-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*97.5 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.6 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*92.3 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*97.5 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.6 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*92.3 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*88.7 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402005
Chloride	ND	200	10	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 13-2'

E401014-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*97.6 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*92.2 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*97.6 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*92.2 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*85.2 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402005
Chloride	**204**	200	10	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 14-2'

E401014-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*98.3 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*92.5 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*98.3 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*92.5 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*74.8 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402005
Chloride	**216**	200	10	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 15-3'

E401014-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*97.5 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*91.5 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*97.5 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*91.5 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*77.1 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402005
Chloride	**333**	20.0	1	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 16-2'

E401014-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*98.1 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*92.7 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*98.1 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*92.7 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*77.1 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402005
Chloride	**460**	20.0	1	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 17-3'

E401014-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*91.4 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*91.4 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*78.2 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2402005
Chloride	ND	200	10	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 18-2'

E401014-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*91.5 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*91.5 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*78.6 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2402005
Chloride	ND	200	10	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 19-2'

E401014-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*99.0 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*91.9 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*99.0 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*91.9 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*77.5 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2402005
Chloride	ND	200	10	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 20-2'

E401014-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*98.0 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*90.6 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*98.0 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*90.6 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*76.4 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2402005
Chloride	ND	200	10	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 21-2'

E401014-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*121 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.5 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*121 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.5 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*84.7 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2402005
Chloride	ND	200	10	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 22-2'

E401014-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*117 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.7 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*117 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.7 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*88.7 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2402005
Chloride	ND	200	10	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 23-2'

E401014-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*121 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.5 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*121 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.5 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*88.9 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2402005
Chloride	ND	200	10	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 24-2'

E401014-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*118 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.8 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*118 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.8 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*91.7 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2402005
Chloride	ND	200	10	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 25-2'

E401014-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*117 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.1 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*117 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.1 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*93.4 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2402005
Chloride	ND	200	10	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 26-2'

E401014-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*116 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*116 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*94.8 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2402005
Chloride	ND	20.0	1	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 27-2'

E401014-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*118 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.2 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*118 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.2 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*93.9 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2402005
Chloride	ND	20.0	1	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 28-2'

E401014-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*120 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.5 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402002
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: Bromofluorobenzene		*120 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.5 %*	*70-130*	*01/08/24*	*01/08/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402006
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*96.2 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402005
Chloride	ND	20.0	1	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 29-2'

E401014-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.6 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402007
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*86.8 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402004
Chloride	ND	20.0	1	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

SW 30-2'

E401014-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.0 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.0 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402007
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*83.0 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2402004
Chloride	ND	200	10	01/08/24	01/08/24	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2402002-BLK1)									Prepared: 01/08/24 Analyzed: 01/08/24
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: Bromofluorobenzene	*0.550*		*0.500*		*110*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.458*		*0.500*		*91.6*	*70-130*			
Surrogate: Toluene-d8	*0.543*		*0.500*		*109*	*70-130*			
LCS (2402002-BS1)									Prepared: 01/08/24 Analyzed: 01/08/24
Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.66	0.0250	2.50		107	70-130			
Toluene	2.58	0.0250	2.50		103	70-130			
o-Xylene	2.67	0.0250	2.50		107	70-130			
p,m-Xylene	5.33	0.0500	5.00		107	70-130			
Total Xylenes	8.01	0.0250	7.50		107	70-130			
Surrogate: Bromofluorobenzene	*0.549*		*0.500*		*110*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.487*		*0.500*		*97.3*	*70-130*			
Surrogate: Toluene-d8	*0.543*		*0.500*		*109*	*70-130*			
Matrix Spike (2402002-MS1)				**Source: E401014-02**					Prepared: 01/08/24 Analyzed: 01/08/24
Benzene	2.59	0.0250	2.50	ND	104	48-131			
Ethylbenzene	2.73	0.0250	2.50	ND	109	45-135			
Toluene	2.66	0.0250	2.50	ND	106	48-130			
o-Xylene	2.74	0.0250	2.50	ND	109	43-135			
p,m-Xylene	5.48	0.0500	5.00	ND	110	43-135			
Total Xylenes	8.22	0.0250	7.50	ND	110	43-135			
Surrogate: Bromofluorobenzene	*0.546*		*0.500*		*109*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.472*		*0.500*		*94.3*	*70-130*			
Surrogate: Toluene-d8	*0.532*		*0.500*		*106*	*70-130*			
Matrix Spike Dup (2402002-MSD1)				**Source: E401014-02**					Prepared: 01/08/24 Analyzed: 01/08/24
Benzene	2.57	0.0250	2.50	ND	103	48-131	0.717	23	
Ethylbenzene	2.70	0.0250	2.50	ND	108	45-135	1.10	27	
Toluene	2.63	0.0250	2.50	ND	105	48-130	1.04	24	
o-Xylene	2.70	0.0250	2.50	ND	108	43-135	1.51	27	
p,m-Xylene	5.40	0.0500	5.00	ND	108	43-135	1.48	27	
Total Xylenes	8.10	0.0250	7.50	ND	108	43-135	1.49	27	
Surrogate: Bromofluorobenzene	*0.547*		*0.500*		*109*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.502*		*0.500*		*100*	*70-130*			
Surrogate: Toluene-d8	*0.534*		*0.500*		*107*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2402001-BLK1)									Prepared: 01/08/24 Analyzed: 01/08/24
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	*7.49*		*8.00*		*93.7*	*70-130*			
LCS (2402001-BS1)									Prepared: 01/08/24 Analyzed: 01/08/24
Benzene	5.02	0.0250	5.00		100	70-130			
Ethylbenzene	5.00	0.0250	5.00		100	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	5.00	0.0250	5.00		100	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.57*		*8.00*		*94.6*	*70-130*			
Matrix Spike (2402001-MS1)				**Source: E401013-01**					Prepared: 01/08/24 Analyzed: 01/08/24
Benzene	4.94	0.0250	5.00	ND	98.9	54-133			
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	61-133			
Toluene	4.96	0.0250	5.00	ND	99.3	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.3	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.52*		*8.00*		*94.0*	*70-130*			
Matrix Spike Dup (2402001-MSD1)				**Source: E401013-01**					Prepared: 01/08/24 Analyzed: 01/08/24
Benzene	4.97	0.0250	5.00	ND	99.4	54-133	0.514	20	
Ethylbenzene	4.96	0.0250	5.00	ND	99.2	61-133	0.942	20	
Toluene	4.99	0.0250	5.00	ND	99.8	61-130	0.552	20	
o-Xylene	4.97	0.0250	5.00	ND	99.4	63-131	1.08	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	0.905	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	0.963	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.64*		*8.00*		*95.4*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2402001-BLK1)									Prepared: 01/08/24 Analyzed: 01/08/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.93*		*8.00*		*99.1*	*70-130*			
LCS (2402001-BS2)									Prepared: 01/08/24 Analyzed: 01/08/24
Gasoline Range Organics (C6-C10)	54.0	20.0	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.84*		*8.00*		*98.0*	*70-130*			
Matrix Spike (2402001-MS2)				**Source: E401013-01**					Prepared: 01/08/24 Analyzed: 01/08/24
Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	ND	105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.81*		*8.00*		*97.6*	*70-130*			
Matrix Spike Dup (2402001-MSD2)				**Source: E401013-01**					Prepared: 01/08/24 Analyzed: 01/08/24
Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130	4.68	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.85*		*8.00*		*98.1*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2402002-BLK1)									Prepared: 01/08/24 Analyzed: 01/08/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.550*		*0.500*		*110*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.458*		*0.500*		*91.6*	*70-130*			
Surrogate: Toluene-d8	*0.543*		*0.500*		*109*	*70-130*			
LCS (2402002-BS2)									Prepared: 01/08/24 Analyzed: 01/08/24
Gasoline Range Organics (C6-C10)	56.5	20.0	50.0		113	70-130			
Surrogate: Bromofluorobenzene	*0.544*		*0.500*		*109*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.463*		*0.500*		*92.5*	*70-130*			
Surrogate: Toluene-d8	*0.547*		*0.500*		*109*	*70-130*			
Matrix Spike (2402002-MS2)				**Source: E401014-02**					Prepared: 01/08/24 Analyzed: 01/08/24
Gasoline Range Organics (C6-C10)	53.7	20.0	50.0	ND	107	70-130			
Surrogate: Bromofluorobenzene	*0.544*		*0.500*		*109*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.475*		*0.500*		*94.9*	*70-130*			
Surrogate: Toluene-d8	*0.543*		*0.500*		*109*	*70-130*			
Matrix Spike Dup (2402002-MSD2)				**Source: E401014-02**					Prepared: 01/08/24 Analyzed: 01/08/24
Gasoline Range Organics (C6-C10)	54.0	20.0	50.0	ND	108	70-130	0.432	20	
Surrogate: Bromofluorobenzene	*0.546*		*0.500*		*109*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.484*		*0.500*		*96.7*	*70-130*			
Surrogate: Toluene-d8	*0.545*		*0.500*		*109*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2402006-BLK1)									Prepared: 01/08/24 Analyzed: 01/08/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*43.2*		*50.0*		*86.3*	*50-200*			
LCS (2402006-BS1)									Prepared: 01/08/24 Analyzed: 01/08/24
Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: n-Nonane	*46.4*		*50.0*		*92.7*	*50-200*			
LCS Dup (2402006-BSD1)									Prepared: 01/08/24 Analyzed: 01/08/24
Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132	0.0302	20	
Surrogate: n-Nonane	*46.4*		*50.0*		*92.9*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2402007-BLK1)									Prepared: 01/08/24 Analyzed: 01/08/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*48.1*		*50.0*		*96.1*	*50-200*			
LCS (2402007-BS1)									Prepared: 01/08/24 Analyzed: 01/08/24
Diesel Range Organics (C10-C28)	269	25.0	250		108	38-132			
Surrogate: n-Nonane	*47.3*		*50.0*		*94.6*	*50-200*			
LCS Dup (2402007-BSD1)									Prepared: 01/08/24 Analyzed: 01/08/24
Diesel Range Organics (C10-C28)	274	25.0	250		110	38-132	1.84	20	
Surrogate: n-Nonane	*48.1*		*50.0*		*96.2*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2402004-BLK1)									Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	ND	20.0							
LCS (2402004-BS1)									Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	249	20.0	250		99.4	90-110			
Matrix Spike (2402004-MS1)				**Source: E401013-06**					Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	257	20.0	250	ND	103	80-120			
Matrix Spike Dup (2402004-MSD1)				**Source: E401013-06**					Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	254	20.0	250	ND	102	80-120	0.980	20	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 4:13:15PM

Anions by EPA 300.0/9056A

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 (2402005-BLK1)									Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	ND	20.0							
LCS (2402005-BS1)									Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	249	20.0	250		99.8	90-110			
Matrix Spike (2402005-MS1)				**Source: E401014-04**					Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	422	200	250	ND	169	80-120			M6
Matrix Spike Dup (2402005-MSD1)				**Source: E401014-04**					Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	410	200	250	ND	164	80-120	2.69	20	M6

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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	01/09/24 16:13

M6	Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.
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: 7/7/2025 2:18:32 PM

Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client: Mack Energy	
Project: West Mount #1	
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E401014
Job Number 2004600001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	BGDOC TX	Remarks
	01/03/24	S	1	SW 9 - 3'	1	X		
				SW 10 - 2'	2			
				SW 11 - 2'	3			
				SW 12 - 2'	4			
				SW 13 - 2'	5			
				SW 14 - 2'	6			
				SW 15 - 3'	7			
				SW 16 - 2'	8			
				SW 17 - 3'	9			
	01/03/24	S	1	SW 18 - 2'	10	X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Soli's

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Soli's	01/03/24		Michelle Gaye	1-4-24	1245
Michelle Gaye	1-5-24	1600	Andrew Hobbs	1-5-24	1700
Andrew Hobbs	1-5-24	2300	[illegible]	01/07/24	15:30

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Released to Imaging: 7/7/2025 2:18:32 PM

Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client: Mack Energy	
Project: West Mount #1	
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E401014
Job Number 2004600001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	BGDOC TX	Remarks
	01/03/24	S	1	SW 19 - 2'	11	X		
				SW 20 - 2'	12			
				SW 21 - 2'	13			
				SW 22 - 2'	14			
				SW 23 - 2'	15			
				SW 24 - 2'	16			
				SW 25 - 2'	17			
				SW 26 - 2'	18			
				SW 27 - 2'	19			
	01/03/24	S	1	SW 28 - 2'	20	X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	01/03/24		Michelle Gaytan	1-4-24	1245
Michelle Gaytan	1-5-24	1600	Andrew Nesbo	1-5-24	1700
Andrew Nesbo	1-5-24	2300	Irene Zubia	01/07/24	15:30

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Released to Imaging: 7/7/2025 2:18:32 PM

Project Information

Chain of Custody

Client: Mack Energy	
Project: West Mount #1	
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO# E401014 Job Number 2004600001

TAT

1D	2D	3D	Standard
	X		

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX
X				

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	BGDOC NM	BGDOC TX	Remarks
	01/03/24	S	1	SW 29 - 2'	21							X		
	01/03/24	S	1	SW 30 - 2'	22							X		

Analysis and Method

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Soris

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Soris	01/03/24		Michelle Gaye	1-4-24	1245
Michelle Gaye	1-5-24	1600	Andrew Rojo	1-5-24	1700
Andrew Rojo	1-5-24	2300	Brenda Bo	01/07/24	15:30

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Received by OCD: 5/14/2025 8:53:25 AM

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Envirotech Analytical Laboratory

Printed: 1/8/2024 2:17:09PM

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:	01/07/24 15:30	Work Order ID:	E401014
Phone:	(575) 390-6397	Date Logged In:	01/05/24 10:39	Logged In By:	Jordan Montano
Email:	Natalie@energystaffingllc.com	Due Date:	01/08/24 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	No	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Time sampled not provided on COC per client.

Project manager not listed on COC. Natalie Gladden.

Sample #7 physical label sample ID is SW 15-2 and does not match the COC sample ID.

Client Instruction

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

Date

envirotech 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:	West Mount #1
Work Order:	E401016
Job Number:	20046-0001
Received:	1/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/9/24

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: 1/9/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E401016
Date Received: 1/7/2024 3:30:00PM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/7/2024 3:30:00PM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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,

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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	01/09/24 14:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW 31-2'	E401016-01A	Soil	01/04/24	01/07/24	Glass Jar, 2 oz.
SW 32-2'	E401016-02A	Soil	01/04/24	01/07/24	Glass Jar, 2 oz.
SW 33-2'	E401016-03A	Soil	01/04/24	01/07/24	Glass Jar, 2 oz.
SW 34-2'	E401016-04A	Soil	01/04/24	01/07/24	Glass Jar, 2 oz.
SW 35-2'	E401016-05A	Soil	01/04/24	01/07/24	Glass Jar, 2 oz.
SW 36-2'	E401016-06A	Soil	01/04/24	01/07/24	Glass Jar, 2 oz.
SW 37-2'	E401016-07A	Soil	01/04/24	01/07/24	Glass Jar, 2 oz.
SW 38-2'	E401016-08A	Soil	01/04/24	01/07/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:39:30PM

SW 31-2'

E401016-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402003
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.4 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402003
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.7 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402008
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*91.4 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402012
Chloride	**411**	20.0	1	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:39:30PM

SW 32-2'

E401016-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402003
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.3 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402003
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.8 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402008
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402012
Chloride	**125**	20.0	1	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:39:30PM

SW 33-2'

E401016-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402003
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.6 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402003
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.6 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402008
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*97.6 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402012
Chloride	**39.0**	20.0	1	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:39:30PM

SW 34-2'

E401016-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402003
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.1 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402003
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.4 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402008
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*88.1 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402012
Chloride	ND	200	10	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:39:30PM

SW 35-2'

E401016-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402003
Benzene	ND	0.0250	1	01/08/24	01/09/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/09/24	
Toluene	ND	0.0250	1	01/08/24	01/09/24	
o-Xylene	ND	0.0250	1	01/08/24	01/09/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/09/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/09/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.7 %*	*70-130*	*01/08/24*	*01/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402003
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.0 %*	*70-130*	*01/08/24*	*01/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402008
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*91.9 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402012
Chloride	ND	20.0	1	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:39:30PM

SW 36-2'

E401016-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402003
Benzene	ND	0.0250	1	01/08/24	01/09/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/09/24	
Toluene	ND	0.0250	1	01/08/24	01/09/24	
o-Xylene	ND	0.0250	1	01/08/24	01/09/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/09/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/09/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.8 %*	*70-130*	*01/08/24*	*01/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402003
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.4 %*	*70-130*	*01/08/24*	*01/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402008
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*76.5 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402012
Chloride	**27.2**	20.0	1	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:39:30PM

SW 37-2'

E401016-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402003
Benzene	ND	0.0250	1	01/08/24	01/09/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/09/24	
Toluene	ND	0.0250	1	01/08/24	01/09/24	
o-Xylene	ND	0.0250	1	01/08/24	01/09/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/09/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/09/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.0 %*	*70-130*	*01/08/24*	*01/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402003
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.3 %*	*70-130*	*01/08/24*	*01/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402008
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*93.0 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402012
Chloride	ND	200	10	01/08/24	01/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:39:30PM

SW 38-2'

E401016-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2402003
Benzene	ND	0.0250	1	01/08/24	01/09/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/09/24	
Toluene	ND	0.0250	1	01/08/24	01/09/24	
o-Xylene	ND	0.0250	1	01/08/24	01/09/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/09/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/09/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.3 %*	*70-130*	*01/08/24*	*01/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2402003
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.5 %*	*70-130*	*01/08/24*	*01/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402008
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*87.5 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402012
Chloride	ND	200	10	01/08/24	01/08/24	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:39:30PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2402003-BLK1)									Prepared: 01/08/24 Analyzed: 01/08/24
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	*7.65*		*8.00*		*95.6*	*70-130*			
LCS (2402003-BS1)									Prepared: 01/08/24 Analyzed: 01/08/24
Benzene	4.97	0.0250	5.00		99.5	70-130			
Ethylbenzene	4.96	0.0250	5.00		99.2	70-130			
Toluene	5.00	0.0250	5.00		99.9	70-130			
o-Xylene	4.99	0.0250	5.00		99.9	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.78*		*8.00*		*97.2*	*70-130*			
Matrix Spike (2402003-MS1)				**Source: E401016-02**					Prepared: 01/08/24 Analyzed: 01/08/24
Benzene	4.65	0.0250	5.00	ND	93.0	54-133			
Ethylbenzene	4.62	0.0250	5.00	ND	92.5	61-133			
Toluene	4.67	0.0250	5.00	ND	93.5	61-130			
o-Xylene	4.66	0.0250	5.00	ND	93.1	63-131			
p,m-Xylene	9.46	0.0500	10.0	ND	94.6	63-131			
Total Xylenes	14.1	0.0250	15.0	ND	94.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.67*		*8.00*		*95.9*	*70-130*			
Matrix Spike Dup (2402003-MSD1)				**Source: E401016-02**					Prepared: 01/08/24 Analyzed: 01/08/24
Benzene	5.12	0.0250	5.00	ND	102	54-133	9.49	20	
Ethylbenzene	5.09	0.0250	5.00	ND	102	61-133	9.65	20	
Toluene	5.13	0.0250	5.00	ND	103	61-130	9.35	20	
o-Xylene	5.11	0.0250	5.00	ND	102	63-131	9.35	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	9.25	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131	9.28	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.65*		*8.00*		*95.6*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:39:30PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2402003-BLK1)									Prepared: 01/08/24 Analyzed: 01/08/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.57*		*8.00*		*94.7*	*70-130*			
LCS (2402003-BS2)									Prepared: 01/08/24 Analyzed: 01/08/24
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0		98.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.70*		*8.00*		*96.2*	*70-130*			
Matrix Spike (2402003-MS2)				**Source: E401016-02**					Prepared: 01/08/24 Analyzed: 01/08/24
Gasoline Range Organics (C6-C10)	50.5	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.68*		*8.00*		*96.0*	*70-130*			
Matrix Spike Dup (2402003-MSD2)				**Source: E401016-02**					Prepared: 01/08/24 Analyzed: 01/08/24
Gasoline Range Organics (C6-C10)	49.2	20.0	50.0	ND	98.4	70-130	2.59	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.61*		*8.00*		*95.2*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:39:30PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2402008-BLK1)									Prepared: 01/08/24 Analyzed: 01/08/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*47.5*		*50.0*		*94.9*	*50-200*			
LCS (2402008-BS1)									Prepared: 01/08/24 Analyzed: 01/08/24
Diesel Range Organics (C10-C28)	265	25.0	250		106	38-132			
Surrogate: n-Nonane	*48.7*		*50.0*		*97.3*	*50-200*			
Matrix Spike (2402008-MS1)				**Source: E401016-06**					Prepared: 01/08/24 Analyzed: 01/08/24
Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	*51.4*		*50.0*		*103*	*50-200*			
Matrix Spike Dup (2402008-MSD1)				**Source: E401016-06**					Prepared: 01/08/24 Analyzed: 01/08/24
Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132	3.30	20	
Surrogate: n-Nonane	*47.1*		*50.0*		*94.2*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:39:30PM

Anions by EPA 300.0/9056A

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 (2402012-BLK1)									Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	ND	20.0							
LCS (2402012-BS1)									Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	247	20.0	250		98.8	90-110			
Matrix Spike (2402012-MS1)				**Source: E401016-01**					Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	663	20.0	250	411	101	80-120			
Matrix Spike Dup (2402012-MSD1)				**Source: E401016-01**					Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	658	20.0	250	411	99.2	80-120	0.679	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	01/09/24 14:39

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Page 1 of 1

Client:	MACK Energy
Project:	West Mont #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO# E 401016
Job Number 2004160001

TAT: 1D | 2D (X) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (X) | CO | UT | AZ | TX

Analysis and Method

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	BGDOC NM	BGDOC TX	Remarks
	01/04/24	S	1	SW 31 - 2'	1							X		
				SW 32 - 2'	2									
				SW 33 - 2'	3									
				SW 34 - 2'	4									
				SW 35 - 2'	5									
				SW 36 - 2'	6									
				SW 37 - 2'	7									
	01/04/24	S	1	SW 38 - 2'	8							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Soris

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Soris	01/04/24		Michelle Garcia	1-5-24	1340
Michelle Garcia	1-5-24	1600	Andrew Hess	1-5-24	1700
Andrew Hess	1.5.24	2300	[illegible]	01/07/24	15:30

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4.0

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Envirotech Analytical Laboratory

Printed: 1/8/2024 3:31:35PM

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:	01/07/24 15:30	Work Order ID:	E401016
Phone:	(575) 390-6397	Date Logged In:	01/05/24 15:06	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	01/09/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Project manager and time sampled are not documented on the COC by client.

Client Instruction

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

Date

envirotech Inc.

Received by OCD: 5/14/2025 8:53:25 AM

MACK ENERGY

WEST MOUNT SPILL 1
IMPACT MAP

Legend

- Mack Energy. WestMount#1 \u2026frac line spill L1690 SQ. FT
- SQ. FT. 22,187
- WEST MOUNT 1 RELEASE

WEST MOUNT 1 RELEASE

Google Earth

Released to Imaging: 7/7/2025 2:18:32 PM

Image © 2024 Airbus

N

100 ft

Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Natalie Gladden

From: OCDOnline@state.nm.us
Sent: Thursday, February 1, 2024 9:08 AM
To: Natalie Gladden
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 310332

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#) nAPP2325464608.

The sampling event is expected to take place:

When: 02/05/2023 @ 07:00
Where: A-35-15S-28E 0 FNL 0 FEL (32.978491,-104.094969)

Additional Information: Contact Natalie Gladden 5753906397 or natalie@energystaffingllc.com

Additional Instructions: GPS 32.978491 -104.094969

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

Page 582 of 1080

Company Name: MACK **Location Name:** WEST MOUNT #1 **Release Date:**

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil
COMP1	2	160	L	ND	ND	ND	ND	ND	ND	
COMP2	2	160	L	ND	ND	ND	ND	ND	ND	
COMP3	2	160	L	ND	ND	ND	ND	ND	ND	
COMP4	2	160	L	ND	ND	ND	ND	ND	ND	
COMP5	2	160	L	ND	ND	ND	ND	ND	ND	
COMP6	2	160	L	ND	ND	ND	ND	ND	ND	
COMP7	2	160	L	ND	ND	ND	ND	ND	ND	
COMP8	2	160	L	ND	ND	ND	ND	ND	ND	
COMP9	2	160	L	ND	ND	ND	ND	ND	ND	
COMP10	2	160	L	ND	ND	ND	ND	ND	ND	
COMP11	2	160	L	ND	ND	ND	ND	ND	ND	
COMP12	2	160	L	ND	ND	ND	ND	ND	ND	
COMP13	2	160	L	ND	ND	ND	ND	ND	ND	
COMP14	2	160	L	ND	ND	ND	ND	ND	ND	
COMP15	2	160	L	ND	ND	ND	ND	ND	ND	
COMP16	2	160	L	ND	ND	ND	ND	ND	ND	

COMP17	2	160	L	ND	ND	ND	ND	ND	ND	
COMP18	2	160	L	ND	ND	ND	ND	ND	ND	
COMP19	2	160	L	ND	ND	ND	ND	ND	ND	
COMP20	2	160	L	ND	ND	ND	ND	ND	ND	
COMP21	4	160	L	ND	ND	ND	ND	ND	ND	
COMP22	4	160	L	ND	ND	ND	ND	ND	ND	
COMP23	6	160	L	ND	ND	ND	ND	ND	ND	
COMP24	6	160	L	ND	ND	ND	ND	ND	ND	
COMP25	8	160	L	ND	ND	ND	ND	ND	ND	
COMP26	8	160	L	ND	ND	ND	ND	ND	ND	
COMP27	8	160	L	ND	ND	ND	ND	ND	ND	
COMP28	8	160	L	ND	ND	ND	ND	ND	ND	
COMP29	6	160	L	ND	ND	ND	ND	ND	ND	
COMP30	4	160	L	ND	ND	ND	ND	ND	ND	
COMP31	4	320	L	ND	ND	ND	ND	ND	110	
COMP32	4	240	L	ND	ND	ND	ND	ND	ND	
COMP33	4	400	L	ND	ND	ND	ND	ND	219	

COMP34	4	320	L	ND	ND	ND	ND	ND	ND	
COMP35	4	320	L	ND	ND	ND	ND	ND	ND	
COMP36	4	480	L	ND	ND	ND	ND	ND	198	
COMP37	4	400	L	ND	ND	ND	ND	ND	102	
COMP38	4	320	L	ND	ND	ND	ND	ND	ND	
COMP39	4	400	L	ND	ND	ND	ND	ND	ND	
COMP40	4	320	L	ND	ND	ND	ND	ND	ND	
COMP41	4	320	L	ND	ND	ND	ND	ND	ND	
COMP42	4	480	L	ND	ND	ND	ND	ND	ND	
COMP43	4	320	L	ND	ND	ND	ND	ND	ND	
COMP44	4	240	L	ND	ND	ND	ND	ND	ND	
COMP45	4	320	L	ND	ND	ND	ND	ND	ND	
COMP46	4	80	L	ND	ND	ND	ND	ND	ND	
COMP47	4	80	L	ND	ND	ND	ND	ND	ND	
COMP48	4	80	L	ND	ND	ND	ND	ND	ND	
COMP49	4	80	L	ND	ND	ND	ND	ND	ND	
COMP50	4	80	L	ND	ND	ND	ND	ND	146	

COMP51	4	80	L	ND	ND	ND	ND	ND	160	
COMP52	4	80	L	ND	ND	ND	ND	ND	151	
COMP53	4	80	L	ND	ND	ND	ND	ND	147	
COMP54	4	80	L	ND	ND	ND	ND	ND	ND	
COMP55	4	80	L	ND	ND	ND	ND	ND	ND	
COMP56	6	80	L	ND	ND	ND	ND	ND	52.1	
COMP57	4	80	L	ND	ND	ND	ND	ND	ND	
COMP58	4	80	L	ND	ND	ND	ND	ND	ND	
COMP59	4	80	L	ND	ND	ND	ND	ND	ND	
COMP60	4	80	L	ND	ND	ND	ND	ND	ND	
COMP61	4	80	L	ND	ND	ND	ND	ND	ND	
COMP62	4	80	L	ND	ND	ND	ND	ND	148	
COMP63	4	80	L	ND	ND	ND	ND	ND	145	
COMP64	4	80	L	ND	ND	ND	ND	ND	144	
COMP65	4	80	L	ND	ND	ND	ND	ND	140	
COMP66	4	80	L	ND	ND	ND	ND	ND	ND	
COMP67	4	80	L	ND	ND	ND	ND	ND	ND	

COMP68	4	80	L	ND	ND	ND	ND	ND	ND	
COMP69	4	80	L	ND	ND	ND	ND	ND	142	
COMP70	6	80	L	ND	ND	ND	ND	ND	58.3	
COMP71	6	80	L	ND	ND	ND	ND	ND	24.7	
COMP72	6	80	L	ND	ND	ND	ND	ND	29.9	
COMP73	4	80	L	ND	ND	ND	ND	ND	ND	
COMP74	4	80	L	ND	ND	ND	ND	ND	ND	
COMP75	4	80	L	ND	ND	ND	ND	ND	ND	
COMP76	4	80	L	ND	ND	ND	ND	ND	ND	
COMP77	4	80	L	ND	ND	ND	ND	ND	ND	
COMP78	4	80	L	ND	ND	ND	ND	ND	ND	
COMP79	4	80	L	ND	ND	ND	ND	ND	ND	
COMP80	4	80	L	ND	ND	ND	ND	ND	ND	
COMP81	8	80	L	ND	ND	ND	ND	ND	132	
COMP82	8	80	L	ND	ND	ND	ND	ND	123	
COMP83	8	80	L	ND	ND	ND	ND	ND	ND	
COMP84	8	80	L	ND	ND	ND	ND	ND	ND	

COMP85	8	80	L	ND	ND	ND	ND	ND	ND	
COMP86	8	80	L	ND	ND	ND	ND	ND	103	
COMP87	8	80	L	ND	ND	ND	ND	ND	41.9	
COMP88	8	80	L	ND	ND	ND	ND	ND	ND	
COMP89	8	80	L	ND	ND	ND	ND	ND	ND	
COMP90	8	80	L	ND	ND	ND	ND	ND	ND	
COMP91	8	80	L	ND	ND	ND	ND	ND	ND	
COMP92	8	80	L	ND	ND	ND	ND	ND	ND	
COMP93	8	80	H	ND	ND	66.5	ND	66.5	ND	
COMP93A	10	80	L	ND	ND	ND	ND	ND	50.4	
COMP94	8	80	H	ND	ND	68.9	ND	68.9	ND	
COMP94A	10	80	L	ND	ND	ND	ND	ND	50.5	
COMP95	8	80	L	ND	ND	ND	ND	ND	109	
COMP96	8	80	L	ND	ND	ND	ND	ND	106	
COMP97	8	160	L	ND	ND	ND	ND	ND	129	
COMP98	8	80	L	ND	ND	ND	ND	ND	ND	
COMP99	8	80	L	ND	ND	ND	ND	ND	ND	
COMP100	8	80	L	ND	ND	ND	ND	ND	104	

COMP101	8	80	H	ND	ND	67.1	ND	67.1	ND	
COMP101A	10	80	L	ND	ND	ND	ND	ND	52.5	
COMP102	8	80	L	ND	ND	ND	ND	ND	ND	
COMP103	8	80	L	ND	ND	ND	ND	ND	ND	
COMP104	8	80	L	ND	ND	ND	ND	ND	ND	
COMP105	8	80	L	ND	ND	ND	ND	ND	ND	
COMP106	8	80	L	ND	ND	ND	ND	ND	ND	
COMP107	8	80	L	ND	ND	ND	ND	ND	ND	
COMP108	8	80	L	ND	ND	ND	ND	ND	ND	
COMP109	8	80	L	ND	ND	ND	ND	ND	ND	
COMP110	8	80	L	ND	ND	ND	ND	ND	ND	
COMP111	8	80	L	ND	ND	ND	ND	ND	ND	
COMP112	8	80	L	ND	ND	ND	ND	ND	ND	
COMP113	8	80	L	ND	ND	ND	ND	ND	ND	
COMP114	8	80	L	ND	ND	ND	ND	ND	ND	
COMP115	8	80	L	ND	ND	ND	ND	ND	ND	
COMP116	8	80	L	ND	ND	ND	ND	ND	ND	

COMP117	8	80	L	ND	ND	ND	ND	ND	ND	
COMP118	8	80	L	ND	ND	ND	ND	ND	ND	
COMP119	8	80	L	ND	ND	ND	ND	ND	ND	
COMP120	2	320	L	ND	ND	ND	ND	ND	479	
COMP121	2	320	L	ND	ND	ND	ND	ND	222	
COMP122	2	240	L	ND	ND	ND	ND	ND	ND	
COMP123	2	320	L	ND	ND	ND	ND	ND	ND	
COMP124	2	320	L	ND	ND	ND	ND	ND	ND	
COMP125	2	320	L	ND	ND	ND	ND	ND	251	
COMP126	2	320	L	ND	ND	ND	ND	ND	491	
SW COMP 1	2	80	L	ND	ND	ND	ND	ND	ND	
SW COMP 2	2	80	L	ND	ND	ND	ND	ND	ND	
SW COMP 3	2	80	L	ND	ND	ND	ND	ND	ND	
SW COMP 4	2	80	L	ND	ND	ND	ND	ND	ND	
SW COMP 5	2	80	L	ND	ND	ND	ND	ND	ND	
SW COMP 6	2	80	L	ND	ND	ND	ND	ND	ND	
SW COMP 7	2	80	L	ND	ND	ND	ND	ND	ND	

