



**WEST MOUNT SPILL H
CLOSURE REQUEST**

**API NO. 30-005-64381
Unit Letter C, Section 30, Township 15S, Range 29E
CHAVES COUNTY, NEW MEXICO**

**DATE OF RELEASE: 09/21/2023
INCIDENT NO. NAPP2329737108**

**01/16/2026
Prepared by:**



**2724 NW COUNTY ROAD
HOBBS, NM 88240**

January 16, 2026

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

Mack Energy Corporation
11344 Lovington Hwy
Artesia, NM 88210

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

API No. 30-005-64381
Incident No. NAPP2329737108
Unit Letter C, Section 30, Township 15S, Range 29E
Chaves County, New Mexico

To Whom it May Concern,

Mack Energy Corporation engaged Energy Staffing Services, LLC (ESS) to assess and remediate a produced water release that occurred on September 21, 2023, at the West Mount Spill H location (hereafter referred to as “Spill H”). Immediate notification of the release was submitted to the New Mexico Oil Conservation Division (NMOCD), District I Office via email (notification attached).

On behalf of Mack Energy Corporation, ESS subsequently submitted the initial C-141 Release Notification, along with the spill volume calculation used to determine the estimated release volume (attachments included), on October 24, 2023. The NMOCD accepted the C-141 on October 24, 2023, and assigned incident number **NAPP2329737108** to this release (confirmation correspondence attached).

This report provides a detailed summary of the spill assessment, delineation, and remedial activities conducted at the site. The information presented demonstrates that the closure criteria established under **19.15.29.12 New Mexico Administrative Code (NMAC)** have been met and that all applicable regulatory requirements have been satisfied.

This document is submitted as the final report and is intended to support NMOCD approval for closure of the above-referenced release.

1.0 Incident Description

On September 20, 2023, a produced water release occurred as a result of a failure in a lay-flat line operated by the water transfer company Well Spring. The release discharged produced water into a pasture area at the West Mount Spill H location (hereafter referred to as "Spill H").

Upon discovery of the release, Energy Staffing Services LLC (ESS) was notified and mobilized to the site to conduct an environmental site assessment in accordance with 19.15.29 NMAC. Field measurements of the impacted area were conducted to evaluate the extent of the release.

Based on field observations and measurements, the release volume was estimated to be approximately 32.78 barrels of produced water. No recoverable fluids were present at the time of assessment. Initial site documentation included photographic records and measurement of the impacted area. Initial site photographs are included as attachments.

2.0 Site Location and Characterization

2.1 Location

The Spill H release occurred on State Land at approximate coordinates 32.98947 latitude and -104.069673 longitude, located approximately 20.4 miles southeast of Hagerman, New Mexico. The legal description of the release location is Unit F, Section 30, Township 15 South, Range 29 East, Chaves County, New Mexico.

2.2 Site Setting and Land Use

Spill H is associated with production lines located near active production facilities and well pads. The release occurred within a pasture area adjacent to oil and gas operations. The site elevation is approximately 3,728 feet above mean sea level.

The surrounding land use is rangeland. Native vegetation in the area consists primarily of black grama (*Bouteloua eriopoda*), brush muhly (*Muhlenbergia porteri*), dropseed (*Sporobolus* spp.), creosotebush (*Larrea tridentata*), and other perennial grasses and forbs. Rangeland and vegetation classification documentation is provided as an attachment.

2.3 Soils

According to the United States Department of Agriculture (USDA), Natural Resources Conservation Service (NRCS), soils at the Spill H location are classified as 100 percent Tencee-Sotim association. The NRCS Soil Map is included as an attachment.

2.4 Floodplain and Surface Water

Based on the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer, the Spill H location is within an area identified as having a 0.2 percent annual chance flood hazard, corresponding to a 1 percent annual chance flood with an estimated average depth of approximately one foot or associated with drainage areas less than one square mile. FEMA flood mapping is included as an attachment.

No surface water features were identified within or adjacent to the Spill H release area. The site is not located within one-half mile of a continuously flowing watercourse or lakebed. A Watercourse Map is included as an attachment.

2.5 Karst Geology and Sensitive Features

According to mapping from the United States Department of the Interior, Bureau of Land Management (BLM), the Spill H location is classified as having low potential for karst geology. The applicable Karst Map is included as an attachment.

No critical habitats, residences, livestock water sources, or other community or environmentally sensitive features were identified in the vicinity of the Spill H release.

The water well to site according to the *New Mexico Office of the State Engineer*:

POD Number	Year Drilled	Well Depth	Water Depth	Distance from site
RA 12428	2016	170	125	6594
RA 09248	1996	150	45	8553
RA 12429 Pod 1	2016	