SW COMP 8	2	80	L	ND	ND	ND	ND	ND	ND	
SW COMP 9	2	80	L	ND	ND	ND	ND	ND	ND	
SW COMP 10	2	80	L	ND	ND	ND	ND	ND	ND	
SW COMP 11	2	80	L	ND	ND	ND	ND	ND	ND	
SW COMP 12	2	80	L	ND	ND	ND	ND	ND	ND	
SW COMP 13	2	80	L	ND	ND	ND	ND	ND	ND	
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SW COMP 120	4	80	L	ND	ND	ND	ND	ND	98.9	

CLIENTS MACK ENERGY
LOCATION WEST MOUNT SPILL #1
COMPOSITE GPS

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Received by OCD: 5/14/2025 8:53:25 AM

MACK ENERGY

WEST MOUNT SPILL 1
COMPOSITE MAP

Legend

- HORIZONTAL COMPOSITE SAMPLE PTS
- VERTICAL COMPOSITE SAMPLE PTS

Released to Imaging: 7/7/2025 2:18:32 PM

Google Earth

Image © 2024 Airbus

100 ft

N

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 #1
Work Order:	E403103
Job Number:	20046-0001
Received:	3/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/13/24

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: 3/13/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E403103
Date Received: 3/12/2024 6:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/12/2024 6:00:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	03/13/24 16:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 1 -2'	E403103-01A	Soil	03/08/24	03/12/24	Glass Jar, 2 oz.
SP Comp 2 -2'	E403103-02A	Soil	03/08/24	03/12/24	Glass Jar, 2 oz.
SP Comp 3 -2'	E403103-03A	Soil	03/08/24	03/12/24	Glass Jar, 2 oz.
SP Comp 4 -2'	E403103-04A	Soil	03/08/24	03/12/24	Glass Jar, 2 oz.
SP Comp 5 -2'	E403103-05A	Soil	03/08/24	03/12/24	Glass Jar, 2 oz.
SP Comp 6 -2'	E403103-06A	Soil	03/08/24	03/12/24	Glass Jar, 2 oz.
SP Comp 7 -2'	E403103-07A	Soil	03/08/24	03/12/24	Glass Jar, 2 oz.
SP Comp 8 -2'	E403103-08A	Soil	03/08/24	03/12/24	Glass Jar, 2 oz.
SP Comp 9 -2'	E403103-09A	Soil	03/08/24	03/12/24	Glass Jar, 2 oz.
SP Comp 10 -2'	E403103-10A	Soil	03/08/24	03/12/24	Glass Jar, 2 oz.
SP Comp 11 -2'	E403103-11A	Soil	03/08/24	03/12/24	Glass Jar, 2 oz.
SP Comp 12 -2'	E403103-12A	Soil	03/08/24	03/12/24	Glass Jar, 2 oz.
SP Comp 13 -2'	E403103-13A	Soil	03/08/24	03/12/24	Glass Jar, 2 oz.
SP Comp 14 -2'	E403103-14A	Soil	03/08/24	03/12/24	Glass Jar, 2 oz.
SP Comp 15 -2'	E403103-15A	Soil	03/08/24	03/12/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

SP Comp 1 -2'

E403103-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Benzene	ND	0.0250	1	03/12/24	03/12/24	
Ethylbenzene	ND	0.0250	1	03/12/24	03/12/24	
Toluene	ND	0.0250	1	03/12/24	03/12/24	
o-Xylene	ND	0.0250	1	03/12/24	03/12/24	
p,m-Xylene	ND	0.0500	1	03/12/24	03/12/24	
Total Xylenes	ND	0.0250	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.7 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.7 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/12/24	03/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/12/24	03/12/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*03/12/24*	*03/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2411051
Chloride	ND	100	5	03/12/24	03/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

SP Comp 2 -2'

E403103-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Benzene	ND	0.0250	1	03/12/24	03/12/24	
Ethylbenzene	ND	0.0250	1	03/12/24	03/12/24	
Toluene	ND	0.0250	1	03/12/24	03/12/24	
o-Xylene	ND	0.0250	1	03/12/24	03/12/24	
p,m-Xylene	ND	0.0500	1	03/12/24	03/12/24	
Total Xylenes	ND	0.0250	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.2 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.2 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/12/24	03/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/12/24	03/12/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*03/12/24*	*03/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2411051
Chloride	ND	100	5	03/12/24	03/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

SP Comp 3 -2'

E403103-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Benzene	ND	0.0250	1	03/12/24	03/12/24	
Ethylbenzene	ND	0.0250	1	03/12/24	03/12/24	
Toluene	ND	0.0250	1	03/12/24	03/12/24	
o-Xylene	ND	0.0250	1	03/12/24	03/12/24	
p,m-Xylene	ND	0.0500	1	03/12/24	03/12/24	
Total Xylenes	ND	0.0250	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.7 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.7 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/12/24	03/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/12/24	03/12/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*03/12/24*	*03/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2411051
Chloride	ND	100	5	03/12/24	03/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

SP Comp 4 -2'

E403103-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Benzene	ND	0.0250	1	03/12/24	03/12/24	
Ethylbenzene	ND	0.0250	1	03/12/24	03/12/24	
Toluene	ND	0.0250	1	03/12/24	03/12/24	
o-Xylene	ND	0.0250	1	03/12/24	03/12/24	
p,m-Xylene	ND	0.0500	1	03/12/24	03/12/24	
Total Xylenes	ND	0.0250	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/12/24	03/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/12/24	03/12/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*03/12/24*	*03/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2411051
Chloride	ND	100	5	03/12/24	03/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

SP Comp 5 -2'

E403103-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Benzene	ND	0.0250	1	03/12/24	03/12/24	
Ethylbenzene	ND	0.0250	1	03/12/24	03/12/24	
Toluene	ND	0.0250	1	03/12/24	03/12/24	
o-Xylene	ND	0.0250	1	03/12/24	03/12/24	
p,m-Xylene	ND	0.0500	1	03/12/24	03/12/24	
Total Xylenes	ND	0.0250	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.9 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.9 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/12/24	03/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/12/24	03/13/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*03/12/24*	*03/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2411051
Chloride	ND	100	5	03/12/24	03/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

SP Comp 6 -2'

E403103-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Benzene	ND	0.0250	1	03/12/24	03/12/24	
Ethylbenzene	ND	0.0250	1	03/12/24	03/12/24	
Toluene	ND	0.0250	1	03/12/24	03/12/24	
o-Xylene	ND	0.0250	1	03/12/24	03/12/24	
p,m-Xylene	ND	0.0500	1	03/12/24	03/12/24	
Total Xylenes	ND	0.0250	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.7 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.7 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/12/24	03/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/12/24	03/13/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*03/12/24*	*03/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2411051
Chloride	ND	100	5	03/12/24	03/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

SP Comp 7 -2'

E403103-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Benzene	ND	0.0250	1	03/12/24	03/12/24	
Ethylbenzene	ND	0.0250	1	03/12/24	03/12/24	
Toluene	ND	0.0250	1	03/12/24	03/12/24	
o-Xylene	ND	0.0250	1	03/12/24	03/12/24	
p,m-Xylene	ND	0.0500	1	03/12/24	03/12/24	
Total Xylenes	ND	0.0250	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.1 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.1 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/12/24	03/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/12/24	03/13/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*03/12/24*	*03/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2411051
Chloride	ND	100	5	03/12/24	03/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

SP Comp 8 -2'

E403103-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Benzene	ND	0.0250	1	03/12/24	03/12/24	
Ethylbenzene	ND	0.0250	1	03/12/24	03/12/24	
Toluene	ND	0.0250	1	03/12/24	03/12/24	
o-Xylene	ND	0.0250	1	03/12/24	03/12/24	
p,m-Xylene	ND	0.0500	1	03/12/24	03/12/24	
Total Xylenes	ND	0.0250	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/12/24	03/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/12/24	03/13/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*03/12/24*	*03/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2411051
Chloride	ND	100	5	03/12/24	03/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

SP Comp 9 -2'

E403103-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Benzene	ND	0.0250	1	03/12/24	03/12/24	
Ethylbenzene	ND	0.0250	1	03/12/24	03/12/24	
Toluene	ND	0.0250	1	03/12/24	03/12/24	
o-Xylene	ND	0.0250	1	03/12/24	03/12/24	
p,m-Xylene	ND	0.0500	1	03/12/24	03/12/24	
Total Xylenes	ND	0.0250	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/12/24	03/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/12/24	03/13/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*03/12/24*	*03/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2411051
Chloride	ND	100	5	03/12/24	03/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

SP Comp 10 -2'

E403103-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Benzene	ND	0.0250	1	03/12/24	03/12/24	
Ethylbenzene	ND	0.0250	1	03/12/24	03/12/24	
Toluene	ND	0.0250	1	03/12/24	03/12/24	
o-Xylene	ND	0.0250	1	03/12/24	03/12/24	
p,m-Xylene	ND	0.0500	1	03/12/24	03/12/24	
Total Xylenes	ND	0.0250	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.3 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.3 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/12/24	03/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/12/24	03/13/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*03/12/24*	*03/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2411051
Chloride	ND	100	5	03/12/24	03/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

SP Comp 11 -2'

E403103-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Benzene	ND	0.0250	1	03/12/24	03/12/24	
Ethylbenzene	ND	0.0250	1	03/12/24	03/12/24	
Toluene	ND	0.0250	1	03/12/24	03/12/24	
o-Xylene	ND	0.0250	1	03/12/24	03/12/24	
p,m-Xylene	ND	0.0500	1	03/12/24	03/12/24	
Total Xylenes	ND	0.0250	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.0 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.0 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/12/24	03/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/12/24	03/13/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*03/12/24*	*03/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2411051
Chloride	ND	100	5	03/12/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

SP Comp 12 -2'

E403103-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Benzene	ND	0.0250	1	03/12/24	03/12/24	
Ethylbenzene	ND	0.0250	1	03/12/24	03/12/24	
Toluene	ND	0.0250	1	03/12/24	03/12/24	
o-Xylene	ND	0.0250	1	03/12/24	03/12/24	
p,m-Xylene	ND	0.0500	1	03/12/24	03/12/24	
Total Xylenes	ND	0.0250	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.0 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/12/24	03/12/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.0 %*	*70-130*	*03/12/24*	*03/12/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/12/24	03/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/12/24	03/13/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*03/12/24*	*03/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2411051
Chloride	ND	100	5	03/12/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

SP Comp 13 -2'

E403103-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Benzene	ND	0.0250	1	03/12/24	03/13/24	
Ethylbenzene	ND	0.0250	1	03/12/24	03/13/24	
Toluene	ND	0.0250	1	03/12/24	03/13/24	
o-Xylene	ND	0.0250	1	03/12/24	03/13/24	
p,m-Xylene	ND	0.0500	1	03/12/24	03/13/24	
Total Xylenes	ND	0.0250	1	03/12/24	03/13/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*03/12/24*	*03/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.2 %*	*70-130*	*03/12/24*	*03/13/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/12/24	03/13/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*03/12/24*	*03/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.2 %*	*70-130*	*03/12/24*	*03/13/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/12/24	03/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/12/24	03/13/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*03/12/24*	*03/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2411051
Chloride	ND	100	5	03/12/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

SP Comp 14 -2'

E403103-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Benzene	ND	0.0250	1	03/12/24	03/13/24	
Ethylbenzene	ND	0.0250	1	03/12/24	03/13/24	
Toluene	ND	0.0250	1	03/12/24	03/13/24	
o-Xylene	ND	0.0250	1	03/12/24	03/13/24	
p,m-Xylene	ND	0.0500	1	03/12/24	03/13/24	
Total Xylenes	ND	0.0250	1	03/12/24	03/13/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*03/12/24*	*03/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.3 %*	*70-130*	*03/12/24*	*03/13/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/12/24	03/13/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*03/12/24*	*03/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.3 %*	*70-130*	*03/12/24*	*03/13/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/12/24*	*03/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/12/24	03/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/12/24	03/13/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*03/12/24*	*03/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2411051
Chloride	ND	100	5	03/12/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

SP Comp 15 -2'

E403103-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Benzene	ND	0.0250	1	03/12/24	03/13/24	
Ethylbenzene	ND	0.0250	1	03/12/24	03/13/24	
Toluene	ND	0.0250	1	03/12/24	03/13/24	
o-Xylene	ND	0.0250	1	03/12/24	03/13/24	
p,m-Xylene	ND	0.0500	1	03/12/24	03/13/24	
Total Xylenes	ND	0.0250	1	03/12/24	03/13/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*03/12/24*	*03/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*03/12/24*	*03/13/24*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*03/12/24*	*03/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2411038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/12/24	03/13/24	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*03/12/24*	*03/13/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*03/12/24*	*03/13/24*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*03/12/24*	*03/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411041
Diesel Range Organics (C10-C28)	ND	25.0	1	03/12/24	03/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/12/24	03/13/24	
Surrogate: n-Nonane		*117 %*	*50-200*	*03/12/24*	*03/13/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2411051
Chloride	ND	100	5	03/12/24	03/13/24	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2411038-BLK1)									Prepared: 03/12/24 Analyzed: 03/12/24
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: Bromofluorobenzene	*0.518*		*0.500*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.495*		*0.500*		*99.0*	*70-130*			
Surrogate: Toluene-d8	*0.517*		*0.500*		*103*	*70-130*			
LCS (2411038-BS1)									Prepared: 03/12/24 Analyzed: 03/12/24
Benzene	2.53	0.0250	2.50		101	70-130			
Ethylbenzene	2.52	0.0250	2.50		101	70-130			
Toluene	2.45	0.0250	2.50		98.1	70-130			
o-Xylene	2.36	0.0250	2.50		94.3	70-130			
p,m-Xylene	4.77	0.0500	5.00		95.4	70-130			
Total Xylenes	7.13	0.0250	7.50		95.0	70-130			
Surrogate: Bromofluorobenzene	*0.485*		*0.500*		*97.0*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.476*		*0.500*		*95.1*	*70-130*			
Surrogate: Toluene-d8	*0.513*		*0.500*		*103*	*70-130*			
Matrix Spike (2411038-MS1)				**Source: E403103-04**					Prepared: 03/12/24 Analyzed: 03/12/24
Benzene	2.52	0.0250	2.50	ND	101	48-131			
Ethylbenzene	2.55	0.0250	2.50	ND	102	45-135			
Toluene	2.49	0.0250	2.50	ND	99.4	48-130			
o-Xylene	2.47	0.0250	2.50	ND	98.8	43-135			
p,m-Xylene	5.00	0.0500	5.00	ND	99.9	43-135			
Total Xylenes	7.47	0.0250	7.50	ND	99.6	43-135			
Surrogate: Bromofluorobenzene	*0.499*		*0.500*		*99.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.475*		*0.500*		*94.9*	*70-130*			
Surrogate: Toluene-d8	*0.519*		*0.500*		*104*	*70-130*			
Matrix Spike Dup (2411038-MSD1)				**Source: E403103-04**					Prepared: 03/12/24 Analyzed: 03/12/24
Benzene	2.43	0.0250	2.50	ND	97.0	48-131	3.80	23	
Ethylbenzene	2.43	0.0250	2.50	ND	97.2	45-135	4.78	27	
Toluene	2.36	0.0250	2.50	ND	94.2	48-130	5.39	24	
o-Xylene	2.39	0.0250	2.50	ND	95.4	43-135	3.52	27	
p,m-Xylene	4.81	0.0500	5.00	ND	96.3	43-135	3.72	27	
Total Xylenes	7.20	0.0250	7.50	ND	96.0	43-135	3.65	27	
Surrogate: Bromofluorobenzene	*0.503*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.468*		*0.500*		*93.6*	*70-130*			
Surrogate: Toluene-d8	*0.502*		*0.500*		*100*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2411038-BLK1)									Prepared: 03/12/24 Analyzed: 03/12/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.518*		*0.500*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.495*		*0.500*		*99.0*	*70-130*			
Surrogate: Toluene-d8	*0.517*		*0.500*		*103*	*70-130*			
LCS (2411038-BS2)									Prepared: 03/12/24 Analyzed: 03/12/24
Gasoline Range Organics (C6-C10)	59.0	20.0	50.0		118	70-130			
Surrogate: Bromofluorobenzene	*0.524*		*0.500*		*105*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.468*		*0.500*		*93.5*	*70-130*			
Surrogate: Toluene-d8	*0.517*		*0.500*		*103*	*70-130*			
Matrix Spike (2411038-MS2)				**Source: E403103-04**					Prepared: 03/12/24 Analyzed: 03/12/24
Gasoline Range Organics (C6-C10)	59.1	20.0	50.0	ND	118	70-130			
Surrogate: Bromofluorobenzene	*0.538*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.490*		*0.500*		*97.9*	*70-130*			
Surrogate: Toluene-d8	*0.503*		*0.500*		*101*	*70-130*			
Matrix Spike Dup (2411038-MSD2)				**Source: E403103-04**					Prepared: 03/12/24 Analyzed: 03/12/24
Gasoline Range Organics (C6-C10)	57.8	20.0	50.0	ND	116	70-130	2.23	20	
Surrogate: Bromofluorobenzene	*0.535*		*0.500*		*107*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.493*		*0.500*		*98.5*	*70-130*			
Surrogate: Toluene-d8	*0.514*		*0.500*		*103*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2411041-BLK1)									Prepared: 03/12/24 Analyzed: 03/12/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*53.1*		*50.0*		*106*	*50-200*			
LCS (2411041-BS1)									Prepared: 03/12/24 Analyzed: 03/12/24
Diesel Range Organics (C10-C28)	293	25.0	250		117	38-132			
Surrogate: n-Nonane	*52.9*		*50.0*		*106*	*50-200*			
LCS Dup (2411041-BSD1)									Prepared: 03/12/24 Analyzed: 03/12/24
Diesel Range Organics (C10-C28)	291	25.0	250		116	38-132	0.706	20	
Surrogate: n-Nonane	*52.6*		*50.0*		*105*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/13/2024 4:39:50PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2411051-BLK1)									Prepared: 03/12/24 Analyzed: 03/12/24
Chloride	ND	20.0							
LCS (2411051-BS1)									Prepared: 03/12/24 Analyzed: 03/13/24
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2411051-MS1)				**Source: E403103-02**					Prepared: 03/12/24 Analyzed: 03/12/24
Chloride	252	100	250	ND	101	80-120			
Matrix Spike Dup (2411051-MSD1)				**Source: E403103-02**					Prepared: 03/12/24 Analyzed: 03/12/24
Chloride	255	100	250	ND	102	80-120	0.994	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	03/13/24 16:39

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 2

Client:	MOCK Energy
Project:	West Mont #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E403103 | Job Number 20046-0001

TAT: 1D | 2D | 3D | Standard — 2D: X

EPA Program: CWA | SDWA | RCRA

State: NM: X | CO | UT | AZ | TX

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	BGDOC NM	BGDOC TX	Remarks
	03/08	S	1	SP Comp 1 - 2'	1							X		
				SP Comp 2 - 2'	2									
				SP Comp 3 - 2'	3									
				SP Comp 4 - 2'	4									
				SP Comp 5 - 2'	5									
				SP Comp 6 - 2'	6									
				SP Comp 7 - 2'	7									
				SP Comp 8 - 2'	8									
				SP Comp 9 - 2'	9									
	03/08	S	1	SP Comp 10 - 2'	10							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	03/08/24	1400		3.11.24	1400
	3.11.24	1545	Andrew Hobbs	3.11.24	1545
Andrew Hobbs	3.11.24	2300	Hughyn R Hall	3-12-24	0600

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 2 of 2

Client: Mack Energy	Bill To
Project: West Mount #9	Attention: ENERGY STAFFING SERVICES
Project Manager:	Address: 2724 NW COUNTY RD
Address:	City, State, Zip HOBBS, NM 88240
City, State, Zip	Phone: 575-393-9048
Phone:	Email: NATALIE@ENERGYSTAFFINGLLC.COM
Email:	BRITTNEY@ENERGYSTAFFINGLLC.COM
Report due by:	

Lab Use Only: Lab WO# E403103 | Job Number 20046-0001

TAT: 1D | 2D (X) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (X) | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	03/08	S	1	SP Comp 11 - 2'	11	X	
	"	"	"	SP Comp 12 - 2'	12	"	
	"	"	"	SP Comp 13 - 2'	13	"	
	"	"	"	SP Comp 14 - 2'	14	"	
	03/08	S	1	SP Comp 15 - 2'	15	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	03/08/24	1400	C Parker	3.11.24	1400
	3.11.24	1545	Andrew Mesa	3.11.24	1545
Andrew Mesa	3.11.24	2300		3-12-24	0600

Lab Use Only: Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Envirotech Analytical Laboratory

Printed: 3/12/2024 9:43:54AM

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:	03/12/24 06:00	Work Order ID:	E403103
Phone:	(575) 390-6397	Date Logged In:	03/11/24 17:34	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	03/13/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Project manager and Time sampled not documented on COC by client

Client Instruction

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

Date

envirotech 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:	West Mount #1
Work Order:	E403117
Job Number:	20046-0001
Received:	3/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/14/24

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: 3/14/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E403117
Date Received: 3/13/2024 5:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/13/2024 5:00:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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
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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	03/14/24 15:53

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP COMP 16 -2'	E403117-01A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SP COMP 17 -2'	E403117-02A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SP COMP 18 -2'	E403117-03A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SP COMP 19 -2'	E403117-04A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SP COMP 20 -2'	E403117-05A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SP COMP 21 -4'	E403117-06A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SP COMP 22 -4'	E403117-07A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SP COMP 23 -6'	E403117-08A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SP COMP 24 -6'	E403117-09A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SP COMP 25 -8'	E403117-10A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SP COMP 26 -8'	E403117-11A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SP COMP 27 -8'	E403117-12A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SP COMP 28 -8'	E403117-13A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SP COMP 29 -6'	E403117-14A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.
SP COMP 30 -4'	E403117-15A	Soil	03/11/24	03/13/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

SP COMP 16 -2'

E403117-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Benzene	ND	0.0250	1	03/13/24	03/13/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/13/24	
Toluene	ND	0.0250	1	03/13/24	03/13/24	
o-Xylene	ND	0.0250	1	03/13/24	03/13/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/13/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*03/13/24*	*03/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.0 %*	*70-130*	*03/13/24*	*03/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*03/13/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411084
Chloride	ND	200	10	03/13/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

SP COMP 17 -2'

E403117-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Benzene	ND	0.0250	1	03/13/24	03/13/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/13/24	
Toluene	ND	0.0250	1	03/13/24	03/13/24	
o-Xylene	ND	0.0250	1	03/13/24	03/13/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/13/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*03/13/24*	*03/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.9 %*	*70-130*	*03/13/24*	*03/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*03/13/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411084
Chloride	ND	200	10	03/13/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

SP COMP 18 -2'

E403117-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Benzene	ND	0.0250	1	03/13/24	03/13/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/13/24	
Toluene	ND	0.0250	1	03/13/24	03/13/24	
o-Xylene	ND	0.0250	1	03/13/24	03/13/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/13/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.8 %*	*70-130*	*03/13/24*	*03/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.2 %*	*70-130*	*03/13/24*	*03/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*03/13/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411084
Chloride	ND	200	10	03/13/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

SP COMP 19 -2'

E403117-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Benzene	ND	0.0250	1	03/13/24	03/13/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/13/24	
Toluene	ND	0.0250	1	03/13/24	03/13/24	
o-Xylene	ND	0.0250	1	03/13/24	03/13/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/13/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*03/13/24*	*03/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.9 %*	*70-130*	*03/13/24*	*03/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*03/13/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411084
Chloride	ND	100	5	03/13/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

SP COMP 20 -2'

E403117-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Benzene	ND	0.0250	1	03/13/24	03/13/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/13/24	
Toluene	ND	0.0250	1	03/13/24	03/13/24	
o-Xylene	ND	0.0250	1	03/13/24	03/13/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/13/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/13/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*03/13/24*	*03/13/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.2 %*	*70-130*	*03/13/24*	*03/13/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*03/13/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411084
Chloride	ND	200	10	03/13/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

SP COMP 21 -4'

E403117-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Benzene	ND	0.0250	1	03/13/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/14/24	
Toluene	ND	0.0250	1	03/13/24	03/14/24	
o-Xylene	ND	0.0250	1	03/13/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.4 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.7 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*03/13/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411084
Chloride	ND	200	10	03/13/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

SP COMP 22 -4'

E403117-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Benzene	ND	0.0250	1	03/13/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/14/24	
Toluene	ND	0.0250	1	03/13/24	03/14/24	
o-Xylene	ND	0.0250	1	03/13/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.7 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.8 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*03/13/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411084
Chloride	ND	200	10	03/13/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

SP COMP 23 -6'

E403117-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Benzene	ND	0.0250	1	03/13/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/14/24	
Toluene	ND	0.0250	1	03/13/24	03/14/24	
o-Xylene	ND	0.0250	1	03/13/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.4 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.2 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*03/13/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411084
Chloride	ND	100	5	03/13/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

SP COMP 24 -6'

E403117-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Benzene	ND	0.0250	1	03/13/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/14/24	
Toluene	ND	0.0250	1	03/13/24	03/14/24	
o-Xylene	ND	0.0250	1	03/13/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.4 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.3 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*03/13/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411084
Chloride	ND	100	5	03/13/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

SP COMP 25 -8'

E403117-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Benzene	ND	0.0250	1	03/13/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/14/24	
Toluene	ND	0.0250	1	03/13/24	03/14/24	
o-Xylene	ND	0.0250	1	03/13/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.1 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*03/13/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411084
Chloride	ND	100	5	03/13/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

SP COMP 26 -8'

E403117-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Benzene	ND	0.0250	1	03/13/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/14/24	
Toluene	ND	0.0250	1	03/13/24	03/14/24	
o-Xylene	ND	0.0250	1	03/13/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.6 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.2 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*03/13/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411084
Chloride	ND	200	10	03/13/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

SP COMP 27 -8'

E403117-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Benzene	ND	0.0250	1	03/13/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/14/24	
Toluene	ND	0.0250	1	03/13/24	03/14/24	
o-Xylene	ND	0.0250	1	03/13/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.6 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.5 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*03/13/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411084
Chloride	ND	200	10	03/13/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

SP COMP 28 -8'

E403117-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Benzene	ND	0.0250	1	03/13/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/14/24	
Toluene	ND	0.0250	1	03/13/24	03/14/24	
o-Xylene	ND	0.0250	1	03/13/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.4 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*03/13/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411084
Chloride	ND	100	5	03/13/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

SP COMP 29 -6'

E403117-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Benzene	ND	0.0250	1	03/13/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/14/24	
Toluene	ND	0.0250	1	03/13/24	03/14/24	
o-Xylene	ND	0.0250	1	03/13/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.7 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.6 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*03/13/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411084
Chloride	ND	200	10	03/13/24	03/13/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

SP COMP 30 -4'

E403117-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Benzene	ND	0.0250	1	03/13/24	03/14/24	
Ethylbenzene	ND	0.0250	1	03/13/24	03/14/24	
Toluene	ND	0.0250	1	03/13/24	03/14/24	
o-Xylene	ND	0.0250	1	03/13/24	03/14/24	
p,m-Xylene	ND	0.0500	1	03/13/24	03/14/24	
Total Xylenes	ND	0.0250	1	03/13/24	03/14/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2411069
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/24	03/14/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.8 %*	*70-130*	*03/13/24*	*03/14/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/24	03/14/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*03/13/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411084
Chloride	ND	200	10	03/13/24	03/13/24	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2411069-BLK1)									Prepared: 03/13/24 Analyzed: 03/13/24
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 (2411069-BS1)									Prepared: 03/13/24 Analyzed: 03/13/24
Benzene	5.06	0.0250	5.00		101	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.02	0.0250	5.00		100	70-130			
o-Xylene	4.94	0.0250	5.00		98.9	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.48*		*8.00*		*93.5*	*70-130*			
Matrix Spike (2411069-MS1)				**Source: E403117-04**					Prepared: 03/13/24 Analyzed: 03/13/24
Benzene	5.02	0.0250	5.00	ND	100	54-133			
Ethylbenzene	4.99	0.0250	5.00	ND	99.7	61-133			
Toluene	5.00	0.0250	5.00	ND	99.9	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.3	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	99.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.46*		*8.00*		*93.3*	*70-130*			
Matrix Spike Dup (2411069-MSD1)				**Source: E403117-04**					Prepared: 03/13/24 Analyzed: 03/13/24
Benzene	5.06	0.0250	5.00	ND	101	54-133	0.630	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	0.591	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	0.720	20	
o-Xylene	4.95	0.0250	5.00	ND	99.0	63-131	0.687	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	0.651	20	
Total Xylenes	15.1	0.0250	15.0	ND	100	63-131	0.663	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.47*		*8.00*		*93.4*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2411069-BLK1)									Prepared: 03/13/24 Analyzed: 03/13/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.60*		*8.00*		*95.0*	*70-130*			
LCS (2411069-BS2)									Prepared: 03/13/24 Analyzed: 03/13/24
Gasoline Range Organics (C6-C10)	50.7	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.61*		*8.00*		*95.2*	*70-130*			
Matrix Spike (2411069-MS2)				**Source: E403117-04**					Prepared: 03/13/24 Analyzed: 03/13/24
Gasoline Range Organics (C6-C10)	51.0	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.57*		*8.00*		*94.6*	*70-130*			
Matrix Spike Dup (2411069-MSD2)				**Source: E403117-04**					Prepared: 03/13/24 Analyzed: 03/13/24
Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130	1.65	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.68*		*8.00*		*96.0*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2411065-BLK1)									Prepared: 03/13/24 Analyzed: 03/13/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*51.8*		*50.0*		*104*	*50-200*			
LCS (2411065-BS1)									Prepared: 03/13/24 Analyzed: 03/13/24
Diesel Range Organics (C10-C28)	294	25.0	250		118	38-132			
Surrogate: n-Nonane	*53.1*		*50.0*		*106*	*50-200*			
Matrix Spike (2411065-MS1)				**Source: E403117-02**					Prepared: 03/13/24 Analyzed: 03/13/24
Diesel Range Organics (C10-C28)	303	25.0	250	ND	121	38-132			
Surrogate: n-Nonane	*51.8*		*50.0*		*104*	*50-200*			
Matrix Spike Dup (2411065-MSD1)				**Source: E403117-02**					Prepared: 03/13/24 Analyzed: 03/13/24
Diesel Range Organics (C10-C28)	297	25.0	250	ND	119	38-132	2.06	20	
Surrogate: n-Nonane	*55.4*		*50.0*		*111*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/14/2024 3:53:40PM

Anions by EPA 300.0/9056A

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 (2411084-BLK1)									Prepared: 03/13/24 Analyzed: 03/13/24
Chloride	ND	20.0							
LCS (2411084-BS1)									Prepared: 03/13/24 Analyzed: 03/13/24
Chloride	249	20.0	250		99.7	90-110			
Matrix Spike (2411084-MS1)				**Source: E403117-02**					Prepared: 03/13/24 Analyzed: 03/13/24
Chloride	246	200	250	ND	98.3	80-120			
Matrix Spike Dup (2411084-MSD1)				**Source: E403117-02**					Prepared: 03/13/24 Analyzed: 03/13/24
Chloride	246	200	250	ND	98.6	80-120	0.252	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	03/14/24 15:53

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client: Mock Energy	
Project: West Mount #1	
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E403117 Job Number 20046-0001

TAT: 1D | 2D (X) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (X) | CO | UT | AZ | TX

Analysis and Method

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	BGDOC NM	BGDOC TX	Remarks
	03/11	S	1	SP Comp 16 - 2'	1							X		
				SP Comp 17 - 2'	2									
				SP Comp 18 - 2'	3									
				SP Comp 19 - 2'	4									
				SP Comp 20 - 2'	5									
				SP Comp 21 - 4'	6									
				SP Comp 22 - 4'	7									
				SP Comp 23 - 6'	8									
				SP Comp 24 - 6'	9									
	03/11	S	1	SP Comp 25 - 8'	10							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	03/11/24		Michelle Gonzales	3-12-24	1347
Michelle Gonzales	3-12-24	1700	Andrew Hobbs	3.12.24	1700
Andrew Hobbs	3.12.24	2300	Thank You Be Here	3-13-24	0500

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

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 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.

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Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client: Mack Energy
Project: West Mount 31
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E403117 Job Number 20046-0001

TAT: 1D | 2D | 3D | Standard — 2D

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX — NM

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	03/11	S	1	SP Comp 26 - 8'	11	X	
	"	"	"	SP Comp 27 - 8'	12	"	
	"	"	"	SP Comp 28 - 8'	13	"	
	"	"	"	SP Comp 29 - 6'	14	"	
	03/11	S	1	SP Comp 30 - 4'	15	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Soils

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Soils	03/11/24		Michelle Campos	3-12-24	1347
Michelle Campos	3-12-24	1700	Andrew Mobbs	3.12.24	1700
Andrew Mobbs	3-12-24	2300	Kenyon Hall	3-13-24	0500

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

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 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.

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Envirotech Analytical Laboratory

Printed: 3/13/2024 7:48:37AM

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:	03/13/24 05:00	Work Order ID:	E403117
Phone:	(575) 390-6397	Date Logged In:	03/12/24 16:58	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	03/14/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Project Manager and Time Sampled are not documented on COC by client.

Client Instruction

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

Date

envirotech 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:	West Mount #1
Work Order:	E403131
Job Number:	20046-0001
Received:	3/14/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/18/24

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: 3/18/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E403131
Date Received: 3/14/2024 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/14/2024 7:30:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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

Alexa Michaels
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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 #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	03/18/24 10:10

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 31 -4'	E403131-01A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SP Comp 32 -4'	E403131-02A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SP Comp 33 -4'	E403131-03A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SP Comp 34 -4'	E403131-04A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SP Comp 35 -4'	E403131-05A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SP Comp 36 -4'	E403131-06A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SP Comp 37 -4'	E403131-07A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SP Comp 38 -4'	E403131-08A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SP Comp 39 -4'	E403131-09A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SP Comp 40 -4'	E403131-10A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SP Comp 41 -4'	E403131-11A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SP Comp 42 -4'	E403131-12A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SP Comp 43 -4'	E403131-13A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SP Comp 44 -4'	E403131-14A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.
SP Comp 45 -4'	E403131-15A	Soil	03/12/24	03/14/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

SP Comp 31 -4'

E403131-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Benzene	ND	0.0250	1	03/14/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/15/24	
Toluene	ND	0.0250	1	03/14/24	03/15/24	
o-Xylene	ND	0.0250	1	03/14/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*90.9 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*90.9 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411113
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*113 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411127
Chloride	**110**	100	5	03/14/24	03/14/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

SP Comp 32 -4'

E403131-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Benzene	ND	0.0250	1	03/14/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/15/24	
Toluene	ND	0.0250	1	03/14/24	03/15/24	
o-Xylene	ND	0.0250	1	03/14/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411113
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411127
Chloride	ND	200	10	03/14/24	03/14/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

SP Comp 33 -4'

E403131-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Benzene	ND	0.0250	1	03/14/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/15/24	
Toluene	ND	0.0250	1	03/14/24	03/15/24	
o-Xylene	ND	0.0250	1	03/14/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*97.2 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.4 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*97.2 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.4 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411113
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411127
Chloride	**219**	200	10	03/14/24	03/14/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

SP Comp 34 -4'

E403131-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Benzene	ND	0.0250	1	03/14/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/15/24	
Toluene	ND	0.0250	1	03/14/24	03/15/24	
o-Xylene	ND	0.0250	1	03/14/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.9 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*94.0 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.9 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*94.0 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411113
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411127
Chloride	ND	100	5	03/14/24	03/14/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

SP Comp 35 -4'

E403131-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Benzene	ND	0.0250	1	03/14/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/15/24	
Toluene	ND	0.0250	1	03/14/24	03/15/24	
o-Xylene	ND	0.0250	1	03/14/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*97.2 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.8 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*97.2 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*92.8 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411113
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411127
Chloride	ND	200	10	03/14/24	03/14/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

SP Comp 36 -4'

E403131-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Benzene	ND	0.0250	1	03/14/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/15/24	
Toluene	ND	0.0250	1	03/14/24	03/15/24	
o-Xylene	ND	0.0250	1	03/14/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*86.7 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*94.5 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*86.7 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*94.5 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411113
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411127
Chloride	**198**	100	5	03/14/24	03/14/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

SP Comp 37 -4'

E403131-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Benzene	ND	0.0250	1	03/14/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/15/24	
Toluene	ND	0.0250	1	03/14/24	03/15/24	
o-Xylene	ND	0.0250	1	03/14/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*93.0 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.9 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*93.0 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.9 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411113
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411127
Chloride	**102**	100	5	03/14/24	03/14/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

SP Comp 38 -4'

E403131-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Benzene	ND	0.0250	1	03/14/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/15/24	
Toluene	ND	0.0250	1	03/14/24	03/15/24	
o-Xylene	ND	0.0250	1	03/14/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*93.7 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.4 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*93.7 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*98.4 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411113
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411127
Chloride	ND	100	5	03/14/24	03/15/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

SP Comp 39 -4'

E403131-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Benzene	ND	0.0250	1	03/14/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/15/24	
Toluene	ND	0.0250	1	03/14/24	03/15/24	
o-Xylene	ND	0.0250	1	03/14/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*95.2 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.7 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*95.2 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*94.7 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*106 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411113
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/14/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/14/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*03/14/24*	*03/14/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411127
Chloride	ND	200	10	03/14/24	03/15/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

SP Comp 40 -4'

E403131-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Benzene	ND	0.0250	1	03/14/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/15/24	
Toluene	ND	0.0250	1	03/14/24	03/15/24	
o-Xylene	ND	0.0250	1	03/14/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*97.3 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.7 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*98.6 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*97.3 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.7 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*98.6 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411113
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/15/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*03/14/24*	*03/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411127
Chloride	ND	100	5	03/14/24	03/15/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

SP Comp 41 -4'

E403131-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Benzene	ND	0.0250	1	03/14/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/15/24	
Toluene	ND	0.0250	1	03/14/24	03/15/24	
o-Xylene	ND	0.0250	1	03/14/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*98.4 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*98.4 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*107 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411113
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/15/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*03/14/24*	*03/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411127
Chloride	ND	100	5	03/14/24	03/15/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

SP Comp 42 -4'

E403131-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Benzene	ND	0.0250	1	03/14/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/15/24	
Toluene	ND	0.0250	1	03/14/24	03/15/24	
o-Xylene	ND	0.0250	1	03/14/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*95.0 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.1 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*95.0 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.1 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411113
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/15/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*03/14/24*	*03/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411127
Chloride	ND	200	10	03/14/24	03/15/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

SP Comp 43 -4'

E403131-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Benzene	ND	0.0250	1	03/14/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/15/24	
Toluene	ND	0.0250	1	03/14/24	03/15/24	
o-Xylene	ND	0.0250	1	03/14/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*94.1 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.2 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*94.1 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*93.2 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*108 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411113
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/15/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*03/14/24*	*03/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411127
Chloride	ND	100	5	03/14/24	03/15/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

SP Comp 44 -4'

E403131-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Benzene	ND	0.0250	1	03/14/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/15/24	
Toluene	ND	0.0250	1	03/14/24	03/15/24	
o-Xylene	ND	0.0250	1	03/14/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*94.2 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.7 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*94.2 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.7 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411113
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/15/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*03/14/24*	*03/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2411127
Chloride	ND	100	5	03/14/24	03/15/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

SP Comp 45 -4'

E403131-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Benzene	ND	0.0250	1	03/14/24	03/15/24	
Ethylbenzene	ND	0.0250	1	03/14/24	03/15/24	
Toluene	ND	0.0250	1	03/14/24	03/15/24	
o-Xylene	ND	0.0250	1	03/14/24	03/15/24	
p,m-Xylene	ND	0.0500	1	03/14/24	03/15/24	
Total Xylenes	ND	0.0250	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2411103
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/24	03/15/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*70-130*	*03/14/24*	*03/15/24*	
Surrogate: Toluene-d8		*105 %*	*70-130*	*03/14/24*	*03/15/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2411113
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/24	03/15/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/24	03/15/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*03/14/24*	*03/15/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2411128
Chloride	ND	200	10	03/14/24	03/15/24	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2411103-BLK1)									Prepared: 03/14/24 Analyzed: 03/15/24
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: Bromofluorobenzene	*0.481*		*0.500*		*96.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.491*		*0.500*		*98.1*	*70-130*			
Surrogate: Toluene-d8	*0.479*		*0.500*		*95.8*	*70-130*			
LCS (2411103-BS1)									Prepared: 03/14/24 Analyzed: 03/15/24
Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.41	0.0250	2.50		96.3	70-130			
Toluene	2.71	0.0250	2.50		108	70-130			
o-Xylene	2.40	0.0250	2.50		96.2	70-130			
p,m-Xylene	4.85	0.0500	5.00		97.0	70-130			
Total Xylenes	7.25	0.0250	7.50		96.7	70-130			
Surrogate: Bromofluorobenzene	*0.495*		*0.500*		*99.0*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.491*		*0.500*		*98.1*	*70-130*			
Surrogate: Toluene-d8	*0.513*		*0.500*		*103*	*70-130*			
Matrix Spike (2411103-MS1)				**Source: E403131-04**					Prepared: 03/14/24 Analyzed: 03/15/24
Benzene	2.59	0.0250	2.50	ND	104	48-131			
Ethylbenzene	2.45	0.0250	2.50	ND	98.1	45-135			
Toluene	2.76	0.0250	2.50	ND	111	48-130			
o-Xylene	2.21	0.0250	2.50	ND	88.5	43-135			
p,m-Xylene	4.42	0.0500	5.00	ND	88.4	43-135			
Total Xylenes	6.63	0.0250	7.50	ND	88.5	43-135			
Surrogate: Bromofluorobenzene	*0.499*		*0.500*		*99.8*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: Toluene-d8	*0.537*		*0.500*		*107*	*70-130*			
Matrix Spike Dup (2411103-MSD1)				**Source: E403131-04**					Prepared: 03/14/24 Analyzed: 03/15/24
Benzene	2.59	0.0250	2.50	ND	103	48-131	0.116	23	
Ethylbenzene	2.44	0.0250	2.50	ND	97.6	45-135	0.593	27	
Toluene	2.74	0.0250	2.50	ND	109	48-130	1.00	24	
o-Xylene	2.45	0.0250	2.50	ND	98.2	43-135	10.3	27	
p,m-Xylene	4.95	0.0500	5.00	ND	99.1	43-135	11.3	27	
Total Xylenes	7.41	0.0250	7.50	ND	98.8	43-135	11.0	27	
Surrogate: Bromofluorobenzene	*0.498*		*0.500*		*99.6*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.503*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.521*		*0.500*		*104*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2411103-BLK1)									Prepared: 03/14/24 Analyzed: 03/15/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.481*		*0.500*		*96.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.491*		*0.500*		*98.1*	*70-130*			
Surrogate: Toluene-d8	*0.479*		*0.500*		*95.8*	*70-130*			
LCS (2411103-BS2)									Prepared: 03/14/24 Analyzed: 03/15/24
Gasoline Range Organics (C6-C10)	45.3	20.0	50.0		90.6	70-130			
Surrogate: Bromofluorobenzene	*0.491*		*0.500*		*98.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.497*		*0.500*		*99.4*	*70-130*			
Surrogate: Toluene-d8	*0.475*		*0.500*		*95.0*	*70-130*			
Matrix Spike (2411103-MS2)				**Source: E403131-04**					Prepared: 03/14/24 Analyzed: 03/15/24
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	98.1	70-130			
Surrogate: Bromofluorobenzene	*0.533*		*0.500*		*107*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.483*		*0.500*		*96.5*	*70-130*			
Surrogate: Toluene-d8	*0.502*		*0.500*		*100*	*70-130*			
Matrix Spike Dup (2411103-MSD2)				**Source: E403131-04**					Prepared: 03/14/24 Analyzed: 03/15/24
Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.4	70-130	10.4	20	
Surrogate: Bromofluorobenzene	*0.441*		*0.500*		*88.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.461*		*0.500*		*92.1*	*70-130*			
Surrogate: Toluene-d8	*0.508*		*0.500*		*102*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2411113-BLK1)									Prepared: 03/14/24 Analyzed: 03/14/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*55.9*		*50.0*		*112*	*50-200*			
LCS (2411113-BS1)									Prepared: 03/14/24 Analyzed: 03/14/24
Diesel Range Organics (C10-C28)	302	25.0	250		121	38-132			
Surrogate: n-Nonane	*54.9*		*50.0*		*110*	*50-200*			
LCS Dup (2411113-BSD1)									Prepared: 03/14/24 Analyzed: 03/14/24
Diesel Range Organics (C10-C28)	298	25.0	250		119	38-132	1.40	20	
Surrogate: n-Nonane	*53.9*		*50.0*		*108*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2411127-BLK1)									Prepared: 03/14/24 Analyzed: 03/14/24
Chloride	ND	20.0							
LCS (2411127-BS1)									Prepared: 03/14/24 Analyzed: 03/14/24
Chloride	268	20.0	250		107	90-110			
LCS Dup (2411127-BSD1)									Prepared: 03/14/24 Analyzed: 03/14/24
Chloride	267	20.0	250		107	90-110	0.527	20	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/18/2024 10:10:03AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2411128-BLK1)									Prepared: 03/14/24 Analyzed: 03/15/24
Chloride	ND	20.0							
LCS (2411128-BS1)									Prepared: 03/14/24 Analyzed: 03/15/24
Chloride	251	20.0	250		100	90-110			
LCS Dup (2411128-BSD1)									Prepared: 03/14/24 Analyzed: 03/15/24
Chloride	253	20.0	250		101	90-110	0.986	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	03/18/24 10:10

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 2

Client: Nock Energy	Bill To
Project: West Mount #1	Attention: ENERGY STAFFING SERVICES
Project Manager:	Address: 2724 NW COUNTY RD
Address:	City, State, Zip HOBBS, NM 88240
City, State, Zip	Phone: 575-393-9048
Phone:	Email: NATALIE@ENERGYSTAFFINGLLC.COM
Email:	BRITTNEY@ENERGYSTAFFINGLLC.COM
Report due by:	

Lab Use Only: Lab WO# E 403131 | Job Number 20046-0001

TAT: 1D | 2D x | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM x | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	BGDOC TX	Remarks
	03/12	S	1	SP Comp 31 - 4'	1	x		
				SP Comp 32 - 4'	2			
				SP Comp 33 - 4'	3			
				SP Comp 34 - 4'	4			
				SP Comp 35 - 4'	5			
				SP Comp 36 - 4'	6			
				SP Comp 37 - 4'	7			
				SP Comp 38 - 4'	8			
				SP Comp 39 - 4'	9			
	03/12	S	1	SP Comp 40 - 4'	10	x		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	03/12/24		Michelle Coyle	3-13-24	1126
Michelle Coyle	3-13-24	1530	L.M.	3.13.24	1700
L.M.	3-13-24	2300	Kayla R Hall	3-14-24	0730

Lab Use Only: Received on ice: (Y) N

T1 ____ T2 ____ T3 ____

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

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Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 2 of 2

Client: Mack Energy	Bill To
Project: West Navi #1	Attention: ENERGY STAFFING SERVICES
Project Manager:	Address: 2724 NW COUNTY RD
Address:	City, State, Zip HOBBS, NM 88240
City, State, Zip	Phone: 575-393-9048
Phone:	Email: NATALIE@ENERGYSTAFFINGLLC.COM
Email:	BRITTNEY@ENERGYSTAFFINGLLC.COM
Report due by:	

Lab Use Only: Lab WO# E403131 | Job Number 20046-0001

TAT: 1D | 2D | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	03/12	S	1	SP Comp 41 - 4'	11	X	
	"	"	"	SP Comp 42 - 4'	12	"	
	"	"	"	SP Comp 43 - 4'	13	"	
	"	"	"	SP Comp 44 - 4'	14	"	
	03/12	S	1	SP Comp 45 - 4'	15	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	03/12/24		Michelle Gaytan	3.13.24	1126
Michelle Gaytan	3.13.24	1530	L.M.	3.13.24	1700
L.M.	3.13.24	2300	Kayla L Hall	3.14.24	0730

Lab Use Only: Received on ice: (Y) / N

T1 ____ T2 ____ T3 ____

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Envirotech Analytical Laboratory

Printed: 3/14/2024 2:15:05PM

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:	03/14/24 07:30	Work Order ID:	E403131
Phone:	(575) 390-6397	Date Logged In:	03/13/24 17:31	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	03/15/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Project Manager and Time Sampled were not documented on COC by client

Client Instruction

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

Date

envirotech 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:	West Mount #1
Work Order:	E403175
Job Number:	20046-0001
Received:	3/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/20/24

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: 3/20/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E403175
Date Received: 3/19/2024 9:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/19/2024 9:00:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	03/20/24 15:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 106-2'	E403175-01A	Soil	03/15/24	03/19/24	Glass Jar, 2 oz.
SP Comp 107-2'	E403175-02A	Soil	03/15/24	03/19/24	Glass Jar, 2 oz.
SP Comp 108-2'	E403175-03A	Soil	03/15/24	03/19/24	Glass Jar, 2 oz.
SP Comp 109-2'	E403175-04A	Soil	03/15/24	03/19/24	Glass Jar, 2 oz.
SP Comp 110-2'	E403175-05A	Soil	03/15/24	03/19/24	Glass Jar, 2 oz.
SP Comp 111-2'	E403175-06A	Soil	03/15/24	03/19/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/20/2024 3:01:18PM

SP Comp 106-2'

E403175-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2412026
Benzene	ND	0.0250	1	03/19/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/19/24	03/20/24	
Toluene	ND	0.0250	1	03/19/24	03/20/24	
o-Xylene	ND	0.0250	1	03/19/24	03/20/24	
p,m-Xylene	ND	0.0500	1	03/19/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/19/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.0 %*	*70-130*	*03/19/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2412026
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/19/24	03/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.9 %*	*70-130*	*03/19/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412027
Diesel Range Organics (C10-C28)	ND	25.0	1	03/19/24	03/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/19/24	03/20/24	
Surrogate: n-Nonane		*90.5 %*	*50-200*	*03/19/24*	*03/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2412035
Chloride	**195**	20.0	1	03/19/24	03/19/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/20/2024 3:01:18PM

SP Comp 107-2'

E403175-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2412026
Benzene	ND	0.0250	1	03/19/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/19/24	03/20/24	
Toluene	ND	0.0250	1	03/19/24	03/20/24	
o-Xylene	ND	0.0250	1	03/19/24	03/20/24	
p,m-Xylene	ND	0.0500	1	03/19/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/19/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.5 %*	*70-130*	*03/19/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2412026
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/19/24	03/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.7 %*	*70-130*	*03/19/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412027
Diesel Range Organics (C10-C28)	ND	25.0	1	03/19/24	03/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/19/24	03/20/24	
Surrogate: n-Nonane		*88.5 %*	*50-200*	*03/19/24*	*03/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2412035
Chloride	**334**	20.0	1	03/19/24	03/19/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/20/2024 3:01:18PM

SP Comp 108-2'

E403175-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2412026
Benzene	ND	0.0250	1	03/19/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/19/24	03/20/24	
Toluene	ND	0.0250	1	03/19/24	03/20/24	
o-Xylene	ND	0.0250	1	03/19/24	03/20/24	
p,m-Xylene	ND	0.0500	1	03/19/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/19/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*03/19/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2412026
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/19/24	03/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.5 %*	*70-130*	*03/19/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412027
Diesel Range Organics (C10-C28)	ND	25.0	1	03/19/24	03/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/19/24	03/20/24	
Surrogate: n-Nonane		*87.1 %*	*50-200*	*03/19/24*	*03/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2412035
Chloride	**266**	20.0	1	03/19/24	03/19/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/20/2024 3:01:18PM

SP Comp 109-2'

E403175-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2412026
Benzene	ND	0.0250	1	03/19/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/19/24	03/20/24	
Toluene	ND	0.0250	1	03/19/24	03/20/24	
o-Xylene	ND	0.0250	1	03/19/24	03/20/24	
p,m-Xylene	ND	0.0500	1	03/19/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/19/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*	*70-130*	*03/19/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2412026
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/19/24	03/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.2 %*	*70-130*	*03/19/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412027
Diesel Range Organics (C10-C28)	ND	25.0	1	03/19/24	03/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/19/24	03/20/24	
Surrogate: n-Nonane		*89.0 %*	*50-200*	*03/19/24*	*03/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2412035
Chloride	**117**	40.0	2	03/19/24	03/19/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/20/2024 3:01:18PM

SP Comp 110-2'

E403175-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2412026
Benzene	ND	0.0250	1	03/19/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/19/24	03/20/24	
Toluene	ND	0.0250	1	03/19/24	03/20/24	
o-Xylene	ND	0.0250	1	03/19/24	03/20/24	
p,m-Xylene	ND	0.0500	1	03/19/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/19/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.6 %*	*70-130*	*03/19/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2412026
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/19/24	03/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*03/19/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412027
Diesel Range Organics (C10-C28)	ND	25.0	1	03/19/24	03/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/19/24	03/20/24	
Surrogate: n-Nonane		*90.6 %*	*50-200*	*03/19/24*	*03/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2412035
Chloride	**255**	20.0	1	03/19/24	03/19/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/20/2024 3:01:18PM

SP Comp 111-2'

E403175-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2412026
Benzene	ND	0.0250	1	03/19/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/19/24	03/20/24	
Toluene	ND	0.0250	1	03/19/24	03/20/24	
o-Xylene	ND	0.0250	1	03/19/24	03/20/24	
p,m-Xylene	ND	0.0500	1	03/19/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/19/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.5 %*	*70-130*	*03/19/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2412026
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/19/24	03/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.0 %*	*70-130*	*03/19/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412027
Diesel Range Organics (C10-C28)	ND	25.0	1	03/19/24	03/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/19/24	03/20/24	
Surrogate: n-Nonane		*87.7 %*	*50-200*	*03/19/24*	*03/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2412035
Chloride	**200**	20.0	1	03/19/24	03/19/24	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/20/2024 3:01:18PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2412026-BLK1)									Prepared: 03/19/24 Analyzed: 03/19/24
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	*7.71*		*8.00*		*96.4*	*70-130*			
LCS (2412026-BS1)									Prepared: 03/19/24 Analyzed: 03/19/24
Benzene	4.79	0.0250	5.00		95.8	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.3	70-130			
Toluene	4.86	0.0250	5.00		97.2	70-130			
o-Xylene	4.86	0.0250	5.00		97.1	70-130			
p,m-Xylene	9.76	0.0500	10.0		97.5	70-130			
Total Xylenes	14.6	0.0250	15.0		97.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.80*		*8.00*		*97.5*	*70-130*			
Matrix Spike (2412026-MS1)				**Source: E403170-42**					Prepared: 03/19/24 Analyzed: 03/20/24
Benzene	5.01	0.0250	5.00	ND	100	54-133			
Ethylbenzene	4.93	0.0250	5.00	ND	98.5	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	5.00	0.0250	5.00	ND	100	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.28*		*8.00*		*91.1*	*70-130*			
Matrix Spike Dup (2412026-MSD1)				**Source: E403170-42**					Prepared: 03/19/24 Analyzed: 03/20/24
Benzene	4.91	0.0250	5.00	ND	98.2	54-133	2.09	20	
Ethylbenzene	4.86	0.0250	5.00	ND	97.2	61-133	1.35	20	
Toluene	4.97	0.0250	5.00	ND	99.4	61-130	1.79	20	
o-Xylene	4.92	0.0250	5.00	ND	98.5	63-131	1.53	20	
p,m-Xylene	9.92	0.0500	10.0	ND	99.2	63-131	1.25	20	
Total Xylenes	14.8	0.0250	15.0	ND	99.0	63-131	1.34	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.33*		*8.00*		*91.6*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/20/2024 3:01:18PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2412026-BLK1)									Prepared: 03/19/24 Analyzed: 03/19/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.10*		*8.00*		*88.8*	*70-130*			
LCS (2412026-BS2)									Prepared: 03/19/24 Analyzed: 03/19/24
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0		94.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.33*		*8.00*		*91.6*	*70-130*			
Matrix Spike (2412026-MS2)				**Source: E403170-42**					Prepared: 03/19/24 Analyzed: 03/20/24
Gasoline Range Organics (C6-C10)	41.5	20.0	50.0	ND	83.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.16*		*8.00*		*89.4*	*70-130*			
Matrix Spike Dup (2412026-MSD2)				**Source: E403170-42**					Prepared: 03/19/24 Analyzed: 03/20/24
Gasoline Range Organics (C6-C10)	40.4	20.0	50.0	ND	80.9	70-130	2.56	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.20*		*8.00*		*89.9*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/20/2024 3:01:18PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2412027-BLK1)									Prepared: 03/19/24 Analyzed: 03/19/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*43.9*		*50.0*		*87.8*	*50-200*			
LCS (2412027-BS1)									Prepared: 03/19/24 Analyzed: 03/19/24
Diesel Range Organics (C10-C28)	245	25.0	250		98.0	38-132			
Surrogate: n-Nonane	*41.9*		*50.0*		*83.7*	*50-200*			
Matrix Spike (2412027-MS1)				**Source: E403163-04**					Prepared: 03/19/24 Analyzed: 03/19/24
Diesel Range Organics (C10-C28)	550	50.0	250	447	41.4	38-132			
Surrogate: n-Nonane	*42.5*		*50.0*		*85.1*	*50-200*			
Matrix Spike Dup (2412027-MSD1)				**Source: E403163-04**					Prepared: 03/19/24 Analyzed: 03/19/24
Diesel Range Organics (C10-C28)	553	50.0	250	447	42.6	38-132	0.539	20	
Surrogate: n-Nonane	*43.2*		*50.0*		*86.4*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/20/2024 3:01:18PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2412035-BLK1)									Prepared: 03/19/24 Analyzed: 03/19/24
Chloride	ND	20.0							
LCS (2412035-BS1)									Prepared: 03/19/24 Analyzed: 03/19/24
Chloride	250	20.0	250		100	90-110			
LCS Dup (2412035-BSD1)									Prepared: 03/19/24 Analyzed: 03/19/24
Chloride	251	20.0	250		100	90-110	0.253	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	03/20/24 15:01

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 1

Client: MACK Energy	Bill To
Project: West Mount #4	Attention: ENERGY STAFFING SERVICES
Project Manager:	Address: 2724 NW COUNTY RD
Address:	City, State, Zip HOBBS, NM 88240
City, State, Zip	Phone: 575-393-9048
Phone:	Email: NATALIE@ENERGYSTAFFINGLLC.COM
Email:	BRITTNEY@ENERGYSTAFFINGLLC.COM
Report due by:	

Lab Use Only: Lab WO# E403175 | Job Number 01058-0007

TAT: 1D | 2D x | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM x | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	03/15	S	1	SP Comp 106 - 2'	1	x	
				SP Comp 107 - 2'	2		
				SP Comp 108 - 2'	3		
				SP Comp 109 - 2'	4		
				SP Comp 110 - 2'	5		
	03/15	S	1	SP Comp 111 - 2'	6	x	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Jden Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jden Solis	03/15/24		Michelle Gough	3-18-24	1204
Michelle Gough	3-18-24	1507	Andrew Hobbs	3.18.24	1700
Andrew Hobbs	3.18.24	2345		3.19.24	9:00

Lab Use Only: Received on ice: (Y) / N; T1 ____ T2 ____ T3 ____; AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Envirotech Analytical Laboratory

Printed: 3/19/2024 2:24:45PM

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:	03/19/24 09:00	Work Order ID:	E403175
Phone:	(575) 390-6397	Date Logged In:	03/18/24 16:35	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	03/20/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes
2. Does the number of samples per sampling site location match the COC	Yes
3. Were samples dropped off by client or carrier?	Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes

Carrier: Courier

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
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?	No
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
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?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
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:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
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

Comments/Resolution

Project manager and time sampled are not documented on the COC by client.

Client Instruction

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

Date

envirotech 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:	West Mount #1
Work Order:	E403180
Job Number:	20046-0001
Received:	3/20/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/21/24

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: 3/21/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E403180
Date Received: 3/20/2024 9:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/20/2024 9:00:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	03/21/24 15:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 112-2'	E403180-01A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SP Comp 113-2'	E403180-02A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SP Comp 114-2'	E403180-03A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SP Comp 115-2'	E403180-04A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SP Comp 116-2'	E403180-05A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SP Comp 117-2'	E403180-06A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SP Comp 118-2'	E403180-07A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SP Comp 119-2'	E403180-08A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SP Comp 120-2'	E403180-09A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SP Comp 121-2'	E403180-10A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SP Comp 122-2'	E403180-11A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SP Comp 123-2'	E403180-12A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SP Comp 124-2'	E403180-13A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SP Comp 125-2'	E403180-14A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.
SP Comp 126-2'	E403180-15A	Soil	03/18/24	03/20/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

SP Comp 112-2'

E403180-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Benzene	ND	0.0250	1	03/20/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/20/24	03/20/24	
Toluene	ND	0.0250	1	03/20/24	03/20/24	
o-Xylene	ND	0.0250	1	03/20/24	03/20/24	
p,m-Xylene	ND	0.0500	1	03/20/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/20/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.0 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/20/24	03/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/20/24	03/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/20/24	03/20/24	
Surrogate: n-Nonane		*91.4 %*	*50-200*	*03/20/24*	*03/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2412059
Chloride	**163**	40.0	2	03/20/24	03/21/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

SP Comp 113-2'

E403180-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Benzene	ND	0.0250	1	03/20/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/20/24	03/20/24	
Toluene	ND	0.0250	1	03/20/24	03/20/24	
o-Xylene	ND	0.0250	1	03/20/24	03/20/24	
p,m-Xylene	ND	0.0500	1	03/20/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/20/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.7 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/20/24	03/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.9 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/20/24	03/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/20/24	03/20/24	
Surrogate: n-Nonane		*96.2 %*	*50-200*	*03/20/24*	*03/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2412059
Chloride	**135**	100	5	03/20/24	03/21/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

SP Comp 114-2'

E403180-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Benzene	ND	0.0250	1	03/20/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/20/24	03/20/24	
Toluene	ND	0.0250	1	03/20/24	03/20/24	
o-Xylene	ND	0.0250	1	03/20/24	03/20/24	
p,m-Xylene	ND	0.0500	1	03/20/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/20/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.4 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/20/24	03/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.0 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/20/24	03/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/20/24	03/20/24	
Surrogate: n-Nonane		*91.7 %*	*50-200*	*03/20/24*	*03/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2412059
Chloride	**106**	100	5	03/20/24	03/21/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

SP Comp 115-2'

E403180-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Benzene	ND	0.0250	1	03/20/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/20/24	03/20/24	
Toluene	ND	0.0250	1	03/20/24	03/20/24	
o-Xylene	ND	0.0250	1	03/20/24	03/20/24	
p,m-Xylene	ND	0.0500	1	03/20/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/20/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/20/24	03/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.7 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/20/24	03/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/20/24	03/20/24	
Surrogate: n-Nonane		*90.2 %*	*50-200*	*03/20/24*	*03/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2412059
Chloride	ND	200	10	03/20/24	03/21/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

SP Comp 116-2'

E403180-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Benzene	ND	0.0250	1	03/20/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/20/24	03/20/24	
Toluene	ND	0.0250	1	03/20/24	03/20/24	
o-Xylene	ND	0.0250	1	03/20/24	03/20/24	
p,m-Xylene	ND	0.0500	1	03/20/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/20/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.3 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/20/24	03/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.0 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/20/24	03/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/20/24	03/20/24	
Surrogate: n-Nonane		*91.8 %*	*50-200*	*03/20/24*	*03/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2412059
Chloride	**467**	200	10	03/20/24	03/21/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

SP Comp 117-2'

E403180-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Benzene	ND	0.0250	1	03/20/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/20/24	03/20/24	
Toluene	ND	0.0250	1	03/20/24	03/20/24	
o-Xylene	ND	0.0250	1	03/20/24	03/20/24	
p,m-Xylene	ND	0.0500	1	03/20/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/20/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/20/24	03/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.1 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/20/24	03/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/20/24	03/20/24	
Surrogate: n-Nonane		*90.4 %*	*50-200*	*03/20/24*	*03/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2412059
Chloride	**243**	200	10	03/20/24	03/21/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

SP Comp 118-2'

E403180-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Benzene	ND	0.0250	1	03/20/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/20/24	03/20/24	
Toluene	ND	0.0250	1	03/20/24	03/20/24	
o-Xylene	ND	0.0250	1	03/20/24	03/20/24	
p,m-Xylene	ND	0.0500	1	03/20/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/20/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/20/24	03/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.8 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/20/24	03/20/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/20/24	03/20/24	
Surrogate: n-Nonane		*95.4 %*	*50-200*	*03/20/24*	*03/20/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2412059
Chloride	ND	200	10	03/20/24	03/21/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

SP Comp 119-2'

E403180-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Benzene	ND	0.0250	1	03/20/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/20/24	03/20/24	
Toluene	ND	0.0250	1	03/20/24	03/20/24	
o-Xylene	ND	0.0250	1	03/20/24	03/20/24	
p,m-Xylene	ND	0.0500	1	03/20/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/20/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.7 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/20/24	03/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.9 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/20/24	03/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/20/24	03/21/24	
Surrogate: n-Nonane		*96.5 %*	*50-200*	*03/20/24*	*03/21/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2412059
Chloride	**222**	200	10	03/20/24	03/21/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

SP Comp 120-2'

E403180-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Benzene	ND	0.0250	1	03/20/24	03/20/24	
Ethylbenzene	ND	0.0250	1	03/20/24	03/20/24	
Toluene	ND	0.0250	1	03/20/24	03/20/24	
o-Xylene	ND	0.0250	1	03/20/24	03/20/24	
p,m-Xylene	ND	0.0500	1	03/20/24	03/20/24	
Total Xylenes	ND	0.0250	1	03/20/24	03/20/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/20/24	03/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.0 %*	*70-130*	*03/20/24*	*03/20/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/20/24	03/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/20/24	03/21/24	
Surrogate: n-Nonane		*94.4 %*	*50-200*	*03/20/24*	*03/21/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2412059
Chloride	**479**	200	10	03/20/24	03/21/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

SP Comp 121-2'

E403180-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Benzene	ND	0.0250	1	03/20/24	03/21/24	
Ethylbenzene	ND	0.0250	1	03/20/24	03/21/24	
Toluene	ND	0.0250	1	03/20/24	03/21/24	
o-Xylene	ND	0.0250	1	03/20/24	03/21/24	
p,m-Xylene	ND	0.0500	1	03/20/24	03/21/24	
Total Xylenes	ND	0.0250	1	03/20/24	03/21/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*	*70-130*	*03/20/24*	*03/21/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/20/24	03/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.2 %*	*70-130*	*03/20/24*	*03/21/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/20/24	03/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/20/24	03/21/24	
Surrogate: n-Nonane		*92.9 %*	*50-200*	*03/20/24*	*03/21/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2412059
Chloride	**222**	200	10	03/20/24	03/20/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

SP Comp 122-2'

E403180-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Benzene	ND	0.0250	1	03/20/24	03/21/24	
Ethylbenzene	ND	0.0250	1	03/20/24	03/21/24	
Toluene	ND	0.0250	1	03/20/24	03/21/24	
o-Xylene	ND	0.0250	1	03/20/24	03/21/24	
p,m-Xylene	ND	0.0500	1	03/20/24	03/21/24	
Total Xylenes	ND	0.0250	1	03/20/24	03/21/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*03/20/24*	*03/21/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/20/24	03/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.1 %*	*70-130*	*03/20/24*	*03/21/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/20/24	03/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/20/24	03/21/24	
Surrogate: n-Nonane		*93.9 %*	*50-200*	*03/20/24*	*03/21/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2412059
Chloride	ND	200	10	03/20/24	03/21/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

SP Comp 123-2'

E403180-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Benzene	ND	0.0250	1	03/20/24	03/21/24	
Ethylbenzene	ND	0.0250	1	03/20/24	03/21/24	
Toluene	ND	0.0250	1	03/20/24	03/21/24	
o-Xylene	ND	0.0250	1	03/20/24	03/21/24	
p,m-Xylene	ND	0.0500	1	03/20/24	03/21/24	
Total Xylenes	ND	0.0250	1	03/20/24	03/21/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*03/20/24*	*03/21/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/20/24	03/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.8 %*	*70-130*	*03/20/24*	*03/21/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/20/24	03/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/20/24	03/21/24	
Surrogate: n-Nonane		*94.4 %*	*50-200*	*03/20/24*	*03/21/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2412059
Chloride	ND	200	10	03/20/24	03/21/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

SP Comp 124-2'

E403180-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Benzene	ND	0.0250	1	03/20/24	03/21/24	
Ethylbenzene	ND	0.0250	1	03/20/24	03/21/24	
Toluene	ND	0.0250	1	03/20/24	03/21/24	
o-Xylene	ND	0.0250	1	03/20/24	03/21/24	
p,m-Xylene	ND	0.0500	1	03/20/24	03/21/24	
Total Xylenes	ND	0.0250	1	03/20/24	03/21/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.6 %*	*70-130*	*03/20/24*	*03/21/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/20/24	03/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*03/20/24*	*03/21/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/20/24	03/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/20/24	03/21/24	
Surrogate: n-Nonane		*93.8 %*	*50-200*	*03/20/24*	*03/21/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2412059
Chloride	ND	200	10	03/20/24	03/21/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

SP Comp 125-2'

E403180-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Benzene	ND	0.0250	1	03/20/24	03/21/24	
Ethylbenzene	ND	0.0250	1	03/20/24	03/21/24	
Toluene	ND	0.0250	1	03/20/24	03/21/24	
o-Xylene	ND	0.0250	1	03/20/24	03/21/24	
p,m-Xylene	ND	0.0500	1	03/20/24	03/21/24	
Total Xylenes	ND	0.0250	1	03/20/24	03/21/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.5 %*	*70-130*	*03/20/24*	*03/21/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/20/24	03/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*03/20/24*	*03/21/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/20/24	03/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/20/24	03/21/24	
Surrogate: n-Nonane		*97.0 %*	*50-200*	*03/20/24*	*03/21/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2412059
Chloride	**251**	200	10	03/20/24	03/21/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

SP Comp 126-2'

E403180-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Benzene	ND	0.0250	1	03/20/24	03/21/24	
Ethylbenzene	ND	0.0250	1	03/20/24	03/21/24	
Toluene	ND	0.0250	1	03/20/24	03/21/24	
o-Xylene	ND	0.0250	1	03/20/24	03/21/24	
p,m-Xylene	ND	0.0500	1	03/20/24	03/21/24	
Total Xylenes	ND	0.0250	1	03/20/24	03/21/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.0 %*	*70-130*	*03/20/24*	*03/21/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2412049
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/20/24	03/21/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*03/20/24*	*03/21/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2412065
Diesel Range Organics (C10-C28)	ND	25.0	1	03/20/24	03/21/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/20/24	03/21/24	
Surrogate: n-Nonane		*97.0 %*	*50-200*	*03/20/24*	*03/21/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2412059
Chloride	**491**	200	10	03/20/24	03/21/24	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2412049-BLK1)									Prepared: 03/20/24 Analyzed: 03/20/24
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	*7.44*		*8.00*		*93.0*	*70-130*			
LCS (2412049-BS1)									Prepared: 03/20/24 Analyzed: 03/20/24
Benzene	4.82	0.0250	5.00		96.3	70-130			
Ethylbenzene	5.11	0.0250	5.00		102	70-130			
Toluene	5.02	0.0250	5.00		100	70-130			
o-Xylene	5.06	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	*7.32*		*8.00*		*91.5*	*70-130*			
Matrix Spike (2412049-MS1)				**Source: E403180-03**					Prepared: 03/20/24 Analyzed: 03/20/24
Benzene	4.90	0.0250	5.00	ND	98.0	54-133			
Ethylbenzene	5.19	0.0250	5.00	ND	104	61-133			
Toluene	5.10	0.0250	5.00	ND	102	61-130			
o-Xylene	5.14	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131			
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.45*		*8.00*		*93.1*	*70-130*			
Matrix Spike Dup (2412049-MSD1)				**Source: E403180-03**					Prepared: 03/20/24 Analyzed: 03/20/24
Benzene	4.77	0.0250	5.00	ND	95.4	54-133	2.65	20	
Ethylbenzene	5.10	0.0250	5.00	ND	102	61-133	1.79	20	
Toluene	5.00	0.0250	5.00	ND	100	61-130	2.02	20	
o-Xylene	5.05	0.0250	5.00	ND	101	63-131	1.68	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	1.57	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	1.60	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.36*		*8.00*		*91.9*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2412049-BLK1)									Prepared: 03/20/24 Analyzed: 03/20/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.24*		*8.00*		*90.5*	*70-130*			
LCS (2412049-BS2)									Prepared: 03/20/24 Analyzed: 03/20/24
Gasoline Range Organics (C6-C10)	47.7	20.0	50.0		95.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.42*		*8.00*		*92.8*	*70-130*			
Matrix Spike (2412049-MS2)				**Source: E403180-03**					Prepared: 03/20/24 Analyzed: 03/20/24
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.33*		*8.00*		*91.6*	*70-130*			
Matrix Spike Dup (2412049-MSD2)				**Source: E403180-03**					Prepared: 03/20/24 Analyzed: 03/20/24
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.2	70-130	3.07	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.34*		*8.00*		*91.7*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2412065-BLK1)									Prepared: 03/20/24 Analyzed: 03/20/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*43.8*		*50.0*		*87.5*	*50-200*			
LCS (2412065-BS1)									Prepared: 03/20/24 Analyzed: 03/20/24
Diesel Range Organics (C10-C28)	304	25.0	250		122	38-132			
Surrogate: n-Nonane	*48.0*		*50.0*		*95.9*	*50-200*			
Matrix Spike (2412065-MS1)				**Source: E403180-02**					Prepared: 03/20/24 Analyzed: 03/20/24
Diesel Range Organics (C10-C28)	309	25.0	250	ND	124	38-132			
Surrogate: n-Nonane	*47.2*		*50.0*		*94.3*	*50-200*			
Matrix Spike Dup (2412065-MSD1)				**Source: E403180-02**					Prepared: 03/20/24 Analyzed: 03/20/24
Diesel Range Organics (C10-C28)	297	25.0	250	ND	119	38-132	4.09	20	
Surrogate: n-Nonane	*45.1*		*50.0*		*90.3*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	3/21/2024 3:20:35PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2412059-BLK1)									Prepared: 03/20/24 Analyzed: 03/20/24
Chloride	ND	20.0							
LCS (2412059-BS1)									Prepared: 03/20/24 Analyzed: 03/20/24
Chloride	246	20.0	250		98.3	90-110			
Matrix Spike (2412059-MS1)				**Source: E403180-10**					Prepared: 03/20/24 Analyzed: 03/20/24
Chloride	470	200	250	222	99.2	80-120			
Matrix Spike Dup (2412059-MSD1)				**Source: E403180-10**					Prepared: 03/20/24 Analyzed: 03/20/24
Chloride	468	200	250	222	98.7	80-120	0.269	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	03/21/24 15:20

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 2

Client: MACK Energy	Bill To
Project: West Mount #1	Attention: ENERGY STAFFING SERVICES
Project Manager:	Address: 2724 NW COUNTY RD
Address:	City, State, Zip HOBBS, NM 88240
City, State, Zip	Phone: 575-393-9048
Phone:	Email: NATALIE@ENERGYSTAFFINGLLC.COM
Email:	BRITTNEY@ENERGYSTAFFINGLLC.COM
Report due by:	

Lab Use Only: Lab WO# E403180 | Job Number 20046-0001

TAT: 1D | 2D x | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM x | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM x | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	03/18	S	1	SP Comp 112 - 2'	1	x	
				SP Comp 113 - 2'	2		
				SP Comp 114 - 2'	3		
				SP Comp 115 - 2'	4		
				SP Comp 116 - 2'	5		
				SP Comp 117 - 2'	6		
				SP Comp 118 - 2'	7		
				SP Comp 119 - 2'	8		
				SP Comp 120 - 2'	9		
	03/18	S	1	SP Comp 121 - 2'	10	x	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	03/18/24			3-19-24	1226
	3-19-24	1621		3.19.24	1700
	3.19.24	2400		3-20-24	900

Lab Use Only: Received on ice: (Y) / N

T1 | T2 | T3

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Received by OCD: 5/14/2025 8:53:25 AM

Project Information

Chain of Custody

Client: Mack Energy	
Project: West Mono #1	
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO# E403180 Job Number 20046-0001

TAT: 1D | 2D (X) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (X) | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	03/18	S	1	SP Comp 122 - 2'	11	X	
	"	"	"	SP Comp 123 - 2'	12	"	
	"	"	"	SP Comp 124 - 2'	13	"	
	"	"	"	SP Comp 125 - 2'	14	"	
	03/18	S	1	SP Comp 126 - 2'	15	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Juan Solis

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Juan Solis	03/18/24		Michelle Cruz	3-19-24	1226
Michelle Cruz	3-19-24	1621	Andrew Hobbs	3.19.24	1700
Andrew Hobbs	3.19.24	2400	Mary Cruz & Hall	3-20-24	0900

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Envirotech Analytical Laboratory

Printed: 3/20/2024 2:15:13PM

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:	03/20/24 09:00	Work Order ID:	E403180
Phone:	(575) 390-6397	Date Logged In:	03/19/24 16:43	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	03/21/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Time sampled and project manager are not listed on COC by client.

Client Instruction

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

Date

envirotech 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: West Mount #1

Work Order: E404005

Job Number: 20046-0001

Received: 4/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/3/24

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: 4/3/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E404005
Date Received: 4/2/2024 9:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/2/2024 9:00:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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
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Released to Imaging: 7/7/2025 2:18:32 PM

Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/03/24 12:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW Com 30-20'	E404005-01A	Soil	03/28/24	04/02/24	Glass Jar, 2 oz.
SW Com 31-20'	E404005-02A	Soil	03/28/24	04/02/24	Glass Jar, 2 oz.
SW Com 32-20'	E404005-03A	Soil	03/28/24	04/02/24	Glass Jar, 2 oz.
SW Com 33-20'	E404005-04A	Soil	03/28/24	04/02/24	Glass Jar, 2 oz.
SW Com 34-20'	E404005-05A	Soil	03/28/24	04/02/24	Glass Jar, 2 oz.
SW Com 35-20'	E404005-06A	Soil	03/28/24	04/02/24	Glass Jar, 2 oz.
SW Com 36-20'	E404005-07A	Soil	03/28/24	04/02/24	Glass Jar, 2 oz.
SW Com 218-4'	E404005-08A	Soil	03/28/24	04/02/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/3/2024 12:27:41PM

SW Com 30-20'

E404005-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Benzene	ND	0.0250	1	04/02/24	04/02/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/02/24	
Toluene	ND	0.0250	1	04/02/24	04/02/24	
o-Xylene	ND	0.0250	1	04/02/24	04/02/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/02/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.9 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/24	04/02/24	
Surrogate: n-Nonane		*96.4 %*	*50-200*	*04/02/24*	*04/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414019
Chloride	**254**	20.0	1	04/02/24	04/02/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/3/2024 12:27:41PM

SW Com 31-20'

E404005-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Benzene	ND	0.0250	1	04/02/24	04/02/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/02/24	
Toluene	ND	0.0250	1	04/02/24	04/02/24	
o-Xylene	ND	0.0250	1	04/02/24	04/02/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/02/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.7 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.6 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/24	04/02/24	
Surrogate: n-Nonane		*92.9 %*	*50-200*	*04/02/24*	*04/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414019
Chloride	**317**	20.0	1	04/02/24	04/02/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/3/2024 12:27:41PM

SW Com 32-20'

E404005-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Benzene	ND	0.0250	1	04/02/24	04/02/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/02/24	
Toluene	ND	0.0250	1	04/02/24	04/02/24	
o-Xylene	ND	0.0250	1	04/02/24	04/02/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/02/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.3 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/24	04/02/24	
Surrogate: n-Nonane		*96.8 %*	*50-200*	*04/02/24*	*04/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414019
Chloride	**252**	20.0	1	04/02/24	04/02/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/3/2024 12:27:41PM

SW Com 33-20'

E404005-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Benzene	ND	0.0250	1	04/02/24	04/02/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/02/24	
Toluene	ND	0.0250	1	04/02/24	04/02/24	
o-Xylene	ND	0.0250	1	04/02/24	04/02/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/02/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.8 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.5 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/24	04/02/24	
Surrogate: n-Nonane		*96.9 %*	*50-200*	*04/02/24*	*04/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414019
Chloride	**313**	20.0	1	04/02/24	04/02/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/3/2024 12:27:41PM

SW Com 34-20'

E404005-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Benzene	ND	0.0250	1	04/02/24	04/02/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/02/24	
Toluene	ND	0.0250	1	04/02/24	04/02/24	
o-Xylene	ND	0.0250	1	04/02/24	04/02/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/02/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.3 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/24	04/02/24	
Surrogate: n-Nonane		*97.5 %*	*50-200*	*04/02/24*	*04/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414019
Chloride	**249**	20.0	1	04/02/24	04/02/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/3/2024 12:27:41PM

SW Com 35-20'

E404005-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Benzene	ND	0.0250	1	04/02/24	04/02/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/02/24	
Toluene	ND	0.0250	1	04/02/24	04/02/24	
o-Xylene	ND	0.0250	1	04/02/24	04/02/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/02/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.5 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/24	04/02/24	
Surrogate: n-Nonane		*97.9 %*	*50-200*	*04/02/24*	*04/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414019
Chloride	**320**	20.0	1	04/02/24	04/02/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/3/2024 12:27:41PM

SW Com 36-20'

E404005-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Benzene	ND	0.0250	1	04/02/24	04/02/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/02/24	
Toluene	ND	0.0250	1	04/02/24	04/02/24	
o-Xylene	ND	0.0250	1	04/02/24	04/02/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/02/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.6 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/24	04/02/24	
Surrogate: n-Nonane		*98.0 %*	*50-200*	*04/02/24*	*04/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414019
Chloride	**263**	20.0	1	04/02/24	04/02/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/3/2024 12:27:41PM

SW Com 218-4'

E404005-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Benzene	ND	0.0250	1	04/02/24	04/02/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/02/24	
Toluene	ND	0.0250	1	04/02/24	04/02/24	
o-Xylene	ND	0.0250	1	04/02/24	04/02/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/02/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.0 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.7 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/24	04/02/24	
Surrogate: n-Nonane		*98.2 %*	*50-200*	*04/02/24*	*04/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414019
Chloride	**24.7**	20.0	1	04/02/24	04/02/24	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/3/2024 12:27:41PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2414014-BLK1)									Prepared: 04/02/24 Analyzed: 04/02/24
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	*7.26*		*8.00*		*90.7*	*70-130*			
LCS (2414014-BS1)									Prepared: 04/02/24 Analyzed: 04/02/24
Benzene	4.88	0.0250	5.00		97.5	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.2	70-130			
Toluene	4.85	0.0250	5.00		97.1	70-130			
o-Xylene	4.79	0.0250	5.00		95.7	70-130			
p,m-Xylene	9.80	0.0500	10.0		98.0	70-130			
Total Xylenes	14.6	0.0250	15.0		97.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.27*		*8.00*		*90.8*	*70-130*			
Matrix Spike (2414014-MS1)				**Source: E404005-03**					Prepared: 04/02/24 Analyzed: 04/02/24
Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133			
Toluene	5.02	0.0250	5.00	ND	100	61-130			
o-Xylene	4.94	0.0250	5.00	ND	98.9	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.55*		*8.00*		*94.4*	*70-130*			
Matrix Spike Dup (2414014-MSD1)				**Source: E404005-03**					Prepared: 04/02/24 Analyzed: 04/02/24
Benzene	4.98	0.0250	5.00	ND	99.5	54-133	1.37	20	
Ethylbenzene	4.97	0.0250	5.00	ND	99.3	61-133	1.05	20	
Toluene	4.96	0.0250	5.00	ND	99.1	61-130	1.23	20	
o-Xylene	4.91	0.0250	5.00	ND	98.3	63-131	0.603	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	0.976	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.4	63-131	0.853	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.56*		*8.00*		*94.6*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/3/2024 12:27:41PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2414014-BLK1)									Prepared: 04/02/24 Analyzed: 04/02/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.85*		*8.00*		*98.1*	*70-130*			
LCS (2414014-BS2)									Prepared: 04/02/24 Analyzed: 04/02/24
Gasoline Range Organics (C6-C10)	52.7	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.80*		*8.00*		*97.5*	*70-130*			
Matrix Spike (2414014-MS2)				**Source: E404005-03**					Prepared: 04/02/24 Analyzed: 04/02/24
Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.80*		*8.00*		*97.5*	*70-130*			
Matrix Spike Dup (2414014-MSD2)				**Source: E404005-03**					Prepared: 04/02/24 Analyzed: 04/02/24
Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	ND	105	70-130	1.07	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.70*		*8.00*		*96.3*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/3/2024 12:27:41PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2414024-BLK1)									Prepared: 04/02/24 Analyzed: 04/02/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*46.8*		*50.0*		*93.5*	*50-200*			
LCS (2414024-BS1)									Prepared: 04/02/24 Analyzed: 04/02/24
Diesel Range Organics (C10-C28)	347	25.0	250		139	38-132			L5
Surrogate: n-Nonane	*54.6*		*50.0*		*109*	*50-200*			
Matrix Spike (2414024-MS1)				**Source: E404005-03**					Prepared: 04/02/24 Analyzed: 04/02/24
Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	*48.6*		*50.0*		*97.2*	*50-200*			
Matrix Spike Dup (2414024-MSD1)				**Source: E404005-03**					Prepared: 04/02/24 Analyzed: 04/02/24
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	38-132	2.78	20	
Surrogate: n-Nonane	*47.5*		*50.0*		*95.0*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/3/2024 12:27:41PM

Anions by EPA 300.0/9056A

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 (2414019-BLK1)									Prepared: 04/02/24 Analyzed: 04/02/24
Chloride	ND	20.0							
LCS (2414019-BS1)									Prepared: 04/02/24 Analyzed: 04/02/24
Chloride	246	20.0	250		98.3	90-110			
Matrix Spike (2414019-MS1)				**Source: E404005-05**					Prepared: 04/02/24 Analyzed: 04/02/24
Chloride	497	20.0	250	249	99.1	80-120			
Matrix Spike Dup (2414019-MSD1)				**Source: E404005-05**					Prepared: 04/02/24 Analyzed: 04/02/24
Chloride	506	20.0	250	249	103	80-120	1.84	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/03/24 12:27

L5	The LCS spike recovery was outside acceptance limits. The MS and/or MSD is within the LCS acceptance limits.
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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 1

Client:	Mack Energy
Project:	West Mount #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E404005 | Job Number 2004600001

TAT: 1D | 2D (6) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (6) | CO | UT | AZ | TX

Analysis and Method

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	BGDOC NM	BGDOC TX	Remarks
	3/28/24	S	1	SwCom 30-20'	1							6		
				SwCom 31-20'	2									
				SwCom 32-20'	3									
				SwCom 33-20'	4									
				SwCom 34-20'	5									
				SwCom 35-20'	6									
				SwCom 36-20'	7									
	3/28/24	S	1	SwCom 218-4'	8							6		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Jose R Alvarez

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jose R Alvarez	3/28/24	1249		4-1-24	1249
	4-1-24	1800	Andrew Mesa	4-1-24	1715
Andrew Mesa	4-1-24	2230		4-2-24	9:00

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Envirotech Analytical Laboratory

Printed: 4/2/2024 12:28:01PM

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:	04/02/24 09:00	Work Order ID:	E404005
Phone:	(575) 390-6397	Date Logged In:	04/01/24 16:15	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	04/03/24 17:00 (1 day TAT)		

Chain of Custody (COC)		
1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	
Sample Turn Around Time (TAT)		
6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	
Sample Cooler		
7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		
Sample Container		
14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	
Sample Preservation		
21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Project manager and time sampled is not documented on the COC by client.

Client Instruction

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

Date

envirotech 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: West Mount #1

Work Order: E404005

Job Number: 20046-0001

Received: 4/2/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/20/24

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: 5/20/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E404005
Date Received: 4/2/2024 9:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/2/2024 9:00:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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,

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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	05/20/24 15:58

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW Com 30-20'	E404005-01A	Soil	03/28/24	04/02/24	Glass Jar, 2 oz.
SW Com 31-20'	E404005-02A	Soil	03/28/24	04/02/24	Glass Jar, 2 oz.
SW Com 32-20'	E404005-03A	Soil	03/28/24	04/02/24	Glass Jar, 2 oz.
SW Com 33-20'	E404005-04A	Soil	03/28/24	04/02/24	Glass Jar, 2 oz.
SW Com 34-20'	E404005-05A	Soil	03/28/24	04/02/24	Glass Jar, 2 oz.
SW Com 35-20'	E404005-06A	Soil	03/28/24	04/02/24	Glass Jar, 2 oz.
SW Com 36-20'	E404005-07A	Soil	03/28/24	04/02/24	Glass Jar, 2 oz.
SP Com 218-4'	E404005-08A	Soil	03/28/24	04/02/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	5/20/2024 3:58:27PM

SW Com 30-20'

E404005-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Benzene	ND	0.0250	1	04/02/24	04/02/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/02/24	
Toluene	ND	0.0250	1	04/02/24	04/02/24	
o-Xylene	ND	0.0250	1	04/02/24	04/02/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/02/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.9 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/24	04/02/24	
Surrogate: n-Nonane		*96.4 %*	*50-200*	*04/02/24*	*04/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414019
Chloride	**254**	20.0	1	04/02/24	04/02/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	5/20/2024 3:58:27PM

SW Com 31-20'

E404005-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Benzene	ND	0.0250	1	04/02/24	04/02/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/02/24	
Toluene	ND	0.0250	1	04/02/24	04/02/24	
o-Xylene	ND	0.0250	1	04/02/24	04/02/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/02/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.7 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.6 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/24	04/02/24	
Surrogate: n-Nonane		*92.9 %*	*50-200*	*04/02/24*	*04/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414019
Chloride	**317**	20.0	1	04/02/24	04/02/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	5/20/2024 3:58:27PM

SW Com 32-20'

E404005-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Benzene	ND	0.0250	1	04/02/24	04/02/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/02/24	
Toluene	ND	0.0250	1	04/02/24	04/02/24	
o-Xylene	ND	0.0250	1	04/02/24	04/02/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/02/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.3 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/24	04/02/24	
Surrogate: n-Nonane		*96.8 %*	*50-200*	*04/02/24*	*04/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414019
Chloride	**252**	20.0	1	04/02/24	04/02/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	5/20/2024 3:58:27PM

SW Com 33-20'

E404005-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Benzene	ND	0.0250	1	04/02/24	04/02/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/02/24	
Toluene	ND	0.0250	1	04/02/24	04/02/24	
o-Xylene	ND	0.0250	1	04/02/24	04/02/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/02/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.8 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.5 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/24	04/02/24	
Surrogate: n-Nonane		*96.9 %*	*50-200*	*04/02/24*	*04/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414019
Chloride	**313**	20.0	1	04/02/24	04/02/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	5/20/2024 3:58:27PM

SW Com 34-20'

E404005-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Benzene	ND	0.0250	1	04/02/24	04/02/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/02/24	
Toluene	ND	0.0250	1	04/02/24	04/02/24	
o-Xylene	ND	0.0250	1	04/02/24	04/02/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/02/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.3 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/24	04/02/24	
Surrogate: n-Nonane		*97.5 %*	*50-200*	*04/02/24*	*04/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414019
Chloride	**249**	20.0	1	04/02/24	04/02/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	5/20/2024 3:58:27PM

SW Com 35-20'

E404005-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Benzene	ND	0.0250	1	04/02/24	04/02/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/02/24	
Toluene	ND	0.0250	1	04/02/24	04/02/24	
o-Xylene	ND	0.0250	1	04/02/24	04/02/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/02/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.5 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/24	04/02/24	
Surrogate: n-Nonane		*97.9 %*	*50-200*	*04/02/24*	*04/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414019
Chloride	**320**	20.0	1	04/02/24	04/02/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	5/20/2024 3:58:27PM

SW Com 36-20'

E404005-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Benzene	ND	0.0250	1	04/02/24	04/02/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/02/24	
Toluene	ND	0.0250	1	04/02/24	04/02/24	
o-Xylene	ND	0.0250	1	04/02/24	04/02/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/02/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.6 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/24	04/02/24	
Surrogate: n-Nonane		*98.0 %*	*50-200*	*04/02/24*	*04/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414019
Chloride	**263**	20.0	1	04/02/24	04/02/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	5/20/2024 3:58:27PM

SP Com 218-4'

E404005-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Benzene	ND	0.0250	1	04/02/24	04/02/24	
Ethylbenzene	ND	0.0250	1	04/02/24	04/02/24	
Toluene	ND	0.0250	1	04/02/24	04/02/24	
o-Xylene	ND	0.0250	1	04/02/24	04/02/24	
p,m-Xylene	ND	0.0500	1	04/02/24	04/02/24	
Total Xylenes	ND	0.0250	1	04/02/24	04/02/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.0 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414014
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/24	04/02/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.7 %*	*70-130*	*04/02/24*	*04/02/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/24	04/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/24	04/02/24	
Surrogate: n-Nonane		*98.2 %*	*50-200*	*04/02/24*	*04/02/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414019
Chloride	**24.7**	20.0	1	04/02/24	04/02/24	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	5/20/2024 3:58:27PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2414014-BLK1)									Prepared: 04/02/24 Analyzed: 04/02/24
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	*7.26*		*8.00*		*90.7*	*70-130*			
LCS (2414014-BS1)									Prepared: 04/02/24 Analyzed: 04/02/24
Benzene	4.88	0.0250	5.00		97.5	70-130			
Ethylbenzene	4.86	0.0250	5.00		97.2	70-130			
Toluene	4.85	0.0250	5.00		97.1	70-130			
o-Xylene	4.79	0.0250	5.00		95.7	70-130			
p,m-Xylene	9.80	0.0500	10.0		98.0	70-130			
Total Xylenes	14.6	0.0250	15.0		97.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.27*		*8.00*		*90.8*	*70-130*			
Matrix Spike (2414014-MS1)				**Source: E404005-03**					Prepared: 04/02/24 Analyzed: 04/02/24
Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133			
Toluene	5.02	0.0250	5.00	ND	100	61-130			
o-Xylene	4.94	0.0250	5.00	ND	98.9	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.55*		*8.00*		*94.4*	*70-130*			
Matrix Spike Dup (2414014-MSD1)				**Source: E404005-03**					Prepared: 04/02/24 Analyzed: 04/02/24
Benzene	4.98	0.0250	5.00	ND	99.5	54-133	1.37	20	
Ethylbenzene	4.97	0.0250	5.00	ND	99.3	61-133	1.05	20	
Toluene	4.96	0.0250	5.00	ND	99.1	61-130	1.23	20	
o-Xylene	4.91	0.0250	5.00	ND	98.3	63-131	0.603	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	0.976	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.4	63-131	0.853	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.56*		*8.00*		*94.6*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	5/20/2024 3:58:27PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2414014-BLK1)									Prepared: 04/02/24 Analyzed: 04/02/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.85*		*8.00*		*98.1*	*70-130*			
LCS (2414014-BS2)									Prepared: 04/02/24 Analyzed: 04/02/24
Gasoline Range Organics (C6-C10)	52.7	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.80*		*8.00*		*97.5*	*70-130*			
Matrix Spike (2414014-MS2)				**Source: E404005-03**					Prepared: 04/02/24 Analyzed: 04/02/24
Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.80*		*8.00*		*97.5*	*70-130*			
Matrix Spike Dup (2414014-MSD2)				**Source: E404005-03**					Prepared: 04/02/24 Analyzed: 04/02/24
Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	ND	105	70-130	1.07	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.70*		*8.00*		*96.3*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	5/20/2024 3:58:27PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2414024-BLK1)									Prepared: 04/02/24 Analyzed: 04/02/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*46.8*		*50.0*		*93.5*	*50-200*			
LCS (2414024-BS1)									Prepared: 04/02/24 Analyzed: 04/02/24
Diesel Range Organics (C10-C28)	347	25.0	250		139	38-132			L5
Surrogate: n-Nonane	*54.6*		*50.0*		*109*	*50-200*			
Matrix Spike (2414024-MS1)				**Source: E404005-03**					Prepared: 04/02/24 Analyzed: 04/02/24
Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132			
Surrogate: n-Nonane	*48.6*		*50.0*		*97.2*	*50-200*			
Matrix Spike Dup (2414024-MSD1)				**Source: E404005-03**					Prepared: 04/02/24 Analyzed: 04/02/24
Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	38-132	2.78	20	
Surrogate: n-Nonane	*47.5*		*50.0*		*95.0*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	5/20/2024 3:58:27PM

Anions by EPA 300.0/9056A

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 (2414019-BLK1)									Prepared: 04/02/24 Analyzed: 04/02/24
Chloride	ND	20.0							
LCS (2414019-BS1)									Prepared: 04/02/24 Analyzed: 04/02/24
Chloride	246	20.0	250		98.3	90-110			
Matrix Spike (2414019-MS1)				**Source: E404005-05**					Prepared: 04/02/24 Analyzed: 04/02/24
Chloride	497	20.0	250	249	99.1	80-120			
Matrix Spike Dup (2414019-MSD1)				**Source: E404005-05**					Prepared: 04/02/24 Analyzed: 04/02/24
Chloride	506	20.0	250	249	103	80-120	1.84	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	05/20/24 15:58

L5	The LCS spike recovery was outside acceptance limits. The MS and/or MSD is within the LCS acceptance limits.
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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 1

Client:	Mack Energy
Project:	West Mount #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E404005 Job Number 2004600001

TAT: 1D | 2D | 3D | Standard — 2D: 6

EPA Program: CWA | SDWA | RCRA

State: NM | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	3/28/24	S	1	SwCom 30-20'	1	6	
				SwCom 31-20'	2		
				SwCom 32-20'	3		
				SwCom 33-20'	4		
				SwCom 34-20'	5		
				SwCom 35-20'	6		
				SwCom 36-20'	7		
	3/28/24	S	1	SwCom 218-4'	8	6	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Jose R Alvarez

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jose Alvarez	3/28/24	1249		4-1-24	1249
	4.1.24	1800	Andrew Mesa	4-1-24	1715
Andrew Mesa	4-1-24	2230		4.2.24	9:00

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Envirotech Analytical Laboratory

Printed: 4/2/2024 12:28:01PM

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:	04/02/24 09:00	Work Order ID:	E404005
Phone:	(575) 390-6397	Date Logged In:	04/01/24 16:15	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	04/03/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes
2. Does the number of samples per sampling site location match the COC	Yes
3. Were samples dropped off by client or carrier?	Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes

Carrier: Courier

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
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?	No
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
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?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
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:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
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

Comments/Resolution

Project manager and time sampled is not documented on the COC by client.

Client Instruction

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

Date

envirotech 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:	West Mount #1
Work Order:	E404018
Job Number:	20046-0001
Received:	4/4/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/5/24

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: 4/5/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E404018
Date Received: 4/4/2024 7:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/4/2024 7:00:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/05/24 16:05

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
COMP 43 -4'	E404018-01A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 44 -4'	E404018-02A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 45 -4'	E404018-03A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 46 -4'	E404018-04A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 47 -4'	E404018-05A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 48 -4'	E404018-06A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 49 -4'	E404018-07A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 50 -4'	E404018-08A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 51 -4'	E404018-09A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 52 -4'	E404018-10A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 53 -4'	E404018-11A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 54 -4'	E404018-12A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 55 -4'	E404018-13A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 56 -4'	E404018-14A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 57 -4'	E404018-15A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 58 -4'	E404018-16A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 59 -4'	E404018-17A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 60 -4'	E404018-18A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 61 -4'	E404018-19A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.
COMP 62 -4'	E404018-20A	Soil	04/02/24	04/04/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

COMP 46 -4'

E404018-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Benzene	ND	0.0250	1	04/04/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/04/24	
Toluene	ND	0.0250	1	04/04/24	04/04/24	
o-Xylene	ND	0.0250	1	04/04/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.0 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
Surrogate: n-Nonane		*96.2 %*	*50-200*	*04/04/24*	*04/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414059
Chloride	ND	100	5	04/04/24	04/04/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

COMP 47 -4'

E404018-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Benzene	ND	0.0250	1	04/04/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/04/24	
Toluene	ND	0.0250	1	04/04/24	04/04/24	
o-Xylene	ND	0.0250	1	04/04/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.6 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.1 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
Surrogate: n-Nonane		*92.3 %*	*50-200*	*04/04/24*	*04/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414059
Chloride	ND	100	5	04/04/24	04/04/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

COMP 48 -4'

E404018-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Benzene	ND	0.0250	1	04/04/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/04/24	
Toluene	ND	0.0250	1	04/04/24	04/04/24	
o-Xylene	ND	0.0250	1	04/04/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.8 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.9 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
Surrogate: n-Nonane		*95.6 %*	*50-200*	*04/04/24*	*04/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414059
Chloride	ND	100	5	04/04/24	04/04/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

COMP 49 -4'

E404018-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Benzene	ND	0.0250	1	04/04/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/04/24	
Toluene	ND	0.0250	1	04/04/24	04/04/24	
o-Xylene	ND	0.0250	1	04/04/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.3 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.7 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
Surrogate: n-Nonane		*94.0 %*	*50-200*	*04/04/24*	*04/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414059
Chloride	ND	100	5	04/04/24	04/04/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

COMP 50 -4'

E404018-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Benzene	ND	0.0250	1	04/04/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/04/24	
Toluene	ND	0.0250	1	04/04/24	04/04/24	
o-Xylene	ND	0.0250	1	04/04/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.0 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.8 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/04/24	
Surrogate: n-Nonane		*94.5 %*	*50-200*	*04/04/24*	*04/04/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414059
Chloride	**146**	100	5	04/04/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

COMP 51 -4'

E404018-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Benzene	ND	0.0250	1	04/04/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/04/24	
Toluene	ND	0.0250	1	04/04/24	04/04/24	
o-Xylene	ND	0.0250	1	04/04/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.8 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.2 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/05/24	
Surrogate: n-Nonane		*93.1 %*	*50-200*	*04/04/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414059
Chloride	**160**	100	5	04/04/24	04/04/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

COMP 52 -4'

E404018-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Benzene	ND	0.0250	1	04/04/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/04/24	
Toluene	ND	0.0250	1	04/04/24	04/04/24	
o-Xylene	ND	0.0250	1	04/04/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/05/24	
Surrogate: n-Nonane		*89.1 %*	*50-200*	*04/04/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414059
Chloride	**151**	100	5	04/04/24	04/04/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

COMP 53 -4'

E404018-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Benzene	ND	0.0250	1	04/04/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/04/24	
Toluene	ND	0.0250	1	04/04/24	04/04/24	
o-Xylene	ND	0.0250	1	04/04/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.2 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/05/24	
Surrogate: n-Nonane		*94.9 %*	*50-200*	*04/04/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414059
Chloride	**147**	100	5	04/04/24	04/04/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

COMP 54 -4'

E404018-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Benzene	ND	0.0250	1	04/04/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/04/24	
Toluene	ND	0.0250	1	04/04/24	04/04/24	
o-Xylene	ND	0.0250	1	04/04/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.4 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/05/24	
Surrogate: n-Nonane		*93.9 %*	*50-200*	*04/04/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414059
Chloride	ND	100	5	04/04/24	04/04/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

COMP 55 -4'

E404018-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Benzene	ND	0.0250	1	04/04/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/04/24	
Toluene	ND	0.0250	1	04/04/24	04/04/24	
o-Xylene	ND	0.0250	1	04/04/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/05/24	
Surrogate: n-Nonane		*92.2 %*	*50-200*	*04/04/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414059
Chloride	ND	100	5	04/04/24	04/04/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

COMP 56 -4'

E404018-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Benzene	ND	0.0250	1	04/04/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/04/24	
Toluene	ND	0.0250	1	04/04/24	04/04/24	
o-Xylene	ND	0.0250	1	04/04/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.7 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414051
Diesel Range Organics (C10-C28)	**56.8**	25.0	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/05/24	
Surrogate: n-Nonane		*92.1 %*	*50-200*	*04/04/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414059
Chloride	ND	100	5	04/04/24	04/04/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

COMP 57 -4'

E404018-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Benzene	ND	0.0250	1	04/04/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/04/24	
Toluene	ND	0.0250	1	04/04/24	04/04/24	
o-Xylene	ND	0.0250	1	04/04/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.1 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/05/24	
Surrogate: n-Nonane		*97.8 %*	*50-200*	*04/04/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414059
Chloride	ND	100	5	04/04/24	04/04/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

COMP 58 -4'

E404018-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Benzene	ND	0.0250	1	04/04/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/04/24	
Toluene	ND	0.0250	1	04/04/24	04/04/24	
o-Xylene	ND	0.0250	1	04/04/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/05/24	
Surrogate: n-Nonane		*97.7 %*	*50-200*	*04/04/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414059
Chloride	ND	100	5	04/04/24	04/04/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

COMP 59 -4'

E404018-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Benzene	ND	0.0250	1	04/04/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/04/24	
Toluene	ND	0.0250	1	04/04/24	04/04/24	
o-Xylene	ND	0.0250	1	04/04/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.7 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/05/24	
Surrogate: n-Nonane		*94.4 %*	*50-200*	*04/04/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414059
Chloride	ND	100	5	04/04/24	04/04/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

COMP 60 -4'

E404018-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Benzene	ND	0.0250	1	04/04/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/04/24	
Toluene	ND	0.0250	1	04/04/24	04/04/24	
o-Xylene	ND	0.0250	1	04/04/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/05/24	
Surrogate: n-Nonane		*92.3 %*	*50-200*	*04/04/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414059
Chloride	ND	100	5	04/04/24	04/04/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

COMP 61 -4'

E404018-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Benzene	ND	0.0250	1	04/04/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/04/24	
Toluene	ND	0.0250	1	04/04/24	04/04/24	
o-Xylene	ND	0.0250	1	04/04/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.4 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/05/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*04/04/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414059
Chloride	ND	100	5	04/04/24	04/04/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

COMP 62 -4'

E404018-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Benzene	ND	0.0250	1	04/04/24	04/04/24	
Ethylbenzene	ND	0.0250	1	04/04/24	04/04/24	
Toluene	ND	0.0250	1	04/04/24	04/04/24	
o-Xylene	ND	0.0250	1	04/04/24	04/04/24	
p,m-Xylene	ND	0.0500	1	04/04/24	04/04/24	
Total Xylenes	ND	0.0250	1	04/04/24	04/04/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.7 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414049
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/04/24	04/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*	*70-130*	*04/04/24*	*04/04/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414051
Diesel Range Organics (C10-C28)	ND	25.0	1	04/04/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/04/24	04/05/24	
Surrogate: n-Nonane		*96.8 %*	*50-200*	*04/04/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2414059
Chloride	**148**	100	5	04/04/24	04/04/24	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2414049-BLK1)									Prepared: 04/04/24 Analyzed: 04/04/24
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	*7.65*		*8.00*		*95.7*	*70-130*			
LCS (2414049-BS1)									Prepared: 04/04/24 Analyzed: 04/05/24
Benzene	5.00	0.0250	5.00		100	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.6	70-130			
Toluene	5.00	0.0250	5.00		100	70-130			
o-Xylene	4.95	0.0250	5.00		99.0	70-130			
p,m-Xylene	9.99	0.0500	10.0		99.9	70-130			
Total Xylenes	14.9	0.0250	15.0		99.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.74*		*8.00*		*96.7*	*70-130*			
Matrix Spike (2414049-MS1)				**Source: E404018-02**					Prepared: 04/04/24 Analyzed: 04/04/24
Benzene	5.22	0.0250	5.00	ND	104	54-133			
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133			
Toluene	5.21	0.0250	5.00	ND	104	61-130			
o-Xylene	5.17	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.69*		*8.00*		*96.1*	*70-130*			
Matrix Spike Dup (2414049-MSD1)				**Source: E404018-02**					Prepared: 04/04/24 Analyzed: 04/05/24
Benzene	5.72	0.0250	5.00	ND	114	54-133	9.17	20	
Ethylbenzene	5.53	0.0250	5.00	ND	111	61-133	8.57	20	
Toluene	5.70	0.0250	5.00	ND	114	61-130	8.92	20	
o-Xylene	5.66	0.0250	5.00	ND	113	63-131	9.16	20	
p,m-Xylene	11.3	0.0500	10.0	ND	113	63-131	8.52	20	
Total Xylenes	17.0	0.0250	15.0	ND	113	63-131	8.73	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.70*		*8.00*		*96.2*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2414049-BLK1)									Prepared: 04/04/24 Analyzed: 04/04/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.21*		*8.00*		*90.1*	*70-130*			
LCS (2414049-BS2)									Prepared: 04/04/24 Analyzed: 04/04/24
Gasoline Range Organics (C6-C10)	48.9	20.0	50.0		97.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.40*		*8.00*		*92.5*	*70-130*			
Matrix Spike (2414049-MS2)				**Source: E404018-02**					Prepared: 04/04/24 Analyzed: 04/05/24
Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.40*		*8.00*		*92.5*	*70-130*			
Matrix Spike Dup (2414049-MSD2)				**Source: E404018-02**					Prepared: 04/04/24 Analyzed: 04/05/24
Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.3	70-130	14.9	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.33*		*8.00*		*91.6*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2414051-BLK1)									Prepared: 04/04/24 Analyzed: 04/04/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*48.2*		*50.0*		*96.4*	*50-200*			
LCS (2414051-BS1)									Prepared: 04/04/24 Analyzed: 04/04/24
Diesel Range Organics (C10-C28)	250	25.0	250		99.9	38-132			
Surrogate: n-Nonane	*48.3*		*50.0*		*96.7*	*50-200*			
Matrix Spike (2414051-MS1)				**Source: E404018-05**					Prepared: 04/04/24 Analyzed: 04/04/24
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	*49.1*		*50.0*		*98.3*	*50-200*			
Matrix Spike Dup (2414051-MSD1)				**Source: E404018-05**					Prepared: 04/04/24 Analyzed: 04/04/24
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132	2.86	20	
Surrogate: n-Nonane	*47.6*		*50.0*		*95.3*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/5/2024 4:05:17PM

Anions by EPA 300.0/9056A

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 (2414059-BLK1)									Prepared: 04/04/24 Analyzed: 04/04/24
Chloride	ND	20.0							
LCS (2414059-BS1)									Prepared: 04/04/24 Analyzed: 04/04/24
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2414059-MS1)				**Source: E404018-08**					Prepared: 04/04/24 Analyzed: 04/04/24
Chloride	382	100	250	146	94.6	80-120			
Matrix Spike Dup (2414059-MSD1)				**Source: E404018-08**					Prepared: 04/04/24 Analyzed: 04/04/24
Chloride	400	100	250	146	102	80-120	4.53	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/05/24 16:05

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.

Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 2

Client:	MACK ENERGY
Project:	WEST MOUNT #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO#: E 404018 | Job Number: 20046-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	4/2/24	S	1	COMP 43 - 4'	1	X	
				COMP 44 - 4'	2		
				COMP 45 - 4'	3		
				COMP 46 - 4'	4		
				COMP 47 - 4'	5		
				COMP 48 - 4'	6		
				COMP 49 - 4'	7		
				COMP 50 - 4'	8		
				COMP 51 - 4'	9		
				COMP 52 - 4'	10		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/2/24			4-3-24	1256
	4-3-24	1552		4-3-24	1700
Andrew Morales	4-3-24	2400		4/4/24	0700

Lab Use Only
Received on ice: (Y)/ N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 2 of 2

Client:	MACK ENERGY
Project:	WEST MOUNT #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E404018 | Job Number 20046-0001

TAT: 1D | 2D (Y) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (X) | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	4/2/24	S	1	COMP 53 - 4'	11	X	
				COMP 54 - 4'	12		
				COMP 55 - 4'	13		
				COMP 56 - 4'	14		
				COMP 57 - 4'	15		
				COMP 58 - 4'	16		
				COMP 59 - 4'	17		
				COMP 60 - 4'	18		
				COMP 61 - 4'	19		
	4/2/24	S	1	COM 62 - 4'	20	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVAS

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/2/24			4-3-24	1256
	4-3-24	1552		4-3-24	1700
	4-3-24	2400		4/4/24	0700

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Envirotech Analytical Laboratory

Printed: 4/4/2024 8:29:23AM

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:	04/04/24 07:00	Work Order ID:	E404018
Phone:	(575) 390-6397	Date Logged In:	04/03/24 16:35	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	04/05/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
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?	No
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
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?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
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:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
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

Comments/Resolution

Project Manager and Time sampled not documented on the COC by client

Client Instruction

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

envirotech Inc.

Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 2

Client:	MACK ENERGY
Project:	WEST MOUNT #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO#: E 404018 | Job Number: 20046-0001

TAT: 1D | 2D (X) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (X) | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM (X) | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
	~~4/4/24~~	S	1	~~COMP 43 -4'~~	1	Cancelled per D.Montanez 4/4/24
				~~COMP 44 -4'~~	2	
				~~COMP 45 -4'~~	3	
				COMP 46 -4'	4	
				COMP 47 -4'	5	
				COMP 48 -4'	6	
				COMP 49 -4'	7	
				COMP 50 -4'	8	
				COMP 51 -4'	9	
				COMP 52 -4'	10	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/2/24			4-3-24	1256
Relinquished by: (Signature)	4-3-24	1552	Received by: (Signature)	4-3-24	1700
Relinquished by: (Signature)	4-3-24	2400	Received by: (Signature)	4/4/24	0700

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 2 of 2

Client:	MACK ENERGY
Project:	WEST MOMNT #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO# E404018 | Job Number 20046-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method

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	BGDOC NM	BGDOC TX	Remarks
	4/2/24	S	1	COMP 53 - 4'	11							X		
				COMP 54 - 4'	12									
				COMP 55 - 4'	13									
				COMP 56 - 4'	14									
				COMP 57 - 4'	15									
				COMP 58 - 4'	16									
				COMP 59 - 4'	17									
				COMP 60 - 4'	18									
				COMP 61 - 4'	19									
	4/2/24	S	1	COM 62 - 4'	20							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/2/24			4-3-24	1256
	4-3-24	1552		4-3-24	1700
	4-3-24	2400		4/4/24	0700

Lab Use Only

Received on ice: (Y) N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

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 #1
Work Order:	E404033
Job Number:	20046-0001
Received:	4/5/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/8/24

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: 4/8/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E404033
Date Received: 4/5/2024 6:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/5/2024 6:30:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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,

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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/08/24 17:21

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
COMP 63 -4'	E404033-01A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 64 -4'	E404033-02A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 65 -4'	E404033-03A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 66 -4'	E404033-04A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 67 -4'	E404033-05A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 68 -4'	E404033-06A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 69 -4'	E404033-07A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 70 -4'	E404033-08A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 71 -4'	E404033-09A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 72 -4'	E404033-10A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 73 -4'	E404033-11A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 74 -4'	E404033-12A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 75 -4'	E404033-13A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 76 -4'	E404033-14A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 77 -4'	E404033-15A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 78 -4'	E404033-16A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 79 -4'	E404033-17A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 80 -4'	E404033-18A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 81 -8'	E404033-19A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 82 -8'	E404033-20A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 83 -8'	E404033-21A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 84 -8'	E404033-22A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 85 -8'	E404033-23A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.
COMP 86 -8'	E404033-24A	Soil	04/03/24	04/05/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 63 -4'

E404033-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.6 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.8 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/05/24	
Surrogate: n-Nonane		*91.6 %*	*50-200*	*04/05/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	**145**	100	5	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 64 -4'

E404033-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.0 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.2 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/05/24	
Surrogate: n-Nonane		*89.2 %*	*50-200*	*04/05/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	**144**	100	5	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 65 -4'

E404033-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.4 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.9 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/05/24	
Surrogate: n-Nonane		*93.3 %*	*50-200*	*04/05/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	**140**	100	5	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 66 -4'

E404033-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.6 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/05/24	
Surrogate: n-Nonane		*90.7 %*	*50-200*	*04/05/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	ND	100	5	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 67 -4'

E404033-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.2 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.5 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/05/24	
Surrogate: n-Nonane		*89.3 %*	*50-200*	*04/05/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	ND	100	5	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 68 -4'

E404033-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.2 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.1 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/05/24	
Surrogate: n-Nonane		*90.4 %*	*50-200*	*04/05/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	ND	100	5	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 69 -4'

E404033-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.0 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/05/24	
Surrogate: n-Nonane		*90.9 %*	*50-200*	*04/05/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	**142**	100	5	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 70 -4'

E404033-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.9 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.0 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	**63.5**	25.0	1	04/05/24	04/05/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/05/24	
Surrogate: n-Nonane		*96.9 %*	*50-200*	*04/05/24*	*04/05/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	ND	100	5	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 71 -4'

E404033-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.6 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.7 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	**64.6**	25.0	1	04/05/24	04/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/06/24	
Surrogate: n-Nonane		*96.0 %*	*50-200*	*04/05/24*	*04/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	ND	100	5	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 72 -4'

E404033-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.1 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.3 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	**63.4**	25.0	1	04/05/24	04/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/06/24	
Surrogate: n-Nonane		*97.1 %*	*50-200*	*04/05/24*	*04/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	ND	100	5	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 73 -4'

E404033-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.4 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.3 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/06/24	
Surrogate: n-Nonane		*95.0 %*	*50-200*	*04/05/24*	*04/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	ND	100	5	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 74 -4'

E404033-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.4 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/06/24	
Surrogate: n-Nonane		*94.1 %*	*50-200*	*04/05/24*	*04/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	ND	100	5	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 75 -4'

E404033-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.5 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/06/24	
Surrogate: n-Nonane		*86.7 %*	*50-200*	*04/05/24*	*04/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	ND	100	5	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 76 -4'

E404033-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.0 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/06/24	
Surrogate: n-Nonane		*92.7 %*	*50-200*	*04/05/24*	*04/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	ND	100	5	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 77 -4'

E404033-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.2 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.7 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/06/24	
Surrogate: n-Nonane		*91.0 %*	*50-200*	*04/05/24*	*04/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	ND	100	5	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 78 -4'

E404033-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.9 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/06/24	
Surrogate: n-Nonane		*100 %*	*50-200*	*04/05/24*	*04/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	ND	100	5	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 79 -4'

E404033-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.2 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/06/24	
Surrogate: n-Nonane		*94.9 %*	*50-200*	*04/05/24*	*04/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	ND	100	5	04/05/24	04/06/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 80 -4'

E404033-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.2 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.3 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/06/24	
Surrogate: n-Nonane		*91.3 %*	*50-200*	*04/05/24*	*04/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	ND	100	5	04/05/24	04/06/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 81 -8'

E404033-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.4 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.1 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/06/24	
Surrogate: n-Nonane		*91.2 %*	*50-200*	*04/05/24*	*04/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	**132**	100	5	04/05/24	04/06/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 82 -8'

E404033-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Benzene	ND	0.0250	1	04/05/24	04/06/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/06/24	
Toluene	ND	0.0250	1	04/05/24	04/06/24	
o-Xylene	ND	0.0250	1	04/05/24	04/06/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/06/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/06/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.2 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2414071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/06/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.9 %*	*70-130*	*04/05/24*	*04/06/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2414068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/06/24	
Surrogate: n-Nonane		*94.1 %*	*50-200*	*04/05/24*	*04/06/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: WF			Batch: 2414066
Chloride	**123**	100	5	04/05/24	04/06/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 83 -8'

E404033-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414072
Benzene	ND	0.0250	1	04/05/24	04/05/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/05/24	
Toluene	ND	0.0250	1	04/05/24	04/05/24	
o-Xylene	ND	0.0250	1	04/05/24	04/05/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/05/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/05/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.4 %*	*70-130*	*04/05/24*	*04/05/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414072
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.0 %*	*70-130*	*04/05/24*	*04/05/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2414069
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/08/24	
Surrogate: n-Nonane		*82.9 %*	*50-200*	*04/05/24*	*04/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2414065
Chloride	ND	200	10	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 84 -8'

E404033-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414072
Benzene	ND	0.0250	1	04/05/24	04/05/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/05/24	
Toluene	ND	0.0250	1	04/05/24	04/05/24	
o-Xylene	ND	0.0250	1	04/05/24	04/05/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/05/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/05/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.3 %*	*70-130*	*04/05/24*	*04/05/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414072
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*70-130*	*04/05/24*	*04/05/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2414069
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/08/24	
Surrogate: n-Nonane		*79.9 %*	*50-200*	*04/05/24*	*04/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2414065
Chloride	ND	200	10	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 85 -8'

E404033-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414072
Benzene	ND	0.0250	1	04/05/24	04/05/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/05/24	
Toluene	ND	0.0250	1	04/05/24	04/05/24	
o-Xylene	ND	0.0250	1	04/05/24	04/05/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/05/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/05/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.0 %*	*70-130*	*04/05/24*	*04/05/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414072
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*04/05/24*	*04/05/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2414069
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/08/24	
Surrogate: n-Nonane		*81.9 %*	*50-200*	*04/05/24*	*04/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2414065
Chloride	ND	200	10	04/05/24	04/05/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

COMP 86 -8'

E404033-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2414072
Benzene	ND	0.0250	1	04/05/24	04/05/24	
Ethylbenzene	ND	0.0250	1	04/05/24	04/05/24	
Toluene	ND	0.0250	1	04/05/24	04/05/24	
o-Xylene	ND	0.0250	1	04/05/24	04/05/24	
p,m-Xylene	ND	0.0500	1	04/05/24	04/05/24	
Total Xylenes	ND	0.0250	1	04/05/24	04/05/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.6 %*	*70-130*	*04/05/24*	*04/05/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2414072
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/05/24	04/05/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*04/05/24*	*04/05/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2414069
Diesel Range Organics (C10-C28)	ND	25.0	1	04/05/24	04/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/05/24	04/08/24	
Surrogate: n-Nonane		*82.9 %*	*50-200*	*04/05/24*	*04/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2414065
Chloride	**103**	100	5	04/05/24	04/05/24	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2414071-BLK1)									Prepared: 04/05/24 Analyzed: 04/06/24
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	*7.74*		*8.00*		*96.7*	*70-130*			
LCS (2414071-BS1)									Prepared: 04/05/24 Analyzed: 04/06/24
Benzene	5.05	0.0250	5.00		101	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.01	0.0250	5.00		100	70-130			
o-Xylene	4.96	0.0250	5.00		99.2	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.77*		*8.00*		*97.2*	*70-130*			
Matrix Spike (2414071-MS1)				**Source: E404033-10**					Prepared: 04/05/24 Analyzed: 04/06/24
Benzene	5.31	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.26	0.0250	5.00	ND	105	61-133			
Toluene	5.27	0.0250	5.00	ND	105	61-130			
o-Xylene	5.23	0.0250	5.00	ND	105	63-131			
p,m-Xylene	10.6	0.0500	10.0	ND	106	63-131			
Total Xylenes	15.8	0.0250	15.0	ND	105	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.79*		*8.00*		*97.4*	*70-130*			
Matrix Spike Dup (2414071-MSD1)				**Source: E404033-10**					Prepared: 04/05/24 Analyzed: 04/06/24
Benzene	5.38	0.0250	5.00	ND	108	54-133	1.24	20	
Ethylbenzene	5.35	0.0250	5.00	ND	107	61-133	1.78	20	
Toluene	5.35	0.0250	5.00	ND	107	61-130	1.53	20	
o-Xylene	5.33	0.0250	5.00	ND	107	63-131	1.90	20	
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131	1.75	20	
Total Xylenes	16.1	0.0250	15.0	ND	107	63-131	1.80	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.79*		*8.00*		*97.4*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2414072-BLK1)									Prepared: 04/05/24 Analyzed: 04/05/24
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	*7.71*		*8.00*		*96.4*	*70-130*			
LCS (2414072-BS1)									Prepared: 04/05/24 Analyzed: 04/05/24
Benzene	5.31	0.0250	5.00		106	70-130			
Ethylbenzene	5.16	0.0250	5.00		103	70-130			
Toluene	5.30	0.0250	5.00		106	70-130			
o-Xylene	5.24	0.0250	5.00		105	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.8	0.0250	15.0		105	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.82*		*8.00*		*97.8*	*70-130*			
Matrix Spike (2414072-MS1)				**Source: E404034-05**					Prepared: 04/05/24 Analyzed: 04/05/24
Benzene	6.57	0.0250	5.00	1.68	97.8	54-133			
Ethylbenzene	8.02	0.0250	5.00	3.64	87.7	61-133			
Toluene	17.7	0.0250	5.00	14.5	63.9	61-130			
o-Xylene	11.5	0.0250	5.00	7.63	78.0	63-131			
p,m-Xylene	27.8	0.0500	10.0	21.1	66.1	63-131			
Total Xylenes	39.3	0.0250	15.0	28.8	70.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*8.56*		*8.00*		*107*	*70-130*			
Matrix Spike Dup (2414072-MSD1)				**Source: E404034-05**					Prepared: 04/05/24 Analyzed: 04/05/24
Benzene	5.92	0.0250	5.00	1.68	84.8	54-133	10.4	20	
Ethylbenzene	7.46	0.0250	5.00	3.64	76.3	61-133	7.32	20	
Toluene	17.9	0.0250	5.00	14.5	67.7	61-130	1.09	20	
o-Xylene	11.3	0.0250	5.00	7.63	74.1	63-131	1.72	20	
p,m-Xylene	28.0	0.0500	10.0	21.1	68.6	63-131	0.906	20	
Total Xylenes	39.3	0.0250	15.0	28.8	70.4	63-131	0.143	20	
Surrogate: 4-Bromochlorobenzene-PID	*8.58*		*8.00*		*107*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2414071-BLK1)									Prepared: 04/05/24 Analyzed: 04/06/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.64*		*8.00*		*95.5*	*70-130*			
LCS (2414071-BS2)									Prepared: 04/05/24 Analyzed: 04/06/24
Gasoline Range Organics (C6-C10)	44.4	20.0	50.0		88.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.67*		*8.00*		*95.8*	*70-130*			
Matrix Spike (2414071-MS2)				**Source: E404033-10**					Prepared: 04/05/24 Analyzed: 04/06/24
Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.69*		*8.00*		*96.1*	*70-130*			
Matrix Spike Dup (2414071-MSD2)				**Source: E404033-10**					Prepared: 04/05/24 Analyzed: 04/06/24
Gasoline Range Organics (C6-C10)	52.8	20.0	50.0	ND	106	70-130	5.81	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.68*		*8.00*		*96.0*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2414072-BLK1)									Prepared: 04/05/24 Analyzed: 04/05/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.20*		*8.00*		*90.1*	*70-130*			
LCS (2414072-BS2)									Prepared: 04/05/24 Analyzed: 04/05/24
Gasoline Range Organics (C6-C10)	45.5	20.0	50.0		91.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.38*		*8.00*		*92.2*	*70-130*			
Matrix Spike (2414072-MS2)				**Source: E404034-05**					Prepared: 04/05/24 Analyzed: 04/05/24
Gasoline Range Organics (C6-C10)	235	20.0	50.0	224	21.5	70-130			M4
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		*8.00*		*94.8*	*70-130*			
Matrix Spike Dup (2414072-MSD2)				**Source: E404034-05**					Prepared: 04/05/24 Analyzed: 04/05/24
Gasoline Range Organics (C6-C10)	247	20.0	50.0	224	44.9	70-130	4.87	20	M4
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.72*		*8.00*		*96.5*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2414068-BLK1)									Prepared: 04/05/24 Analyzed: 04/05/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*47.6*		*50.0*		*95.1*	*50-200*			
LCS (2414068-BS1)									Prepared: 04/05/24 Analyzed: 04/05/24
Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	*50.0*		*50.0*		*100*	*50-200*			
Matrix Spike (2414068-MS1)				**Source: E404033-05**					Prepared: 04/05/24 Analyzed: 04/05/24
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	*47.7*		*50.0*		*95.5*	*50-200*			
Matrix Spike Dup (2414068-MSD1)				**Source: E404033-05**					Prepared: 04/05/24 Analyzed: 04/05/24
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132	3.89	20	
Surrogate: n-Nonane	*47.6*		*50.0*		*95.3*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2414069-BLK1)									Prepared: 04/05/24 Analyzed: 04/08/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*40.5*		*50.0*		*81.0*	*50-200*			
LCS (2414069-BS1)									Prepared: 04/05/24 Analyzed: 04/08/24
Diesel Range Organics (C10-C28)	250	25.0	250		99.9	38-132			
Surrogate: n-Nonane	*43.9*		*50.0*		*87.8*	*50-200*			
Matrix Spike (2414069-MS1)				**Source: E404022-04**					Prepared: 04/05/24 Analyzed: 04/08/24
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.7	38-132			
Surrogate: n-Nonane	*43.9*		*50.0*		*87.7*	*50-200*			
Matrix Spike Dup (2414069-MSD1)				**Source: E404022-04**					Prepared: 04/05/24 Analyzed: 04/08/24
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132	3.45	20	
Surrogate: n-Nonane	*44.5*		*50.0*		*89.0*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2414065-BLK1)									Prepared: 04/05/24 Analyzed: 04/05/24
Chloride	ND	20.0							
LCS (2414065-BS1)									Prepared: 04/05/24 Analyzed: 04/05/24
Chloride	249	20.0	250		99.6	90-110			
Matrix Spike (2414065-MS1)				**Source: E404031-01**					Prepared: 04/05/24 Analyzed: 04/05/24
Chloride	598	40.0	250	302	119	80-120			
Matrix Spike Dup (2414065-MSD1)				**Source: E404031-01**					Prepared: 04/05/24 Analyzed: 04/05/24
Chloride	572	40.0	250	302	108	80-120	4.54	20	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/8/2024 5:21:51PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2414066-BLK1)									Prepared: 04/05/24 Analyzed: 04/05/24
Chloride	ND	20.0							
LCS (2414066-BS1)									Prepared: 04/05/24 Analyzed: 04/05/24
Chloride	249	20.0	250		99.5	90-110			
Matrix Spike (2414066-MS1)				**Source: E404033-05**					Prepared: 04/05/24 Analyzed: 04/05/24
Chloride	296	100	250	ND	118	80-120			
Matrix Spike Dup (2414066-MSD1)				**Source: E404033-05**					Prepared: 04/05/24 Analyzed: 04/05/24
Chloride	296	100	250	ND	119	80-120	0.189	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/08/24 17:21

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 3

Client:	MACK ENERGY
Project:	WEST MOUNT #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention:	ENERGY STAFFING SERVICES
Address:	2724 NW COUNTY RD
City, State, Zip	HOBBS, NM 88240
Phone:	575-393-9048
Email:	NATALIE@ENERGYSTAFFINGLLC.COM
	BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO#: E404033 | Job Number: 20046-0001

TAT

1D	2D	3D	Standard
	X		

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Analysis and Method

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	BGDOC NM	BGDOC TX	Remarks
	4/3/24	S	1	COMP 63-4'	1							X		
				COMP 64-4'	2									
				COMP 65-4'	3									
				COMP 66-4'	4									
				COMP 67-4'	5									
				COMP 68-4'	6									
				COMP 69-4'	7									
				COMP 70-4'	8									
				COMP 71-4'	9									
	4/3/24	S	1	COMP 72-4'	10							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/3/24			4-4-24	1245
	4-4-24	1547		4-4-24	1730
	4-4-24	2330		4/5/24	0630

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 2 of 3

Client:	MACK ENERGY
Project:	WEST MOUNT #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E404033 Job Number 20046-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	4/3/24	S	1	COMP 73-4'	11	X	
				COMP 74-4'	12		
				COMP 75-4'	13		
				COMP 76-4'	14		
				COMP 78-4'	15		
				COMP 78-4'	16		
				COMP 79-4'	17		
				COMP 80-4'	18		
				COMP 81-8'	19		
	4/3/24	S	1	COMP 82-8'	20	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/3/24			4-4-24	1245
	4-4-24	1547		4-4-24	1730
	4-4-24	2330		4/5/24	0630

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 3 of 3

Client:	MACK ENERGY
Project:	WEST MOUNT #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E404033 Job Number 20046-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

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	BGDOC NM	BGDOC TX	Remarks
	4/3/24	S	1	COMP 83 -8'	21							X		
	(	(	(	COMP 84 -8'	22							(		
	(	(	(	COMP 85 -8'	23							(		
	4/3/24	S	1	COMP 86 -8'	24							+		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/3/24		Michelle Garcia	4-4-24	1245
Michelle Garcia	4-4-24	1547	Andrew Hobbs	4-4-24	1730
Andrew Hobbs	4-4-24	2330		4/5/24	0630

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Envirotech Analytical Laboratory

Printed: 4/5/2024 9:58:54AM

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:	04/05/24 06:30	Work Order ID:	E404033
Phone:	(575) 390-6397	Date Logged In:	04/04/24 15:35	Logged In By:	Angelina Pineda
Email:	Natalie@energystaffingllc.com	Due Date:	04/08/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Project Manager and Time sampled not documented on the COC by client

Client Instruction

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

Date

envirotech 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: West Mount #1

Work Order: E404045

Job Number: 20046-0001

Received: 4/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/9/24

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: 4/9/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E404045
Date Received: 4/8/2024 6:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/8/2024 6:30:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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
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- COMP 97-8’ 16
- COMP 98-8’ 17
- COMP 99-8’ 18
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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/09/24 15:37

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
COMP 87-8'	E404045-01A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 88-8'	E404045-02A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 89-8'	E404045-03A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 90-8'	E404045-04A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 91-8'	E404045-05A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 92-8'	E404045-06A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 93-8'	E404045-07A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 94-8'	E404045-08A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 95-8'	E404045-09A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 96-8'	E404045-10A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 97-8'	E404045-11A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 98-8'	E404045-12A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 99-8'	E404045-13A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 100-8'	E404045-14A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 101-8'	E404045-15A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 102-8'	E404045-16A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 103-8'	E404045-17A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 104-8'	E404045-18A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 105-8'	E404045-19A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 106-8'	E404045-20A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 107-8'	E404045-21A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 108-8'	E404045-22A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 109-8'	E404045-23A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.
COMP 110-8'	E404045-24A	Soil	04/04/24	04/08/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 87-8'

E404045-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*98.0 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.5 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/08/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*04/08/24*	*04/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	**41.9**	40.0	2	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 88-8'

E404045-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*99.2 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.0 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/08/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*04/08/24*	*04/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	ND	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 89-8'

E404045-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.3 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.6 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/08/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*04/08/24*	*04/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	ND	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 90-8'

E404045-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.6 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.1 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/08/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*04/08/24*	*04/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	ND	40.0	2	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 91-8'

E404045-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.2 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/08/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*04/08/24*	*04/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	ND	40.0	2	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 92-8'

E404045-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.0 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.1 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/08/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*04/08/24*	*04/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	ND	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 93-8'

E404045-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.8 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	**66.5**	25.0	1	04/08/24	04/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/08/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*04/08/24*	*04/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	ND	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 94-8'

E404045-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.3 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	**68.9**	25.0	1	04/08/24	04/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/08/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*04/08/24*	*04/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	ND	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 95-8'

E404045-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.0 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/09/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*04/08/24*	*04/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	**109**	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 96-8'

E404045-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*97.0 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.2 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/09/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*04/08/24*	*04/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	**106**	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 97-8'

E404045-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.4 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/09/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*04/08/24*	*04/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	**129**	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 98-8'

E404045-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.6 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/09/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*04/08/24*	*04/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	ND	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 99-8'

E404045-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.6 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.9 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/09/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*04/08/24*	*04/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	ND	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 100-8'

E404045-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.3 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/09/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*04/08/24*	*04/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	**104**	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 101-8'

E404045-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/09/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/09/24	
Toluene	ND	0.0250	1	04/08/24	04/09/24	
o-Xylene	ND	0.0250	1	04/08/24	04/09/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/09/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/09/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.7 %*	*70-130*	*04/08/24*	*04/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.0 %*	*70-130*	*04/08/24*	*04/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	**67.1**	25.0	1	04/08/24	04/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/09/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*04/08/24*	*04/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	ND	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 102-8'

E404045-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/09/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/09/24	
Toluene	ND	0.0250	1	04/08/24	04/09/24	
o-Xylene	ND	0.0250	1	04/08/24	04/09/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/09/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/09/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*04/08/24*	*04/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*04/08/24*	*04/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/09/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*04/08/24*	*04/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	ND	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 103-8'

E404045-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/09/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/09/24	
Toluene	ND	0.0250	1	04/08/24	04/09/24	
o-Xylene	ND	0.0250	1	04/08/24	04/09/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/09/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/09/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*04/08/24*	*04/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.9 %*	*70-130*	*04/08/24*	*04/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/09/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*04/08/24*	*04/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	ND	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 104-8'

E404045-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/09/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/09/24	
Toluene	ND	0.0250	1	04/08/24	04/09/24	
o-Xylene	ND	0.0250	1	04/08/24	04/09/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/09/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/09/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*04/08/24*	*04/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*04/08/24*	*04/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/09/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*04/08/24*	*04/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	ND	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 105-8'

E404045-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/09/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/09/24	
Toluene	ND	0.0250	1	04/08/24	04/09/24	
o-Xylene	ND	0.0250	1	04/08/24	04/09/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/09/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/09/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*04/08/24*	*04/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*04/08/24*	*04/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/09/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*04/08/24*	*04/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	ND	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 106-8'

E404045-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Benzene	ND	0.0250	1	04/08/24	04/09/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/09/24	
Toluene	ND	0.0250	1	04/08/24	04/09/24	
o-Xylene	ND	0.0250	1	04/08/24	04/09/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/09/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/09/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*04/08/24*	*04/09/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415005
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.4 %*	*70-130*	*04/08/24*	*04/09/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415001
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/09/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*04/08/24*	*04/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415003
Chloride	ND	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 107-8'

E404045-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2415006
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: Bromofluorobenzene		*86.8 %*	*70-130*	*04/08/24*	*04/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*04/08/24*	*04/08/24*	
Surrogate: Toluene-d8		*95.3 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2415006
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: Bromofluorobenzene		*86.8 %*	*70-130*	*04/08/24*	*04/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*04/08/24*	*04/08/24*	
Surrogate: Toluene-d8		*95.3 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415002
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/09/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*04/08/24*	*04/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415004
Chloride	ND	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 108-8'

E404045-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2415006
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: Bromofluorobenzene		*88.1 %*	*70-130*	*04/08/24*	*04/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*04/08/24*	*04/08/24*	
Surrogate: Toluene-d8		*92.8 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2415006
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: Bromofluorobenzene		*88.1 %*	*70-130*	*04/08/24*	*04/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*04/08/24*	*04/08/24*	
Surrogate: Toluene-d8		*92.8 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415002
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/09/24	
Surrogate: n-Nonane		*110 %*	*50-200*	*04/08/24*	*04/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415004
Chloride	ND	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 109-8'

E404045-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2415006
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: Bromofluorobenzene		*88.3 %*	*70-130*	*04/08/24*	*04/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*70-130*	*04/08/24*	*04/08/24*	
Surrogate: Toluene-d8		*96.0 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2415006
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: Bromofluorobenzene		*88.3 %*	*70-130*	*04/08/24*	*04/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*70-130*	*04/08/24*	*04/08/24*	
Surrogate: Toluene-d8		*96.0 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415002
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/09/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*04/08/24*	*04/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415004
Chloride	ND	100	5	04/08/24	04/08/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

COMP 110-8'

E404045-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2415006
Benzene	ND	0.0250	1	04/08/24	04/08/24	
Ethylbenzene	ND	0.0250	1	04/08/24	04/08/24	
Toluene	ND	0.0250	1	04/08/24	04/08/24	
o-Xylene	ND	0.0250	1	04/08/24	04/08/24	
p,m-Xylene	ND	0.0500	1	04/08/24	04/08/24	
Total Xylenes	ND	0.0250	1	04/08/24	04/08/24	
Surrogate: Bromofluorobenzene		*85.8 %*	*70-130*	*04/08/24*	*04/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*04/08/24*	*04/08/24*	
Surrogate: Toluene-d8		*93.7 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2415006
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/08/24	04/08/24	
Surrogate: Bromofluorobenzene		*85.8 %*	*70-130*	*04/08/24*	*04/08/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*04/08/24*	*04/08/24*	
Surrogate: Toluene-d8		*93.7 %*	*70-130*	*04/08/24*	*04/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415002
Diesel Range Organics (C10-C28)	ND	25.0	1	04/08/24	04/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/08/24	04/09/24	
Surrogate: n-Nonane		*114 %*	*50-200*	*04/08/24*	*04/09/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415004
Chloride	ND	100	5	04/08/24	04/08/24	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415006-BLK1)									Prepared: 04/08/24 Analyzed: 04/08/24
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: Bromofluorobenzene	*0.436*		*0.500*		*87.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.506*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.484*		*0.500*		*96.8*	*70-130*			
LCS (2415006-BS1)									Prepared: 04/08/24 Analyzed: 04/08/24
Benzene	2.38	0.0250	2.50		95.4	70-130			
Ethylbenzene	2.30	0.0250	2.50		92.1	70-130			
Toluene	2.51	0.0250	2.50		101	70-130			
o-Xylene	2.34	0.0250	2.50		93.4	70-130			
p,m-Xylene	4.67	0.0500	5.00		93.5	70-130			
Total Xylenes	7.01	0.0250	7.50		93.4	70-130			
Surrogate: Bromofluorobenzene	*0.449*		*0.500*		*89.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.527*		*0.500*		*105*	*70-130*			
Surrogate: Toluene-d8	*0.483*		*0.500*		*96.5*	*70-130*			
Matrix Spike (2415006-MS1)				**Source: E404045-22**					Prepared: 04/08/24 Analyzed: 04/08/24
Benzene	2.34	0.0250	2.50	ND	93.7	48-131			
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135			
Toluene	2.34	0.0250	2.50	ND	93.4	48-130			
o-Xylene	2.30	0.0250	2.50	ND	92.1	43-135			
p,m-Xylene	4.64	0.0500	5.00	ND	92.8	43-135			
Total Xylenes	6.94	0.0250	7.50	ND	92.5	43-135			
Surrogate: Bromofluorobenzene	*0.449*		*0.500*		*89.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.515*		*0.500*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.461*		*0.500*		*92.1*	*70-130*			
Matrix Spike Dup (2415006-MSD1)				**Source: E404045-22**					Prepared: 04/08/24 Analyzed: 04/08/24
Benzene	2.40	0.0250	2.50	ND	95.8	48-131	2.22	23	
Ethylbenzene	2.30	0.0250	2.50	ND	92.1	45-135	0.0652	27	
Toluene	2.44	0.0250	2.50	ND	97.7	48-130	4.46	24	
o-Xylene	2.37	0.0250	2.50	ND	94.9	43-135	3.06	27	
p,m-Xylene	4.81	0.0500	5.00	ND	96.1	43-135	3.54	27	
Total Xylenes	7.18	0.0250	7.50	ND	95.7	43-135	3.38	27	
Surrogate: Bromofluorobenzene	*0.460*		*0.500*		*91.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.527*		*0.500*		*105*	*70-130*			
Surrogate: Toluene-d8	*0.476*		*0.500*		*95.1*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415005-BLK1)									Prepared: 04/08/24 Analyzed: 04/08/24
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	*7.94*		*8.00*		*99.3*	*70-130*			
LCS (2415005-BS1)									Prepared: 04/08/24 Analyzed: 04/08/24
Benzene	4.83	0.0250	5.00		96.6	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.4	70-130			
Toluene	4.84	0.0250	5.00		96.8	70-130			
o-Xylene	4.81	0.0250	5.00		96.2	70-130			
p,m-Xylene	9.68	0.0500	10.0		96.8	70-130			
Total Xylenes	14.5	0.0250	15.0		96.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.91*		*8.00*		*98.9*	*70-130*			
Matrix Spike (2415005-MS1)				**Source: E404045-01**					Prepared: 04/08/24 Analyzed: 04/08/24
Benzene	5.18	0.0250	5.00	ND	104	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
Toluene	5.19	0.0250	5.00	ND	104	61-130			
o-Xylene	5.15	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.93*		*8.00*		*99.1*	*70-130*			
Matrix Spike Dup (2415005-MSD1)				**Source: E404045-01**					Prepared: 04/08/24 Analyzed: 04/08/24
Benzene	5.19	0.0250	5.00	ND	104	54-133	0.161	20	
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133	0.129	20	
Toluene	5.20	0.0250	5.00	ND	104	61-130	0.311	20	
o-Xylene	5.17	0.0250	5.00	ND	103	63-131	0.401	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	0.00434	20	
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131	0.136	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.93*		*8.00*		*99.2*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415005-BLK1)									Prepared: 04/08/24 Analyzed: 04/08/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.28*		*8.00*		*91.0*	*70-130*			
LCS (2415005-BS2)									Prepared: 04/08/24 Analyzed: 04/08/24
Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.31*		*8.00*		*91.4*	*70-130*			
Matrix Spike (2415005-MS2)				**Source: E404045-01**					Prepared: 04/08/24 Analyzed: 04/08/24
Gasoline Range Organics (C6-C10)	43.4	20.0	50.0	ND	86.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.31*		*8.00*		*91.3*	*70-130*			
Matrix Spike Dup (2415005-MSD2)				**Source: E404045-01**					Prepared: 04/08/24 Analyzed: 04/08/24
Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.2	70-130	3.83	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.30*		*8.00*		*91.2*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415006-BLK1)									Prepared: 04/08/24 Analyzed: 04/08/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.436*		*0.500*		*87.1*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.506*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.484*		*0.500*		*96.8*	*70-130*			
LCS (2415006-BS2)									Prepared: 04/08/24 Analyzed: 04/08/24
Gasoline Range Organics (C6-C10)	51.6	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	*0.425*		*0.500*		*85.0*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.466*		*0.500*		*93.2*	*70-130*			
Surrogate: Toluene-d8	*0.487*		*0.500*		*97.4*	*70-130*			
Matrix Spike (2415006-MS2)				**Source: E404045-22**					Prepared: 04/08/24 Analyzed: 04/08/24
Gasoline Range Organics (C6-C10)	51.1	20.0	50.0	ND	102	70-130			
Surrogate: Bromofluorobenzene	*0.430*		*0.500*		*85.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.518*		*0.500*		*104*	*70-130*			
Surrogate: Toluene-d8	*0.464*		*0.500*		*92.7*	*70-130*			
Matrix Spike Dup (2415006-MSD2)				**Source: E404045-22**					Prepared: 04/08/24 Analyzed: 04/08/24
Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130	1.98	20	
Surrogate: Bromofluorobenzene	*0.441*		*0.500*		*88.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.501*		*0.500*		*100*	*70-130*			
Surrogate: Toluene-d8	*0.492*		*0.500*		*98.3*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415001-BLK1)									Prepared: 04/08/24 Analyzed: 04/08/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*57.4*		*50.0*		*115*	*50-200*			
LCS (2415001-BS1)									Prepared: 04/08/24 Analyzed: 04/08/24
Diesel Range Organics (C10-C28)	279	25.0	250		112	38-132			
Surrogate: n-Nonane	*55.0*		*50.0*		*110*	*50-200*			
Matrix Spike (2415001-MS1)				**Source: E404045-04**					Prepared: 04/08/24 Analyzed: 04/08/24
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	*56.7*		*50.0*		*113*	*50-200*			
Matrix Spike Dup (2415001-MSD1)				**Source: E404045-04**					Prepared: 04/08/24 Analyzed: 04/08/24
Diesel Range Organics (C10-C28)	274	25.0	250	ND	110	38-132	2.98	20	
Surrogate: n-Nonane	*54.3*		*50.0*		*109*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415002-BLK1)									Prepared: 04/08/24 Analyzed: 04/09/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*55.5*		*50.0*		*111*	*50-200*			
LCS (2415002-BS1)									Prepared: 04/08/24 Analyzed: 04/09/24
Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	*57.2*		*50.0*		*114*	*50-200*			
Matrix Spike (2415002-MS1)				**Source: E404045-22**					Prepared: 04/08/24 Analyzed: 04/09/24
Diesel Range Organics (C10-C28)	284	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	*57.2*		*50.0*		*114*	*50-200*			
Matrix Spike Dup (2415002-MSD1)				**Source: E404045-22**					Prepared: 04/08/24 Analyzed: 04/09/24
Diesel Range Organics (C10-C28)	282	25.0	250	ND	113	38-132	0.642	20	
Surrogate: n-Nonane	*56.9*		*50.0*		*114*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

Anions by EPA 300.0/9056A

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 (2415003-BLK1)									Prepared: 04/08/24 Analyzed: 04/08/24
Chloride	ND	20.0							
LCS (2415003-BS1)									Prepared: 04/08/24 Analyzed: 04/08/24
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2415003-MS1)				**Source: E404045-05**					Prepared: 04/08/24 Analyzed: 04/08/24
Chloride	257	40.0	250	ND	103	80-120			
Matrix Spike Dup (2415003-MSD1)				**Source: E404045-05**					Prepared: 04/08/24 Analyzed: 04/08/24
Chloride	257	40.0	250	ND	103	80-120	0.0264	20	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/9/2024 3:37:12PM

Anions by EPA 300.0/9056A

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 (2415004-BLK1)									Prepared: 04/08/24 Analyzed: 04/08/24
Chloride	ND	20.0							
LCS (2415004-BS1)									Prepared: 04/08/24 Analyzed: 04/08/24
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2415004-MS1)				**Source: E404045-24**					Prepared: 04/08/24 Analyzed: 04/08/24
Chloride	315	100	250	ND	126	80-120			M6
Matrix Spike Dup (2415004-MSD1)				**Source: E404045-24**					Prepared: 04/08/24 Analyzed: 04/08/24
Chloride	317	100	250	ND	127	80-120	0.736	20	M6

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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/09/24 15:37

M6	Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.
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: 7/7/2025 2:18:32 PM

Project Information | Chain of Custody | Page 1 of 3

Client:	MACK ENERGY
Project:	WEST MOUNT #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO#: E404045 | Job Number: 20046-0001

TAT: 1D | 2D (X) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (X) | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	4/4/24	S	1	COMP 87-8'	1	X	
				COMP 88-8'	2		
				COMP 89-8'	3		
				COMP 90-8'	4		
				COMP 91-8'	5		
				COMP 92-8'	6		
				COMP 93-8'	7		
				COMP 94-8'	8		
				COMP 95-8'	9		
	4/4/24	S	1	COMP 96-8'	10	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/4/24		Michelle Gonzales	4-5-24	1224
Michelle Gonzales	4-5-24	1632	Andrew Hobbs	4-5-24	1730
Andrew Hobbs	4-5-24	2400	Thylyh R Hall	4-8-24	0630

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Received by OCD: 5/14/2025 8:53:25 AM

Released to Imaging: 7/7/2025 2:18:32 PM

Client:	MACK ENERGY
Project:	WEST MOUNT #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E404045 | Job Number 20046-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	4/4/24	S	1	COMP 97 - 8'	11	X	
				COMP 98 - 8'	12		
				COMP 99 - 8'	13		
				COMP 100 - 8'	14		
				COMP 101 - 8'	15		
				COMP 102 - 8'	16		
				COMP 103 - 8'	17		
				COMP 104 - 8'	18		
				COMP 105 - 8'	19		
	4/4/24	S	1	COMP 106 - 8'	20	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/4/24		Michelle Gonzales	4-5-24	1224
Michelle Gonzales	4-5-24	1632	Andrew Hobbs	4-5-24	1730
Andrew Hobbs	4-5-24	2400	Hayleigh R Hall	4-8-24	0630

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Received by OCD: 5/14/2025 8:53:25 AM

Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 3 of 3

Client:	MACK ENERGY
Project:	WEST MONT #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E404045 | Job Number 200460-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	4/4/24	S	1	COMP 107-8'	21	X	
	"	"	"	COMP 108-8'	22	"	
	"	"	"	COMP 109-8'	23	"	
	4/4/24	S	1	COMP 110-8'	24	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/4/24		Michelle Gonzales	4-5-24	1224
Michelle Gonzales	4-5-24	1632	Andrew Hobbs	4-5-24	1730
Andrew Hobbs	4-5-24	2400	Chuyler E Hall	4-8-24	0830

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Envirotech Analytical Laboratory

Printed: 4/8/2024 10:07:41AM

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:	04/08/24 06:30	Work Order ID:	E404045
Phone:	(575) 390-6397	Date Logged In:	04/05/24 16:30	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	04/09/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Project manager and time sampled are not documented on the COC by client.

Client Instruction

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

Date

envirotech 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:	West Mount #1
Work Order:	E404056
Job Number:	20046-0001
Received:	4/10/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/10/24

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: 4/10/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E404056
Date Received: 4/10/2024 6:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/10/2024 6:00:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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,

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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/10/24 18:00

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Comp 111 -8'	E404056-01A	Solid	04/05/24	04/10/24	Glass Jar, 2 oz.
Comp 112	E404056-02A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
Comp 113	E404056-03A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
Comp 114	E404056-04A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
Comp 115	E404056-05A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
Comp 116	E404056-06A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
Comp 117	E404056-07A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
Comp 118	E404056-08A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
Comp 119	E404056-09A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
SW Comp 1 -2'	E404056-10A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
SW Comp 2 -2'	E404056-11A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
SW Comp 3 -2'	E404056-12A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
SW Comp 4 -2'	E404056-13A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
SW Comp 5 -2'	E404056-14A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
SW Comp 6 -2'	E404056-15A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
SW Comp 7 -2'	E404056-16A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
SW Comp 8 -2'	E404056-17A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
SW Comp 9 -2'	E404056-18A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
SW Comp 10 -2'	E404056-19A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
SW Comp 11 -2'	E404056-20A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
SW Comp 12 -2'	E404056-21A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
SW Comp 13 -2'	E404056-22A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
SW Comp 14 -2'	E404056-23A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.
SW Comp 15 -2'	E404056-24A	Soil	04/05/24	04/10/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

Comp 111 -8'

E404056-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.8 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.9 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*89.8 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

Comp 112

E404056-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.2 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*92.9 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

Comp 113

E404056-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.8 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*90.5 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

Comp 114

E404056-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*92.0 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

Comp 115

E404056-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.7 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.1 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*92.7 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

Comp 116

E404056-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.8 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*92.3 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

Comp 117

E404056-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.7 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*87.1 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

Comp 118

E404056-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

Comp 119

E404056-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.4 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.9 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

SW Comp 1 -2'

E404056-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.4 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*103 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	200	10	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

SW Comp 2 -2'

E404056-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.4 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	200	10	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

SW Comp 3 -2'

E404056-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.3 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	200	10	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

SW Comp 4 -2'

E404056-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.5 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.7 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*105 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	200	10	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

SW Comp 5 -2'

E404056-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.5 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.9 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

SW Comp 6 -2'

E404056-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.4 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.3 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

SW Comp 7 -2'

E404056-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.9 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

SW Comp 8 -2'

E404056-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.4 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.7 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

SW Comp 9 -2'

E404056-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.4 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.3 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*102 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

SW Comp 10 -2'

E404056-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.3 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*106 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

SW Comp 11 -2'

E404056-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Benzene	ND	0.0250	1	04/09/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/09/24	04/10/24	
Toluene	ND	0.0250	1	04/09/24	04/10/24	
o-Xylene	ND	0.0250	1	04/09/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/09/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/09/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.6 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415023
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/09/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.0 %*	*70-130*	*04/09/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415024
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*108 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415020
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

SW Comp 12 -2'

E404056-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415008
Benzene	ND	0.0250	1	04/10/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/10/24	
Toluene	ND	0.0250	1	04/10/24	04/10/24	
o-Xylene	ND	0.0250	1	04/10/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.4 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415008
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.4 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*111 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415017
Chloride	ND	100	5	04/09/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

SW Comp 13 -2'

E404056-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415008
Benzene	ND	0.0250	1	04/10/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/10/24	
Toluene	ND	0.0250	1	04/10/24	04/10/24	
o-Xylene	ND	0.0250	1	04/10/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.2 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415008
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.2 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*112 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415017
Chloride	ND	100	5	04/09/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

SW Comp 14 -2'

E404056-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415008
Benzene	ND	0.0250	1	04/10/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/10/24	
Toluene	ND	0.0250	1	04/10/24	04/10/24	
o-Xylene	ND	0.0250	1	04/10/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.6 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415008
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.7 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*109 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415017
Chloride	ND	100	5	04/09/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

SW Comp 15 -2'

E404056-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415008
Benzene	ND	0.0250	1	04/10/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/10/24	
Toluene	ND	0.0250	1	04/10/24	04/10/24	
o-Xylene	ND	0.0250	1	04/10/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415008
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.1 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2415026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415017
Chloride	ND	100	5	04/09/24	04/10/24	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415008-BLK1)									Prepared: 04/09/24 Analyzed: 04/09/24
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	*7.52*		*8.00*		*94.0*	*70-130*			
LCS (2415008-BS1)									Prepared: 04/09/24 Analyzed: 04/09/24
Benzene	4.85	0.0250	5.00		96.9	70-130			
Ethylbenzene	4.90	0.0250	5.00		97.9	70-130			
Toluene	4.86	0.0250	5.00		97.2	70-130			
o-Xylene	4.84	0.0250	5.00		96.8	70-130			
p,m-Xylene	9.86	0.0500	10.0		98.6	70-130			
Total Xylenes	14.7	0.0250	15.0		98.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.69*		*8.00*		*96.1*	*70-130*			
Matrix Spike (2415008-MS1)				**Source: E404049-01**					Prepared: 04/09/24 Analyzed: 04/09/24
Benzene	4.92	0.0250	5.00	0.0330	97.8	54-133			
Ethylbenzene	4.96	0.0250	5.00	ND	99.3	61-133			
Toluene	5.07	0.0250	5.00	0.150	98.4	61-130			
o-Xylene	4.95	0.0250	5.00	0.0537	97.9	63-131			
p,m-Xylene	10.1	0.0500	10.0	0.149	99.8	63-131			
Total Xylenes	15.1	0.0250	15.0	0.203	99.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.65*		*8.00*		*95.7*	*70-130*			
Matrix Spike Dup (2415008-MSD1)				**Source: E404049-01**					Prepared: 04/09/24 Analyzed: 04/09/24
Benzene	4.90	0.0250	5.00	0.0330	97.4	54-133	0.481	20	
Ethylbenzene	4.98	0.0250	5.00	ND	99.5	61-133	0.234	20	
Toluene	5.06	0.0250	5.00	0.150	98.1	61-130	0.262	20	
o-Xylene	5.04	0.0250	5.00	0.0537	99.7	63-131	1.86	20	
p,m-Xylene	10.1	0.0500	10.0	0.149	99.7	63-131	0.0839	20	
Total Xylenes	15.2	0.0250	15.0	0.203	99.7	63-131	0.560	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.67*		*8.00*		*95.9*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415023-BLK1)									Prepared: 04/09/24 Analyzed: 04/10/24
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	*7.22*		*8.00*		*90.2*	*70-130*			
LCS (2415023-BS1)									Prepared: 04/09/24 Analyzed: 04/10/24
Benzene	4.82	0.0250	5.00		96.4	70-130			
Ethylbenzene	4.76	0.0250	5.00		95.1	70-130			
Toluene	4.87	0.0250	5.00		97.4	70-130			
o-Xylene	4.84	0.0250	5.00		96.8	70-130			
p,m-Xylene	9.73	0.0500	10.0		97.3	70-130			
Total Xylenes	14.6	0.0250	15.0		97.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.26*		*8.00*		*90.7*	*70-130*			
LCS Dup (2415023-BSD1)									Prepared: 04/09/24 Analyzed: 04/10/24
Benzene	4.68	0.0250	5.00		93.7	70-130	2.89	20	
Ethylbenzene	4.61	0.0250	5.00		92.3	70-130	3.02	20	
Toluene	4.73	0.0250	5.00		94.6	70-130	2.87	20	
o-Xylene	4.69	0.0250	5.00		93.9	70-130	3.08	20	
p,m-Xylene	9.44	0.0500	10.0		94.4	70-130	3.04	20	
Total Xylenes	14.1	0.0250	15.0		94.2	70-130	3.05	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.24*		*8.00*		*90.5*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415008-BLK1)									Prepared: 04/09/24 Analyzed: 04/09/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.71*		*8.00*		*96.4*	*70-130*			
LCS (2415008-BS2)									Prepared: 04/09/24 Analyzed: 04/09/24
Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.83*		*8.00*		*97.8*	*70-130*			
Matrix Spike (2415008-MS2)				**Source: E404049-01**					Prepared: 04/09/24 Analyzed: 04/09/24
Gasoline Range Organics (C6-C10)	53.7	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.74*		*8.00*		*96.8*	*70-130*			
Matrix Spike Dup (2415008-MSD2)				**Source: E404049-01**					Prepared: 04/09/24 Analyzed: 04/09/24
Gasoline Range Organics (C6-C10)	54.9	20.0	50.0	ND	110	70-130	2.22	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.72*		*8.00*		*96.5*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415023-BLK1)									Prepared: 04/09/24 Analyzed: 04/10/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.30*		*8.00*		*91.3*	*70-130*			
LCS (2415023-BS2)									Prepared: 04/09/24 Analyzed: 04/10/24
Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.44*		*8.00*		*93.0*	*70-130*			
LCS Dup (2415023-BSD2)									Prepared: 04/09/24 Analyzed: 04/10/24
Gasoline Range Organics (C6-C10)	44.8	20.0	50.0		89.6	70-130	3.25	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.46*		*8.00*		*93.2*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415024-BLK1)									Prepared: 04/10/24 Analyzed: 04/10/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*46.7*		*50.0*		*93.3*	*50-200*			
LCS (2415024-BS1)									Prepared: 04/10/24 Analyzed: 04/10/24
Diesel Range Organics (C10-C28)	245	25.0	250		98.0	38-132			
Surrogate: n-Nonane	*46.2*		*50.0*		*92.3*	*50-200*			
LCS Dup (2415024-BSD1)									Prepared: 04/10/24 Analyzed: 04/10/24
Diesel Range Organics (C10-C28)	247	25.0	250		98.8	38-132	0.853	20	
Surrogate: n-Nonane	*45.8*		*50.0*		*91.7*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415026-BLK1)									Prepared: 04/10/24 Analyzed: 04/10/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*57.2*		*50.0*		*114*	*50-200*			
LCS (2415026-BS1)									Prepared: 04/10/24 Analyzed: 04/10/24
Diesel Range Organics (C10-C28)	283	25.0	250		113	38-132			
Surrogate: n-Nonane	*56.0*		*50.0*		*112*	*50-200*			
LCS Dup (2415026-BSD1)									Prepared: 04/10/24 Analyzed: 04/10/24
Diesel Range Organics (C10-C28)	283	25.0	250		113	38-132	0.233	20	
Surrogate: n-Nonane	*56.1*		*50.0*		*112*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415017-BLK1)									Prepared: 04/09/24 Analyzed: 04/09/24
Chloride	ND	20.0							
LCS (2415017-BS1)									Prepared: 04/09/24 Analyzed: 04/09/24
Chloride	251	20.0	250		100	90-110			
LCS Dup (2415017-BSD1)									Prepared: 04/09/24 Analyzed: 04/09/24
Chloride	250	20.0	250		99.9	90-110	0.473	20	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/10/2024 6:00:41PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415020-BLK1)									Prepared: 04/09/24 Analyzed: 04/09/24
Chloride	ND	20.0							
LCS (2415020-BS1)									Prepared: 04/09/24 Analyzed: 04/09/24
Chloride	251	20.0	250		100	90-110			
LCS Dup (2415020-BSD1)									Prepared: 04/09/24 Analyzed: 04/09/24
Chloride	251	20.0	250		101	90-110	0.103	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/10/24 18:00

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 3

Client:	MACK ENERGY
Project:	WEST POINT #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention:	ENERGY STAFFING SERVICES
Address:	2724 NW COUNTY RD
City, State, Zip	HOBBS, NM 88240
Phone:	575-393-9048
Email:	NATALIE@ENERGYSTAFFINGLLC.COM
	BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO# E404056 | Job Number 2004600001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method

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	BGDOC NM	BGDOC TX	Remarks
	4/5/24	S	1	COMP 111 - 8'	1							X		
				COMP 112	2									
				COM 113	3									
				COMP 114	4									
				COMP 115	5									
				COMP 116	6									
				COMP 117	7									
				COMP 118	8									
	4/5/24	S	1	COMP 119	9							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/5/24		Mychelle Crump	4-8-24	1230
Mychelle Crump	4-9-24	1622		4.9.24	1715
	4.9.24	2330	Kaylyn R Hall	4/10/24	0600

Lab Use Only

Received on ice: (Y) / N

T1 | T2 | T3

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 2 of 3

Client:	MACK ENERGY
Project:	WEST MOUNT #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E404056 Job Number 2004600001

TAT: 1D | 2D (X) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (X) | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	BGDOC TX	Remarks
	4/5/24	S	1	SWCOMP 1-2'	10	X		
				SWCOMP 2-2'	11			
				SWCOMP 3-2'	12			
				SWCOMP 4-2'	13			
				SWCOMP 5-2'	14			
				SWCOMP 6-2'	15			
				SWCOMP 7-2'	16			
				SWCOMP 8-2'	17			
				SWCOMP 9-2'	18			
	4/5/24	S	1	SWCOMP 10-2'	19	X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. Rivera

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/5/24		Michelle Cruz	4-8-24	1230
Michelle Cruz	4-9-24	1622	J.M.	4.9.24	1715
J.M.	4.9.24	2330	Kayleigh R Hall	4.10.24	0600

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 3 of 3

Client:	MACK ENERGY
Project:	WEST MOUND #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E404056 | Job Number 2004600001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	4/5/24	S	1	SWCOMP 11-2'	20	X	
				SWCOMP 12-2'	21		
				SWCOMP 13-2'	22		
				SWCOMP 14-2'	23		
	4/5/24	S	1	SWCOMP 15-2'	24	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/5/24		Michelle Gonzales	4-8-24	1230
Michelle Gonzales	4-9-24	1622		4.9.24	1715
	4.9.24	2330	Kenyon R Hall	4.10.24	0600

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Envirotech Analytical Laboratory

Printed: 4/10/2024 11:28:38AM

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:	04/10/24 06:00	Work Order ID:	E404056
Phone:	(575) 390-6397	Date Logged In:	04/09/24 15:50	Logged In By:	Angelina Pineda
Email:	Natalie@energystaffingllc.com	Due Date:	04/10/24 17:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Project Manager and Time Sampled not documented on COC by client

Client Instruction

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

Date

envirotech 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:	West Mount #1
Work Order:	E404057
Job Number:	20046-0001
Received:	4/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/11/24

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: 4/11/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E404057
Date Received: 4/10/2024 6:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/10/2024 6:00:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/11/24 15:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW Comp 16 -2'	E404057-01A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 17-2'	E404057-02A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 18-2'	E404057-03A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 19-2'	E404057-04A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 20-2'	E404057-05A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 21-2'	E404057-06A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 22-2'	E404057-07A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 23-2'	E404057-08A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 24-2'	E404057-09A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 25-2'	E404057-10A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 26-2'	E404057-11A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 27-2'	E404057-12A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 28-2'	E404057-13A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 29-2'	E404057-14A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 30-2'	E404057-15A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 31-2'	E404057-16A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 32-2'	E404057-17A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 33-2'	E404057-18A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 34-2'	E404057-19A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 35-2'	E404057-20A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 36-2'	E404057-21A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 37-2'	E404057-22A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 38-2'	E404057-23A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.
SW Comp 39-2'	E404057-24A	Soil	04/08/24	04/10/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 16 -2'

E404057-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/10/24	
Toluene	ND	0.0250	1	04/10/24	04/10/24	
o-Xylene	ND	0.0250	1	04/10/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.0 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.9 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*84.6 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 17-2'

E404057-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.7 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.2 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*85.7 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 18-2'

E404057-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.1 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.0 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*86.6 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 19-2'

E404057-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.3 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.8 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*89.6 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 20-2'

E404057-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.8 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*88.6 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 21-2'

E404057-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.4 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*85.9 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 22-2'

E404057-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.3 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.6 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*83.3 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 23-2'

E404057-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.1 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.0 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*90.1 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 24-2'

E404057-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.9 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.8 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*90.5 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 25-2'

E404057-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.2 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		*85.2 %*	*50-200*	*04/10/24*	*04/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 26-2'

E404057-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		*89.0 %*	*50-200*	*04/10/24*	*04/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 27-2'

E404057-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.6 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		*92.1 %*	*50-200*	*04/10/24*	*04/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 28-2'

E404057-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/10/24	
Toluene	ND	0.0250	1	04/10/24	04/10/24	
o-Xylene	ND	0.0250	1	04/10/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.5 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		*89.1 %*	*50-200*	*04/10/24*	*04/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 29-2'

E404057-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.1 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.8 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		*90.5 %*	*50-200*	*04/10/24*	*04/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 30-2'

E404057-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.0 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.2 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		*92.9 %*	*50-200*	*04/10/24*	*04/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 31-2'

E404057-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		*98.9 %*	*50-200*	*04/10/24*	*04/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 32-2'

E404057-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.8 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.9 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		*92.2 %*	*50-200*	*04/10/24*	*04/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 33-2'

E404057-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		*92.0 %*	*50-200*	*04/10/24*	*04/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 34-2'

E404057-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		*87.2 %*	*50-200*	*04/10/24*	*04/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 35-2'

E404057-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Benzene	ND	0.0250	1	04/10/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/11/24	
Toluene	ND	0.0250	1	04/10/24	04/11/24	
o-Xylene	ND	0.0250	1	04/10/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.3 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2415028
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*04/10/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2415025
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/11/24	
Surrogate: n-Nonane		*89.9 %*	*50-200*	*04/10/24*	*04/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415021
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 36-2'

E404057-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2415008
Benzene	ND	0.0250	1	04/10/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/10/24	
Toluene	ND	0.0250	1	04/10/24	04/10/24	
o-Xylene	ND	0.0250	1	04/10/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2415008
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.2 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*122 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415022
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 37-2'

E404057-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2415008
Benzene	ND	0.0250	1	04/10/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/10/24	
Toluene	ND	0.0250	1	04/10/24	04/10/24	
o-Xylene	ND	0.0250	1	04/10/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.3 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2415008
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.0 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*115 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415022
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 38-2'

E404057-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2415008
Benzene	ND	0.0250	1	04/10/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/10/24	
Toluene	ND	0.0250	1	04/10/24	04/10/24	
o-Xylene	ND	0.0250	1	04/10/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2415008
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.2 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*101 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415022
Chloride	ND	100	5	04/10/24	04/10/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

SW Comp 39-2'

E404057-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2415008
Benzene	ND	0.0250	1	04/10/24	04/10/24	
Ethylbenzene	ND	0.0250	1	04/10/24	04/10/24	
Toluene	ND	0.0250	1	04/10/24	04/10/24	
o-Xylene	ND	0.0250	1	04/10/24	04/10/24	
p,m-Xylene	ND	0.0500	1	04/10/24	04/10/24	
Total Xylenes	ND	0.0250	1	04/10/24	04/10/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2415008
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/10/24	04/10/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.2 %*	*70-130*	*04/10/24*	*04/10/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415026
Diesel Range Organics (C10-C28)	ND	25.0	1	04/10/24	04/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/10/24	04/10/24	
Surrogate: n-Nonane		*107 %*	*50-200*	*04/10/24*	*04/10/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415022
Chloride	ND	100	5	04/10/24	04/10/24	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415008-BLK1)									Prepared: 04/09/24 Analyzed: 04/09/24
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	*7.52*		*8.00*		*94.0*	*70-130*			
LCS (2415008-BS1)									Prepared: 04/09/24 Analyzed: 04/09/24
Benzene	4.85	0.0250	5.00		96.9	70-130			
Ethylbenzene	4.90	0.0250	5.00		97.9	70-130			
Toluene	4.86	0.0250	5.00		97.2	70-130			
o-Xylene	4.84	0.0250	5.00		96.8	70-130			
p,m-Xylene	9.86	0.0500	10.0		98.6	70-130			
Total Xylenes	14.7	0.0250	15.0		98.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.69*		*8.00*		*96.1*	*70-130*			
Matrix Spike (2415008-MS1)				**Source: E404049-01**					Prepared: 04/09/24 Analyzed: 04/09/24
Benzene	4.92	0.0250	5.00	0.0330	97.8	54-133			
Ethylbenzene	4.96	0.0250	5.00	ND	99.3	61-133			
Toluene	5.07	0.0250	5.00	0.150	98.4	61-130			
o-Xylene	4.95	0.0250	5.00	0.0537	97.9	63-131			
p,m-Xylene	10.1	0.0500	10.0	0.149	99.8	63-131			
Total Xylenes	15.1	0.0250	15.0	0.203	99.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.65*		*8.00*		*95.7*	*70-130*			
Matrix Spike Dup (2415008-MSD1)				**Source: E404049-01**					Prepared: 04/09/24 Analyzed: 04/09/24
Benzene	4.90	0.0250	5.00	0.0330	97.4	54-133	0.481	20	
Ethylbenzene	4.98	0.0250	5.00	ND	99.5	61-133	0.234	20	
Toluene	5.06	0.0250	5.00	0.150	98.1	61-130	0.262	20	
o-Xylene	5.04	0.0250	5.00	0.0537	99.7	63-131	1.86	20	
p,m-Xylene	10.1	0.0500	10.0	0.149	99.7	63-131	0.0839	20	
Total Xylenes	15.2	0.0250	15.0	0.203	99.7	63-131	0.560	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.67*		*8.00*		*95.9*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415028-BLK1)									Prepared: 04/10/24 Analyzed: 04/10/24
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	*7.57*		*8.00*		*94.6*	*70-130*			
LCS (2415028-BS1)									Prepared: 04/10/24 Analyzed: 04/10/24
Benzene	4.70	0.0250	5.00		94.1	70-130			
Ethylbenzene	4.73	0.0250	5.00		94.6	70-130			
Toluene	4.83	0.0250	5.00		96.6	70-130			
o-Xylene	4.83	0.0250	5.00		96.6	70-130			
p,m-Xylene	9.69	0.0500	10.0		96.9	70-130			
Total Xylenes	14.5	0.0250	15.0		96.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.72*		*8.00*		*96.5*	*70-130*			
Matrix Spike (2415028-MS1)				**Source: E404057-13**					Prepared: 04/10/24 Analyzed: 04/10/24
Benzene	4.71	0.0250	5.00	ND	94.2	54-133			
Ethylbenzene	4.74	0.0250	5.00	ND	94.7	61-133			
Toluene	4.82	0.0250	5.00	ND	96.4	61-130			
o-Xylene	4.84	0.0250	5.00	ND	96.7	63-131			
p,m-Xylene	9.67	0.0500	10.0	ND	96.7	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	96.7	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.76*		*8.00*		*97.1*	*70-130*			
Matrix Spike Dup (2415028-MSD1)				**Source: E404057-13**					Prepared: 04/10/24 Analyzed: 04/10/24
Benzene	4.53	0.0250	5.00	ND	90.7	54-133	3.86	20	
Ethylbenzene	4.57	0.0250	5.00	ND	91.5	61-133	3.49	20	
Toluene	4.64	0.0250	5.00	ND	92.7	61-130	3.88	20	
o-Xylene	4.67	0.0250	5.00	ND	93.3	63-131	3.53	20	
p,m-Xylene	9.36	0.0500	10.0	ND	93.6	63-131	3.33	20	
Total Xylenes	14.0	0.0250	15.0	ND	93.5	63-131	3.40	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.72*		*8.00*		*96.5*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415008-BLK1)									Prepared: 04/09/24 Analyzed: 04/09/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.71*		*8.00*		*96.4*	*70-130*			
LCS (2415008-BS2)									Prepared: 04/09/24 Analyzed: 04/09/24
Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.83*		*8.00*		*97.8*	*70-130*			
Matrix Spike (2415008-MS2)				**Source: E404049-01**					Prepared: 04/09/24 Analyzed: 04/09/24
Gasoline Range Organics (C6-C10)	53.7	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.74*		*8.00*		*96.8*	*70-130*			
Matrix Spike Dup (2415008-MSD2)				**Source: E404049-01**					Prepared: 04/09/24 Analyzed: 04/09/24
Gasoline Range Organics (C6-C10)	54.9	20.0	50.0	ND	110	70-130	2.22	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.72*		*8.00*		*96.5*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415028-BLK1)									Prepared: 04/10/24 Analyzed: 04/10/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.27*		*8.00*		*90.9*	*70-130*			
LCS (2415028-BS2)									Prepared: 04/10/24 Analyzed: 04/10/24
Gasoline Range Organics (C6-C10)	42.3	20.0	50.0		84.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.36*		*8.00*		*92.0*	*70-130*			
Matrix Spike (2415028-MS2)				**Source: E404057-13**					Prepared: 04/10/24 Analyzed: 04/10/24
Gasoline Range Organics (C6-C10)	41.9	20.0	50.0	ND	83.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.38*		*8.00*		*92.2*	*70-130*			
Matrix Spike Dup (2415028-MSD2)				**Source: E404057-13**					Prepared: 04/10/24 Analyzed: 04/10/24
Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.6	70-130	2.14	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.40*		*8.00*		*92.5*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415025-BLK1)									Prepared: 04/10/24 Analyzed: 04/10/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*43.4*		*50.0*		*86.9*	*50-200*			
LCS (2415025-BS1)									Prepared: 04/10/24 Analyzed: 04/10/24
Diesel Range Organics (C10-C28)	255	25.0	250		102	38-132			
Surrogate: n-Nonane	*45.3*		*50.0*		*90.6*	*50-200*			
LCS Dup (2415025-BSD1)									Prepared: 04/10/24 Analyzed: 04/10/24
Diesel Range Organics (C10-C28)	253	25.0	250		101	38-132	0.826	20	
Surrogate: n-Nonane	*44.7*		*50.0*		*89.5*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415026-BLK1)									Prepared: 04/10/24 Analyzed: 04/10/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*57.2*		*50.0*		*114*	*50-200*			
LCS (2415026-BS1)									Prepared: 04/10/24 Analyzed: 04/10/24
Diesel Range Organics (C10-C28)	283	25.0	250		113	38-132			
Surrogate: n-Nonane	*56.0*		*50.0*		*112*	*50-200*			
LCS Dup (2415026-BSD1)									Prepared: 04/10/24 Analyzed: 04/10/24
Diesel Range Organics (C10-C28)	283	25.0	250		113	38-132	0.233	20	
Surrogate: n-Nonane	*56.1*		*50.0*		*112*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415021-BLK1)									Prepared: 04/09/24 Analyzed: 04/09/24
Chloride	ND	20.0							
LCS (2415021-BS1)									Prepared: 04/09/24 Analyzed: 04/09/24
Chloride	251	20.0	250		101	90-110			
LCS Dup (2415021-BSD1)									Prepared: 04/09/24 Analyzed: 04/09/24
Chloride	251	20.0	250		100	90-110	0.281	20	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/11/2024 3:52:44PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415022-BLK1)									Prepared: 04/09/24 Analyzed: 04/09/24
Chloride	ND	20.0							
LCS (2415022-BS1)									Prepared: 04/09/24 Analyzed: 04/09/24
Chloride	251	20.0	250		100	90-110			
LCS Dup (2415022-BSD1)									Prepared: 04/09/24 Analyzed: 04/09/24
Chloride	251	20.0	250		100	90-110	0.223	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/11/24 15:52

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 3

Client:	MACK ENERGY
Project:	WEST MOUNT #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention:	ENERGY STAFFING SERVICES
Address:	2724 NW COUNTY RD
City, State, Zip	HOBBS, NM 88240
Phone:	575-393-9048
Email:	NATALIE@ENERGYSTAFFINGLLC.COM
	BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO#	Job Number
E404057	200416-0001

TAT

1D	2D	3D	Standard
	X		

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX
X				

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	BGDOC NM	BGDOC TX	Remarks
	4/8/24	S	1	SWCOMP 16-2'	1							X		
				SWCOMP 17-2'	2									
				SWCOMP 18-2'	3									
				SWCOMP 19-2'	4									
				SWCOMP 20-2'	5									
				SWCOMP 21-2'	6									
				SWCOMP 22-2'	7									
				SWCOMP 23-2'	8									
				SWCOMP 24-2'	9									
	4/8/24	S	1	SWCOMP 25-2'	10							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/8/24		Michelle Gonzales	4-9-24	1135
Michelle Gonzales	4-9-24	1622		4.9.24	1715
	4.9.24	2330		4/10/24	0600

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 2 of 3

Client:	MACK ENERGY
Project:	WEST MOUNT D,
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E404057 Job Number 200460000 1

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	BGDOC TX	Remarks
	4/8/24	S	1	SWCOMP-26-2'	11	X		
				SWCOMP 27-2'	12			
				SWCOMP 28-2'	13			
				SWCOMP 29-2'	14			
				SWCOMP 30-2'	15			
				SWCOMP 31-2'	16			
				SWCOMP 32-2'	17			
				SWCOMP 33-2'	18			
				SWCOMP 34-2'	19			
	4/8/24	S	1	SWCOMP 35-2'	20	X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/8/24		Michelle Gonzales	4-9-24	1135
Michelle Gonzales	4-9-24	1622		4.9.24	1715
	4.9.24	2330	Theylynn Hall	4/10/24	0600

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 3 of 3

Client:	MACK ENERGY
Project:	WEST MOUNT #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention:	ENERGY STAFFING SERVICES
Address:	2724 NW COUNTY RD
City, State, Zip	HOBBS, NM 88240
Phone:	575-393-9048
Email:	NATALIE@ENERGYSTAFFINGLLC.COM
	BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO#	Job Number
E 404057	26046000 01

TAT

1D	2D	3D	Standard
	X		

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX
X				

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	BGDOC NM	BGDOC TX	Remarks
	4/8/24	S	1	SWCOMP-36-2'	21							X		
	"	"	"	SWCOMP-37-2'	22							"		
	"	"	"	SWCOMP-38-2'	23							"		
	4/8/24	S	1	SWCOMP-39-2'	24							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	4/8/24		Michelle Gonzales	4.9.24	1135
Michelle Gonzales	4.9.24	1622	[signature]	4.9.24	1715
[signature]	4.9.24	2330	[signature] R Hall	4/10/24	0400

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Envirotech Analytical Laboratory

Printed: 4/10/2024 12:44:35PM

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:	04/10/24 06:00	Work Order ID:	E404057
Phone:	(575) 390-6397	Date Logged In:	04/09/24 16:38	Logged In By:	Angelina Pineda
Email:	Natalie@energystaffingllc.com	Due Date:	04/11/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Project Manager and Time Sampled not documented on COC by client

Client Instruction

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

Date

envirotech 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:	West Mount #1
Work Order:	E404082
Job Number:	20046-0001
Received:	4/11/2024

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/12/24

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: 4/12/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E404082
Date Received: 4/11/2024 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/11/2024 8:00:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

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Client Representative
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Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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SW Comp 56-2’ 22

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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/12/24 17:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW Comp 40-2'	E404082-01A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 41-2'	E404082-02A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 42-2'	E404082-03A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 43-2'	E404082-04A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 44-2'	E404082-05A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 45-2'	E404082-06A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 46-2'	E404082-07A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 47-2'	E404082-08A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 48-2'	E404082-09A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 49-2'	E404082-10A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 50-2'	E404082-11A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 51-2'	E404082-12A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 52-2'	E404082-13A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 53-2'	E404082-14A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 54-2'	E404082-15A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 55-2'	E404082-16A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 56-2'	E404082-17A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 57-2'	E404082-18A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 58-2'	E404082-19A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 59-2'	E404082-20A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 60-2'	E404082-21A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 61-2'	E404082-22A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 62-2'	E404082-23A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.
SW Comp 63-2'	E404082-24A	Soil	04/09/24	04/11/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 40-2'

E404082-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.4 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*94.8 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/11/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 41-2'

E404082-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*96.3 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/11/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 42-2'

E404082-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/11/24	
Toluene	ND	0.0250	1	04/11/24	04/11/24	
o-Xylene	ND	0.0250	1	04/11/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*04/11/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*04/11/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*96.2 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/11/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 43-2'

E404082-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.1 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*96.6 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/11/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 44-2'

E404082-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.4 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*93.7 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/11/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 45-2'

E404082-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.7 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*94.7 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/11/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 46-2'

E404082-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.9 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.7 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*94.5 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/11/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 47-2'

E404082-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.8 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*96.0 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 48-2'

E404082-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.3 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*98.7 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 49-2'

E404082-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.8 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*97.0 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 50-2'

E404082-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.3 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.7 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*95.2 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 51-2'

E404082-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.3 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*96.8 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 52-2'

E404082-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.1 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*99.9 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 53-2'

E404082-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.2 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*95.3 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 54-2'

E404082-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.1 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*95.1 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 55-2'

E404082-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*96.6 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 56-2'

E404082-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.9 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*93.9 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 57-2'

E404082-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.9 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*92.6 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 58-2'

E404082-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.0 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*96.1 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 59-2'

E404082-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2415044
Benzene	ND	0.0250	1	04/11/24	04/12/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/12/24	
Toluene	ND	0.0250	1	04/11/24	04/12/24	
o-Xylene	ND	0.0250	1	04/11/24	04/12/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/12/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/12/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.1 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2415044
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/12/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.5 %*	*70-130*	*04/11/24*	*04/12/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415050
Diesel Range Organics (C10-C28)	**55.2**	25.0	1	04/11/24	04/12/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/12/24	
Surrogate: n-Nonane		*95.3 %*	*50-200*	*04/11/24*	*04/12/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2415064
Chloride	ND	100	5	04/11/24	04/12/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 60-2'

E404082-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2415045
Benzene	ND	0.0250	1	04/11/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/11/24	
Toluene	ND	0.0250	1	04/11/24	04/11/24	
o-Xylene	ND	0.0250	1	04/11/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.7 %*	*70-130*	*04/11/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2415045
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.7 %*	*70-130*	*04/11/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415049
Diesel Range Organics (C10-C28)	**51.9**	25.0	1	04/11/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/11/24	
Surrogate: n-Nonane		*85.5 %*	*50-200*	*04/11/24*	*04/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415065
Chloride	ND	100	5	04/11/24	04/11/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 61-2'

E404082-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2415045
Benzene	ND	0.0250	1	04/11/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/11/24	
Toluene	ND	0.0250	1	04/11/24	04/11/24	
o-Xylene	ND	0.0250	1	04/11/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*04/11/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2415045
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.5 %*	*70-130*	*04/11/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415049
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/11/24	
Surrogate: n-Nonane		*88.2 %*	*50-200*	*04/11/24*	*04/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415065
Chloride	ND	100	5	04/11/24	04/11/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 62-2'

E404082-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2415045
Benzene	ND	0.0250	1	04/11/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/11/24	
Toluene	ND	0.0250	1	04/11/24	04/11/24	
o-Xylene	ND	0.0250	1	04/11/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*04/11/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2415045
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.9 %*	*70-130*	*04/11/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415049
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/11/24	
Surrogate: n-Nonane		*96.3 %*	*50-200*	*04/11/24*	*04/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415065
Chloride	ND	100	5	04/11/24	04/11/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

SW Comp 63-2'

E404082-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2415045
Benzene	ND	0.0250	1	04/11/24	04/11/24	
Ethylbenzene	ND	0.0250	1	04/11/24	04/11/24	
Toluene	ND	0.0250	1	04/11/24	04/11/24	
o-Xylene	ND	0.0250	1	04/11/24	04/11/24	
p,m-Xylene	ND	0.0500	1	04/11/24	04/11/24	
Total Xylenes	ND	0.0250	1	04/11/24	04/11/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*04/11/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2415045
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/11/24	04/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*04/11/24*	*04/11/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2415049
Diesel Range Organics (C10-C28)	ND	25.0	1	04/11/24	04/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/11/24	04/11/24	
Surrogate: n-Nonane		*86.6 %*	*50-200*	*04/11/24*	*04/11/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2415065
Chloride	ND	100	5	04/11/24	04/11/24	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415044-BLK1)									Prepared: 04/11/24 Analyzed: 04/11/24
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	*7.69*		*8.00*		*96.2*	*70-130*			
LCS (2415044-BS1)									Prepared: 04/11/24 Analyzed: 04/11/24
Benzene	4.12	0.0250	5.00		82.4	70-130			
Ethylbenzene	4.54	0.0250	5.00		90.8	70-130			
Toluene	4.50	0.0250	5.00		90.0	70-130			
o-Xylene	4.65	0.0250	5.00		92.9	70-130			
p,m-Xylene	9.30	0.0500	10.0		93.0	70-130			
Total Xylenes	13.9	0.0250	15.0		92.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.70*		*8.00*		*96.3*	*70-130*			
Matrix Spike (2415044-MS1)				**Source: E404082-03**					Prepared: 04/11/24 Analyzed: 04/12/24
Benzene	4.19	0.0250	5.00	ND	83.8	54-133			
Ethylbenzene	4.63	0.0250	5.00	ND	92.7	61-133			
Toluene	4.59	0.0250	5.00	ND	91.8	61-130			
o-Xylene	4.74	0.0250	5.00	ND	94.9	63-131			
p,m-Xylene	9.48	0.0500	10.0	ND	94.8	63-131			
Total Xylenes	14.2	0.0250	15.0	ND	94.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.70*		*8.00*		*96.3*	*70-130*			
Matrix Spike Dup (2415044-MSD1)				**Source: E404082-03**					Prepared: 04/11/24 Analyzed: 04/12/24
Benzene	4.56	0.0250	5.00	ND	91.2	54-133	8.43	20	
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133	8.21	20	
Toluene	4.99	0.0250	5.00	ND	99.8	61-130	8.40	20	
o-Xylene	5.16	0.0250	5.00	ND	103	63-131	8.49	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	8.20	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131	8.30	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.66*		*8.00*		*95.7*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415045-BLK1)									Prepared: 04/11/24 Analyzed: 04/11/24
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	*7.72*		*8.00*		*96.6*	*70-130*			
LCS (2415045-BS1)									Prepared: 04/11/24 Analyzed: 04/11/24
Benzene	4.80	0.0250	5.00		96.0	70-130			
Ethylbenzene	5.11	0.0250	5.00		102	70-130			
Toluene	5.00	0.0250	5.00		100	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	*7.62*		*8.00*		*95.3*	*70-130*			
Matrix Spike (2415045-MS1)				**Source: E404081-02**					Prepared: 04/11/24 Analyzed: 04/11/24
Benzene	4.75	0.0250	5.00	ND	95.0	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
Toluene	4.95	0.0250	5.00	ND	99.1	61-130			
o-Xylene	5.04	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.65*		*8.00*		*95.6*	*70-130*			
Matrix Spike Dup (2415045-MSD1)				**Source: E404081-02**					Prepared: 04/11/24 Analyzed: 04/11/24
Benzene	4.78	0.0250	5.00	ND	95.5	54-133	0.512	20	
Ethylbenzene	5.10	0.0250	5.00	ND	102	61-133	0.779	20	
Toluene	4.99	0.0250	5.00	ND	99.7	61-130	0.677	20	
o-Xylene	5.06	0.0250	5.00	ND	101	63-131	0.454	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	0.607	20	
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131	0.556	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.57*		*8.00*		*94.7*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415044-BLK1)									Prepared: 04/11/24 Analyzed: 04/11/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.34*		*8.00*		*91.7*	*70-130*			
LCS (2415044-BS2)									Prepared: 04/11/24 Analyzed: 04/11/24
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.44*		*8.00*		*93.1*	*70-130*			
Matrix Spike (2415044-MS2)				**Source: E404082-03**					Prepared: 04/11/24 Analyzed: 04/12/24
Gasoline Range Organics (C6-C10)	43.7	20.0	50.0	ND	87.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.44*		*8.00*		*93.0*	*70-130*			
Matrix Spike Dup (2415044-MSD2)				**Source: E404082-03**					Prepared: 04/11/24 Analyzed: 04/12/24
Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.2	70-130	4.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.50*		*8.00*		*93.8*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415045-BLK1)									Prepared: 04/11/24 Analyzed: 04/11/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.61*		*8.00*		*95.1*	*70-130*			
LCS (2415045-BS2)									Prepared: 04/11/24 Analyzed: 04/11/24
Gasoline Range Organics (C6-C10)	51.7	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.68*		*8.00*		*96.0*	*70-130*			
Matrix Spike (2415045-MS2)				**Source: E404081-02**					Prepared: 04/11/24 Analyzed: 04/11/24
Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.66*		*8.00*		*95.8*	*70-130*			
Matrix Spike Dup (2415045-MSD2)				**Source: E404081-02**					Prepared: 04/11/24 Analyzed: 04/11/24
Gasoline Range Organics (C6-C10)	52.1	20.0	50.0	ND	104	70-130	0.546	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.73*		*8.00*		*96.6*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415049-BLK1)									Prepared: 04/11/24 Analyzed: 04/11/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*45.5*		*50.0*		*90.9*	*50-200*			
LCS (2415049-BS1)									Prepared: 04/11/24 Analyzed: 04/11/24
Diesel Range Organics (C10-C28)	259	25.0	250		103	38-132			
Surrogate: n-Nonane	*45.4*		*50.0*		*90.8*	*50-200*			
Matrix Spike (2415049-MS1)				**Source: E404080-04**					Prepared: 04/11/24 Analyzed: 04/11/24
Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.4	38-132			
Surrogate: n-Nonane	*46.2*		*50.0*		*92.3*	*50-200*			
Matrix Spike Dup (2415049-MSD1)				**Source: E404080-04**					Prepared: 04/11/24 Analyzed: 04/11/24
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	3.23	20	
Surrogate: n-Nonane	*47.3*		*50.0*		*94.6*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2415050-BLK1)									Prepared: 04/11/24 Analyzed: 04/11/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*48.0*		*50.0*		*96.0*	*50-200*			
LCS (2415050-BS1)									Prepared: 04/11/24 Analyzed: 04/11/24
Diesel Range Organics (C10-C28)	273	25.0	250		109	38-132			
Surrogate: n-Nonane	*50.1*		*50.0*		*100*	*50-200*			
Matrix Spike (2415050-MS1)				**Source: E404082-03**					Prepared: 04/11/24 Analyzed: 04/11/24
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	*47.9*		*50.0*		*95.9*	*50-200*			
Matrix Spike Dup (2415050-MSD1)				**Source: E404082-03**					Prepared: 04/11/24 Analyzed: 04/12/24
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	2.07	20	
Surrogate: n-Nonane	*49.9*		*50.0*		*99.8*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2415064-BLK1)									Prepared: 04/11/24 Analyzed: 04/11/24
Chloride	ND	20.0							
LCS (2415064-BS1)									Prepared: 04/11/24 Analyzed: 04/11/24
Chloride	249	20.0	250		99.5	90-110			
Matrix Spike (2415064-MS1)				**Source: E404082-02**					Prepared: 04/11/24 Analyzed: 04/11/24
Chloride	304	100	250	ND	122	80-120			M6
Matrix Spike Dup (2415064-MSD1)				**Source: E404082-02**					Prepared: 04/11/24 Analyzed: 04/11/24
Chloride	296	100	250	ND	118	80-120	2.54	20	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/12/2024 5:20:54PM

Anions by EPA 300.0/9056A

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 (2415065-BLK1)									Prepared: 04/11/24 Analyzed: 04/11/24
Chloride	ND	20.0							
LCS (2415065-BS1)									Prepared: 04/11/24 Analyzed: 04/11/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2415065-MS1)				**Source: E404082-24**					Prepared: 04/11/24 Analyzed: 04/11/24
Chloride	257	100	250	ND	103	80-120			
Matrix Spike Dup (2415065-MSD1)				**Source: E404082-24**					Prepared: 04/11/24 Analyzed: 04/11/24
Chloride	263	100	250	ND	105	80-120	2.09	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/12/24 17:20

M6	Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.
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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 3

Client:	MACK ENERGY
Project:	WEST MOUNT #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO# E404092 | Job Number 20046-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	4/9/24	S	1	SWCOMP 40-2'	1	X	
				SWCOMP 41-2'	2		
				SWCOMP 42-2'	3		
				SWCOMP 43-2'	4		
				SWCOMP 44-2'	5		
				SWCOMP 45-2'	6		
				SWCOMP 46-2'	7		
				SWCOMP 47-2'	8		
				SWCOMP 48-2'	9		
	4/9/24	S	1	SWCOMP 49-2'	10	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: MM R M Rivera

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/9/24		Michelle Gonzales	4-10-24	1305
Michelle Gonzales	4-10-24	1610	Andrew Mtz	4-10-24	1630
Andrew Mtz	4-10-24	2230		4/11/24	0800

Lab Use Only — Received on ice: (Y) N — T1 ____ T2 ____ T3 ____ — AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Page 1011 of 1080

Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody

Client: MACK ENERGY
Project: WEST MOUNT #1
Project Manager:
Address:
City, State, Zip
Phone:
Email:
Report due by:

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E404092 | Job Number 20040-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	4/9/24	S	1	SWCOMP 50 -2'	11	X	
				SWCOMP 51-2'	12		
				SWCOMP 52-2'	13		
				SWCOMP 53-2'	14		
				SWCOMP 54-2'	15		
				SWCOMP 55-2'	16		
				SWCOMP 56-2'	17		
				SWCOMP 57-2'	18		
				SWCOMP 58-2'	19		
	4/9/24	S	1	SWCOMP 59-2'	20	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/9/23		Michelle Gonzales	4-10-24	1305
Michelle Gonzales	4-10-24	1610	Andrew Mesa	4-10-24	1630
Andrew Mesa	4-10-24	2230		4/11/24	0800

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 3 of 3

Client:	MACK ENERGY
Project:	WEST MOUNT #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E404002 | Job Number 20240-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	4/9/24	S	1	SWCOMP60-2'	21	X	
	"	"	"	SWCOMP61-2'	22	"	
	"	"	"	SWCOMP62-2'	23	"	
	4/9/24	S	1	SWCOMP63-2'	24	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: R MIRELES

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	4/9/24		Michelle Gonzales	4-10-24	1305
Michelle Gonzales	4-10-24	1610	Andrew Mobbs	4-10-24	1630
Andrew Mobbs	4-10-24	2230	[signature]	4/11/24	0800

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Envirotech Analytical Laboratory

Printed: 4/11/2024 12:42:08PM

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:	04/11/24 08:00	Work Order ID:	E404082
Phone:	(575) 390-6397	Date Logged In:	04/10/24 15:44	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	04/12/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Project manager and time sampled are not documented on the COC by client.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes

Sample Cooler

7. Was a sample cooler received?	Yes
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?	No
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes
13. If no visible ice, record the temperature. Actual sample temperature: 4°C	

Sample Container

14. Are aqueous VOC samples present?	No
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?	NA
18. Are non-VOC samples collected in the correct containers?	Yes
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:	
Sample ID?	Yes
Date/Time Collected?	Yes
Collectors name?	Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No
22. Are sample(s) correctly preserved?	NA
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

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

envirotech 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:	West Mount #1
Work Order:	E404138
Job Number:	20046-0001
Received:	4/17/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/18/24

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: 4/18/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E404138
Date Received: 4/17/2024 8:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/17/2024 8:00:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/18/24 14:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SWCOMP 64 -2'	E404138-01A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 65 -2'	E404138-02A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 66 -2'	E404138-03A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 67 -2'	E404138-04A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 68 -2'	E404138-05A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 69 -2'	E404138-06A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 70 -2'	E404138-07A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 71 -2'	E404138-08A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 72 -2'	E404138-09A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 73 -2'	E404138-10A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 74 -2'	E404138-11A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 75 -2'	E404138-12A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 76 -2'	E404138-13A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 77 -2'	E404138-14A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 78 -2'	E404138-15A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 79 -2'	E404138-16A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 80 -2'	E404138-17A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 81 -2'	E404138-18A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 82 -2'	E404138-19A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 83 -2'	E404138-20A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 84 -2'	E404138-21A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 85 -2'	E404138-22A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 86 -2'	E404138-23A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.
SWCOMP 87 -2'	E404138-24A	Soil	04/15/24	04/17/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 64 -2'

E404138-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.3 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*94.2 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*111 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.3 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*94.2 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*90.6 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**84.0**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 65 -2'

E404138-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*92.0 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**80.1**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 66 -2'

E404138-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*91.2 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**83.0**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 67 -2'

E404138-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*86.9 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.3 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*86.9 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.3 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*89.8 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**149**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 68 -2'

E404138-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*89.4 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**86.1**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 69 -2'

E404138-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*110 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*88.0 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**89.6**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 70 -2'

E404138-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*106 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*90.9 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**81.6**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 71 -2'

E404138-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*91.9 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**84.9**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 72 -2'

E404138-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.5 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.5 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*86.2 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**41.3**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 73 -2'

E404138-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.9 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.9 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*86.4 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**41.4**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 74 -2'

E404138-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*85.1 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**40.0**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 75 -2'

E404138-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.5 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.5 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*82.8 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**89.6**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 76 -2'

E404138-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.6 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*99.6 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*88.5 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**82.1**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 77 -2'

E404138-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*88.7 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**83.4**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 78 -2'

E404138-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*89.4 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**85.0**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 79 -2'

E404138-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*109 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*88.2 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**83.5**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 80 -2'

E404138-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/18/24	
Toluene	ND	0.0250	1	04/17/24	04/18/24	
o-Xylene	ND	0.0250	1	04/17/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/18/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*04/17/24*	*04/18/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*04/17/24*	*04/18/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*04/17/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/18/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*04/17/24*	*04/18/24*	
Surrogate: 1,2-Dichloroethane-d4		*95.4 %*	*70-130*	*04/17/24*	*04/18/24*	
Surrogate: Toluene-d8		*103 %*	*70-130*	*04/17/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*90.4 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**80.6**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 81 -2'

E404138-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/18/24	
Toluene	ND	0.0250	1	04/17/24	04/18/24	
o-Xylene	ND	0.0250	1	04/17/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/18/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*04/17/24*	*04/18/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*04/17/24*	*04/18/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/17/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/18/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*04/17/24*	*04/18/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*04/17/24*	*04/18/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/17/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*89.5 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**85.6**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 82 -2'

E404138-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/18/24	
Toluene	ND	0.0250	1	04/17/24	04/18/24	
o-Xylene	ND	0.0250	1	04/17/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/18/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*04/17/24*	*04/18/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*04/17/24*	*04/18/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/17/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/18/24	
Surrogate: Bromofluorobenzene		*107 %*	*70-130*	*04/17/24*	*04/18/24*	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*70-130*	*04/17/24*	*04/18/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/17/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*87.3 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**38.1**	20.0	1	04/17/24	04/18/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 83 -2'

E404138-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Benzene	ND	0.0250	1	04/17/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/18/24	
Toluene	ND	0.0250	1	04/17/24	04/18/24	
o-Xylene	ND	0.0250	1	04/17/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/18/24	
Surrogate: Bromofluorobenzene		*82.6 %*	*70-130*	*04/17/24*	*04/18/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*04/17/24*	*04/18/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/17/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416073
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/18/24	
Surrogate: Bromofluorobenzene		*82.6 %*	*70-130*	*04/17/24*	*04/18/24*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*04/17/24*	*04/18/24*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*04/17/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416068
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/18/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/18/24	
Surrogate: n-Nonane		*84.9 %*	*50-200*	*04/17/24*	*04/18/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2416077
Chloride	**38.5**	20.0	1	04/17/24	04/18/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 84 -2'

E404138-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416072
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*92.6 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.8 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416072
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*92.6 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*97.8 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416069
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/17/24	
Surrogate: n-Nonane		*87.3 %*	*50-200*	*04/17/24*	*04/17/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416080
Chloride	**89.4**	20.0	1	04/17/24	04/18/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 85 -2'

E404138-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416072
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*92.2 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*98.3 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416072
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*92.2 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*98.3 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416069
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/17/24	
Surrogate: n-Nonane		*88.7 %*	*50-200*	*04/17/24*	*04/17/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416080
Chloride	**86.0**	20.0	1	04/17/24	04/18/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 86 -2'

E404138-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416072
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*89.5 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.8 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*99.2 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416072
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*89.5 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*96.8 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*99.2 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416069
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/17/24	
Surrogate: n-Nonane		*88.2 %*	*50-200*	*04/17/24*	*04/17/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416080
Chloride	**86.8**	20.0	1	04/17/24	04/17/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

SWCOMP 87 -2'

E404138-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2416072
Benzene	ND	0.0250	1	04/17/24	04/17/24	
Ethylbenzene	ND	0.0250	1	04/17/24	04/17/24	
Toluene	ND	0.0250	1	04/17/24	04/17/24	
o-Xylene	ND	0.0250	1	04/17/24	04/17/24	
p,m-Xylene	ND	0.0500	1	04/17/24	04/17/24	
Total Xylenes	ND	0.0250	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*93.7 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*98.5 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2416072
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/17/24	04/17/24	
Surrogate: Bromofluorobenzene		*93.7 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*04/17/24*	*04/17/24*	
Surrogate: Toluene-d8		*98.5 %*	*70-130*	*04/17/24*	*04/17/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2416069
Diesel Range Organics (C10-C28)	ND	25.0	1	04/17/24	04/17/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/17/24	04/17/24	
Surrogate: n-Nonane		*86.6 %*	*50-200*	*04/17/24*	*04/17/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416080
Chloride	**89.3**	20.0	1	04/17/24	04/18/24	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2416072-BLK1)									Prepared: 04/17/24 Analyzed: 04/17/24
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: Bromofluorobenzene	*0.461*		*0.500*		*92.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.491*		*0.500*		*98.2*	*70-130*			
Surrogate: Toluene-d8	*0.497*		*0.500*		*99.3*	*70-130*			
LCS (2416072-BS1)									Prepared: 04/17/24 Analyzed: 04/17/24
Benzene	2.13	0.0250	2.50		85.0	70-130			
Ethylbenzene	2.28	0.0250	2.50		91.2	70-130			
Toluene	2.41	0.0250	2.50		96.4	70-130			
o-Xylene	2.34	0.0250	2.50		93.6	70-130			
p,m-Xylene	4.68	0.0500	5.00		93.6	70-130			
Total Xylenes	7.02	0.0250	7.50		93.6	70-130			
Surrogate: Bromofluorobenzene	*0.474*		*0.500*		*94.7*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.494*		*0.500*		*98.8*	*70-130*			
Surrogate: Toluene-d8	*0.500*		*0.500*		*100*	*70-130*			
Matrix Spike (2416072-MS1)				**Source: E404136-02**					Prepared: 04/17/24 Analyzed: 04/17/24
Benzene	2.04	0.0250	2.50	ND	81.6	48-131			
Ethylbenzene	2.25	0.0250	2.50	ND	89.9	45-135			
Toluene	2.29	0.0250	2.50	ND	91.5	48-130			
o-Xylene	2.27	0.0250	2.50	ND	91.0	43-135			
p,m-Xylene	4.60	0.0500	5.00	ND	92.0	43-135			
Total Xylenes	6.88	0.0250	7.50	ND	91.7	43-135			
Surrogate: Bromofluorobenzene	*0.482*		*0.500*		*96.3*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.514*		*0.500*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.489*		*0.500*		*97.8*	*70-130*			
Matrix Spike Dup (2416072-MSD1)				**Source: E404136-02**					Prepared: 04/17/24 Analyzed: 04/17/24
Benzene	2.40	0.0250	2.50	ND	96.0	48-131	16.3	23	
Ethylbenzene	2.43	0.0250	2.50	ND	97.1	45-135	7.74	27	
Toluene	2.58	0.0250	2.50	ND	103	48-130	11.8	24	
o-Xylene	2.43	0.0250	2.50	ND	97.0	43-135	6.43	27	
p,m-Xylene	4.89	0.0500	5.00	ND	97.8	43-135	6.07	27	
Total Xylenes	7.32	0.0250	7.50	ND	97.5	43-135	6.19	27	
Surrogate: Bromofluorobenzene	*0.475*		*0.500*		*94.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.495*		*0.500*		*98.9*	*70-130*			
Surrogate: Toluene-d8	*0.491*		*0.500*		*98.1*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2416073-BLK1)									Prepared: 04/17/24 Analyzed: 04/17/24
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: Bromofluorobenzene	*0.537*		*0.500*		*107*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.482*		*0.500*		*96.4*	*70-130*			
Surrogate: Toluene-d8	*0.568*		*0.500*		*114*	*70-130*			
LCS (2416073-BS1)									Prepared: 04/17/24 Analyzed: 04/17/24
Benzene	2.43	0.0250	2.50		97.0	70-130			
Ethylbenzene	2.50	0.0250	2.50		100	70-130			
Toluene	2.11	0.0250	2.50		84.5	70-130			
o-Xylene	2.53	0.0250	2.50		101	70-130			
p,m-Xylene	5.55	0.0500	5.00		111	70-130			
Total Xylenes	8.08	0.0250	7.50		108	70-130			
Surrogate: Bromofluorobenzene	*0.525*		*0.500*		*105*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.498*		*0.500*		*99.5*	*70-130*			
Surrogate: Toluene-d8	*0.454*		*0.500*		*90.7*	*70-130*			
Matrix Spike (2416073-MS1)				**Source: E404138-04**					Prepared: 04/17/24 Analyzed: 04/17/24
Benzene	2.37	0.0250	2.50	ND	94.8	48-131			
Ethylbenzene	2.44	0.0250	2.50	ND	97.7	45-135			
Toluene	2.34	0.0250	2.50	ND	93.6	48-130			
o-Xylene	2.44	0.0250	2.50	ND	97.7	43-135			
p,m-Xylene	4.92	0.0500	5.00	ND	98.3	43-135			
Total Xylenes	7.36	0.0250	7.50	ND	98.1	43-135			
Surrogate: Bromofluorobenzene	*0.515*		*0.500*		*103*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.487*		*0.500*		*97.4*	*70-130*			
Surrogate: Toluene-d8	*0.502*		*0.500*		*100*	*70-130*			
Matrix Spike Dup (2416073-MSD1)				**Source: E404138-04**					Prepared: 04/17/24 Analyzed: 04/17/24
Benzene	2.27	0.0250	2.50	ND	90.7	48-131	4.44	23	
Ethylbenzene	2.49	0.0250	2.50	ND	99.7	45-135	2.07	27	
Toluene	2.35	0.0250	2.50	ND	93.9	48-130	0.256	24	
o-Xylene	2.47	0.0250	2.50	ND	98.7	43-135	0.977	27	
p,m-Xylene	4.93	0.0500	5.00	ND	98.6	43-135	0.274	27	
Total Xylenes	7.40	0.0250	7.50	ND	98.6	43-135	0.508	27	
Surrogate: Bromofluorobenzene	*0.569*		*0.500*		*114*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.470*		*0.500*		*93.9*	*70-130*			
Surrogate: Toluene-d8	*0.502*		*0.500*		*100*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2416072-BLK1)									Prepared: 04/17/24 Analyzed: 04/17/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.461*		*0.500*		*92.2*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.491*		*0.500*		*98.2*	*70-130*			
Surrogate: Toluene-d8	*0.497*		*0.500*		*99.3*	*70-130*			
LCS (2416072-BS2)									Prepared: 04/17/24 Analyzed: 04/17/24
Gasoline Range Organics (C6-C10)	61.6	20.0	50.0		123	70-130			
Surrogate: Bromofluorobenzene	*0.474*		*0.500*		*94.8*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.483*		*0.500*		*96.5*	*70-130*			
Surrogate: Toluene-d8	*0.498*		*0.500*		*99.6*	*70-130*			
Matrix Spike (2416072-MS2)				**Source: E404136-02**					Prepared: 04/17/24 Analyzed: 04/17/24
Gasoline Range Organics (C6-C10)	60.7	20.0	50.0	ND	121	70-130			
Surrogate: Bromofluorobenzene	*0.468*		*0.500*		*93.5*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.474*		*0.500*		*94.8*	*70-130*			
Surrogate: Toluene-d8	*0.496*		*0.500*		*99.2*	*70-130*			
Matrix Spike Dup (2416072-MSD2)				**Source: E404136-02**					Prepared: 04/17/24 Analyzed: 04/17/24
Gasoline Range Organics (C6-C10)	60.6	20.0	50.0	ND	121	70-130	0.154	20	
Surrogate: Bromofluorobenzene	*0.473*		*0.500*		*94.6*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.490*		*0.500*		*98.0*	*70-130*			
Surrogate: Toluene-d8	*0.507*		*0.500*		*101*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2416073-BLK1)									Prepared: 04/17/24 Analyzed: 04/17/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.537*		*0.500*		*107*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.482*		*0.500*		*96.4*	*70-130*			
Surrogate: Toluene-d8	*0.568*		*0.500*		*114*	*70-130*			
LCS (2416073-BS2)									Prepared: 04/17/24 Analyzed: 04/17/24
Gasoline Range Organics (C6-C10)	60.1	20.0	50.0		120	70-130			
Surrogate: Bromofluorobenzene	*0.617*		*0.500*		*123*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.498*		*0.500*		*99.6*	*70-130*			
Surrogate: Toluene-d8	*0.444*		*0.500*		*88.7*	*70-130*			
Matrix Spike (2416073-MS2)				**Source: E404138-04**					Prepared: 04/17/24 Analyzed: 04/17/24
Gasoline Range Organics (C6-C10)	50.7	20.0	50.0	ND	101	70-130			
Surrogate: Bromofluorobenzene	*0.478*		*0.500*		*95.5*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.476*		*0.500*		*95.1*	*70-130*			
Surrogate: Toluene-d8	*0.507*		*0.500*		*101*	*70-130*			
Matrix Spike Dup (2416073-MSD2)				**Source: E404138-04**					Prepared: 04/17/24 Analyzed: 04/17/24
Gasoline Range Organics (C6-C10)	58.5	20.0	50.0	ND	117	70-130	14.2	20	
Surrogate: Bromofluorobenzene	*0.534*		*0.500*		*107*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.474*		*0.500*		*94.7*	*70-130*			
Surrogate: Toluene-d8	*0.520*		*0.500*		*104*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2416068-BLK1)									Prepared: 04/17/24 Analyzed: 04/18/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*41.9*		*50.0*		*83.9*	*50-200*			
LCS (2416068-BS1)									Prepared: 04/17/24 Analyzed: 04/18/24
Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132			
Surrogate: n-Nonane	*45.4*		*50.0*		*90.8*	*50-200*			
Matrix Spike (2416068-MS1)				**Source: E404138-03**					Prepared: 04/17/24 Analyzed: 04/18/24
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	*44.8*		*50.0*		*89.6*	*50-200*			
Matrix Spike Dup (2416068-MSD1)				**Source: E404138-03**					Prepared: 04/17/24 Analyzed: 04/18/24
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132	0.0732	20	
Surrogate: n-Nonane	*44.5*		*50.0*		*89.1*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2416069-BLK1)									Prepared: 04/17/24 Analyzed: 04/17/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*41.7*		*50.0*		*83.4*	*50-200*			
LCS (2416069-BS1)									Prepared: 04/17/24 Analyzed: 04/17/24
Diesel Range Organics (C10-C28)	264	25.0	250		106	38-132			
Surrogate: n-Nonane	*46.4*		*50.0*		*92.8*	*50-200*			
Matrix Spike (2416069-MS1)				**Source: E404136-01**					Prepared: 04/17/24 Analyzed: 04/17/24
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	*40.4*		*50.0*		*80.9*	*50-200*			
Matrix Spike Dup (2416069-MSD1)				**Source: E404136-01**					Prepared: 04/17/24 Analyzed: 04/17/24
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	38-132	0.899	20	
Surrogate: n-Nonane	*42.4*		*50.0*		*84.9*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

Anions by EPA 300.0/9056A

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 (2416077-BLK1)									Prepared: 04/17/24 Analyzed: 04/17/24
Chloride	ND	20.0							
LCS (2416077-BS1)									Prepared: 04/17/24 Analyzed: 04/17/24
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2416077-MS1)				**Source: E404138-06**					Prepared: 04/17/24 Analyzed: 04/17/24
Chloride	344	20.0	250	89.6	102	80-120			
Matrix Spike Dup (2416077-MSD1)				**Source: E404138-06**					Prepared: 04/17/24 Analyzed: 04/17/24
Chloride	345	20.0	250	89.6	102	80-120	0.258	20	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/18/2024 2:07:15PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2416080-BLK1)									Prepared: 04/17/24 Analyzed: 04/17/24
Chloride	ND	20.0							
LCS (2416080-BS1)									Prepared: 04/17/24 Analyzed: 04/17/24
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2416080-MS1)				**Source: E404138-23**					Prepared: 04/17/24 Analyzed: 04/17/24
Chloride	341	20.0	250	86.8	102	80-120			
Matrix Spike Dup (2416080-MSD1)				**Source: E404138-23**					Prepared: 04/17/24 Analyzed: 04/17/24
Chloride	346	20.0	250	86.8	104	80-120	1.60	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 #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/18/24 14:07

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 3

Client:	MACK ENERG
Project:	WEST MOUNT R
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only

Lab WO# E404138 | Job Number 20046-0001

TAT

1D	2D	3D	Standard
	X		

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX
X				

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	BGDOC NM	BGDOC TX	Remarks
	4/15/24	S	1	SWCOMP 64-2'	1							X		
				SWCOMP 65-2'	2									
				SWCOMP 66-2'	3									
				SWCOMP 67-2'	4									
				SWCOMP 68-2'	5									
				SWCOMP 69-2'	6									
				SWCOMP 70-2'	7									
				SWCOMP 71-2'	8									
				SWCOMP 72-2'	9									
	4/15/24	S	1	SWCOMP 73-2'	10							X		

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/15/24		Michelle Gonzales	4-16-24	1328
Michelle Gonzales	4-16-24	1620	Andrew	4.16.24	1800
Andrew	4.16.24	2400		4/17/24	0800

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Page 1053 of 1080

Released to Imaging: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 2 of 3

Client:	MACK ENERGY
Project:	WEST MOUM #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E404138 | Job Number 20046-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	4/15/24	S	1	SWCOMP 74-2'	11	X	
				SWCOMP 75-2'	12		
				SWCOMP 76-2'	13		
				SWCOMP 77-2'	14		
				SWCOMP 78-2'	15		
				SWCOMP 79-2'	16		
				SWCOMP 80-2'	17		
				SWCOMP 81-2'	18		
				SWCOMP 82-2'	19		
	4/15/24	S	1	SWCOMP 83-2'	20	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. Rivera

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/15/24		Michelle Gonzales	4-16-24	1328
Michelle Gonzales	4-16-24	1620	Andrew Hobbs	4.16.24	1800
Andrew Hobbs	4.16.24	2400		4/17/24	0800

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Released to Imaging: 4/17/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 3 of 3

Client:	MACK ENERGY
Project:	WESTMONTE 1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E 404138 | Job Number 20046-0001

TAT: 1D | 2D (X) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (X) | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	4/15/24	S	1	SWCOMP 84 -2'	21	X	
	"	"	"	SWCOMP 85 -2'	22	"	
	"	"	"	SWCOMP 86 -2'	23	"	
	4/15/24	S	1	SWCOMP 87 -2'	24	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. Gomez

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	4/15/24		Michelle Gonzales	4-16-24	1328
Michelle Gonzales	4-16-24	1620	Andrew Nobbo	4.16.24	1800
Andrew Nobbo	4.16.24	2400	[signature]	4/17/24	0800

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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.

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Envirotech Analytical Laboratory

Printed: 4/17/2024 9:23:33AM

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:	04/17/24 08:00	Work Order ID:	E404138
Phone:	(575) 390-6397	Date Logged In:	04/16/24 16:16	Logged In By:	Jessica Liesse
Email:	Natalie@energystaffingllc.com	Due Date:	04/18/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Project Manager and Time sampled not documented on COC by client

Client Instruction

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

envirotech 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:	West Mount #1
Work Order:	E404156
Job Number:	20046-0001
Received:	4/18/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/19/24

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: 4/19/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount #1
Workorder: E404156
Date Received: 4/18/2024 7:45:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/18/2024 7:45:00AM, under the Project Name: West Mount #1.

The analytical test results summarized in this report with the Project Name: West Mount #1 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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/19/24 11:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
COMP 56 -6'	E404156-01A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
COMP 70 -6'	E404156-02A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
COMP 71 -6'	E404156-03A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.
COMP 72 -6'	E404156-04A	Soil	04/16/24	04/18/24	Glass Jar, 2 oz.

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/19/2024 11:51:57AM

COMP 56 -6'

E404156-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2416085
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.5 %*	*70-130*	*04/18/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2416085
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*70-130*	*04/18/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416088
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*126 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416092
Chloride	**52.1**	20.0	1	04/18/24	04/18/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/19/2024 11:51:57AM

COMP 70 -6'

E404156-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2416085
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*90.7 %*	*70-130*	*04/18/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2416085
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.9 %*	*70-130*	*04/18/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416088
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*124 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416092
Chloride	**58.3**	20.0	1	04/18/24	04/18/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/19/2024 11:51:57AM

COMP 71 -6'

E404156-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2416085
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*89.8 %*	*70-130*	*04/18/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2416085
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*04/18/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416088
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*122 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416092
Chloride	**24.7**	20.0	1	04/18/24	04/18/24	

Sample Data

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/19/2024 11:51:57AM

COMP 72 -6'

E404156-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2416085
Benzene	ND	0.0250	1	04/18/24	04/18/24	
Ethylbenzene	ND	0.0250	1	04/18/24	04/18/24	
Toluene	ND	0.0250	1	04/18/24	04/18/24	
o-Xylene	ND	0.0250	1	04/18/24	04/18/24	
p,m-Xylene	ND	0.0500	1	04/18/24	04/18/24	
Total Xylenes	ND	0.0250	1	04/18/24	04/18/24	
Surrogate: 4-Bromochlorobenzene-PID		*91.0 %*	*70-130*	*04/18/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2416085
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/18/24	04/18/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.6 %*	*70-130*	*04/18/24*	*04/18/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2416088
Diesel Range Organics (C10-C28)	ND	25.0	1	04/18/24	04/19/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/18/24	04/19/24	
Surrogate: n-Nonane		*120 %*	*50-200*	*04/18/24*	*04/19/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2416092
Chloride	**29.9**	20.0	1	04/18/24	04/18/24	

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/19/2024 11:51:57AM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2416085-BLK1)									Prepared: 04/18/24 Analyzed: 04/18/24
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	*6.94*		*8.00*		*86.7*	*70-130*			
LCS (2416085-BS1)									Prepared: 04/18/24 Analyzed: 04/18/24
Benzene	5.09	0.0250	5.00		102	70-130			
Ethylbenzene	5.19	0.0250	5.00		104	70-130			
Toluene	5.18	0.0250	5.00		104	70-130			
o-Xylene	5.11	0.0250	5.00		102	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.19*		*8.00*		*89.8*	*70-130*			
Matrix Spike (2416085-MS1)				**Source: E404142-02**					Prepared: 04/18/24 Analyzed: 04/18/24
Benzene	4.97	0.0250	5.00	ND	99.4	54-133			
Ethylbenzene	5.03	0.0250	5.00	ND	101	61-133			
Toluene	5.01	0.0250	5.00	ND	100	61-130			
o-Xylene	4.97	0.0250	5.00	ND	99.5	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.28*		*8.00*		*91.0*	*70-130*			
Matrix Spike Dup (2416085-MSD1)				**Source: E404142-02**					Prepared: 04/18/24 Analyzed: 04/18/24
Benzene	5.02	0.0250	5.00	ND	100	54-133	0.992	20	
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133	1.01	20	
Toluene	5.06	0.0250	5.00	ND	101	61-130	0.924	20	
o-Xylene	5.01	0.0250	5.00	ND	100	63-131	0.822	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.980	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	0.928	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.25*		*8.00*		*90.6*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/19/2024 11:51:57AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2416085-BLK1)									Prepared: 04/18/24 Analyzed: 04/18/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.07*		*8.00*		*88.4*	*70-130*			
LCS (2416085-BS2)									Prepared: 04/18/24 Analyzed: 04/18/24
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0		94.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.19*		*8.00*		*89.9*	*70-130*			
Matrix Spike (2416085-MS2)				**Source: E404142-02**					Prepared: 04/18/24 Analyzed: 04/18/24
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.23*		*8.00*		*90.4*	*70-130*			
Matrix Spike Dup (2416085-MSD2)				**Source: E404142-02**					Prepared: 04/18/24 Analyzed: 04/18/24
Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	94.0	70-130	0.277	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.24*		*8.00*		*90.5*	*70-130*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/19/2024 11:51:57AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2416088-BLK1)									Prepared: 04/18/24 Analyzed: 04/18/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*63.4*		*50.0*		*127*	*50-200*			
LCS (2416088-BS1)									Prepared: 04/18/24 Analyzed: 04/19/24
Diesel Range Organics (C10-C28)	312	25.0	250		125	38-132			
Surrogate: n-Nonane	*59.4*		*50.0*		*119*	*50-200*			
Matrix Spike (2416088-MS1)				**Source: E404146-01**					Prepared: 04/18/24 Analyzed: 04/18/24
Diesel Range Organics (C10-C28)	21700	500	250	22100	NR	38-132			M4
Surrogate: n-Nonane	*62.6*		*50.0*		*125*	*50-200*			
Matrix Spike Dup (2416088-MSD1)				**Source: E404146-01**					Prepared: 04/18/24 Analyzed: 04/18/24
Diesel Range Organics (C10-C28)	24200	500	250	22100	839	38-132	10.6	20	M4
Surrogate: n-Nonane	*62.1*		*50.0*		*124*	*50-200*			

QC Summary Data

Mack Energy	Project Name:	West Mount #1	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	4/19/2024 11:51:57AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2416092-BLK1)									Prepared: 04/18/24 Analyzed: 04/18/24
Chloride	ND	20.0							
LCS (2416092-BS1)									Prepared: 04/18/24 Analyzed: 04/18/24
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2416092-MS1)				**Source: E404146-01**					Prepared: 04/18/24 Analyzed: 04/18/24
Chloride	11800	200	250	12200	NR	80-120			M4
Matrix Spike Dup (2416092-MSD1)				**Source: E404146-01**					Prepared: 04/18/24 Analyzed: 04/18/24
Chloride	11300	200	250	12200	NR	80-120	4.39	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

Mack Energy	Project Name:	West Mount #1	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	04/19/24 11:51

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: 7/7/2025 2:18:32 PM
Received by OCD: 5/14/2025 8:53:25 AM

Project Information | Chain of Custody | Page 1 of 1

Client:	MACK ENERGY
Project:	WEST MOUND #1
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To
Attention: ENERGY STAFFING SERVICES
Address: 2724 NW COUNTY RD
City, State, Zip HOBBS, NM 88240
Phone: 575-393-9048
Email: NATALIE@ENERGYSTAFFINGLLC.COM
BRITTNEY@ENERGYSTAFFINGLLC.COM

Lab Use Only
Lab WO# E404156 | Job Number 20046-0001

TAT: 1D | 2D X | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	Remarks
	4/16/24	S	1	COMP 56-6"	1	X	
	"	"	"	COMP 70-6"	2	"	
	"	"	"	COMP 71-6"	3	"	
	4/16/24	S	1	COMP 72-6"	4	X	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: M. RIVERA

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	4/16/24		Michelle Gonzales	4-17-24	1246
Michelle Gonzales	4-17-24	1617	Andrew Hobbs	4.17.24	1730
Andrew Hobbs	4.17.24	2400		4/18/24	0745

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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 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

Envirotech Analytical Laboratory

Printed: 4/18/2024 4:47:44PM

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:	04/18/24 07:45	Work Order ID:	E404156
Phone:	(575) 390-6397	Date Logged In:	04/17/24 17:02	Logged In By:	Alexa Michaels
Email:	Natalie@energystaffingllc.com	Due Date:	04/19/24 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
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?	No	
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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
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?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
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:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
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

Comments/Resolution

Project manager and Time sampled were not documented on COC by client

Client Instruction

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

Date

envirotech Inc.

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

General Information
Phone: (505) 629-6116

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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

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 461916
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2325464608**
Incident Name	**NAPP2325464608 WESTMOUNT FEDERAL COM #1 @ 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	WESTMOUNT FEDERAL COM #1
Date Release Discovered	09/08/2023
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 for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Other | Flow Line - Production | Produced Water | Released: 97 BBL | Recovered: 0 BBL | Lost: 97 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.*

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QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 461916
	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	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	n/a
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 05/14/2025

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QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 461916
	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 approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 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	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	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	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	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 milligrams per kilograms.)		
Chloride	(EPA 300.0 or SM4500 Cl B)	70100
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	977
GRO+DRO	(EPA SW-846 Method 8015M)	977
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 efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence		01/05/2024
On what date will (or did) the final sampling or liner inspection occur		03/26/2024
On what date will (or was) the remediation complete(d)		12/30/2024
What is the estimated surface area (in square feet) that will be reclaimed		22187
What is the estimated volume (in cubic yards) that will be reclaimed		3287
What is the estimated surface area (in square feet) that will be remediated		22187
What is the estimated volume (in cubic yards) that will be remediated		5958
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.		

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QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 461916
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	GANDY MARLEY LANDFARM/LANDFILL [fEEM0112338393]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 05/14/2025
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 (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 461916
	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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QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 461916
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**310332**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**02/05/2023**
What was the (estimated) number of samples that were to be gathered	**185**
What was the sampling surface area in square feet	**22187**

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	22187
What was the total volume (cubic yards) remediated	5958
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	22187
What was the total volume (in cubic yards) reclaimed	3287
Summarize any additional remediation activities not included by answers (above)	N/A

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

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

I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 05/14/2025

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QUESTIONS (continued)

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 461916
	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	22187
What was the total volume of replacement material (in cubic yards) for this site	3287
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.	
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)	12/20/2024
Summarize any additional reclamation activities not included by answers (above)	SITE WAS RIPPED AND NMSLO SEED MIXTURE BROADCASTED
The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 05/14/2025

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QUESTIONS (continued)

Operator:	OGRID:
MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	13837
	Action Number: 461916
	Action Type: [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.	

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

CONDITIONS

Operator: MACK ENERGY CORP P.O. Box 960 Artesia, NM 882110960	OGRID: 13837
	Action Number: 461916
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation closure and reclamation report approved, release resolved. The question regarding the minimum distance from the closest lateral extent of the release and "A wetland" was answered "Greater than 5 (mi.)". A mapped wetland and riverine are located approximately 100 feet north and southeast respectively of the release. This answer must be updated to reflect the correct distance when the next C-141 is submitted.	7/7/2025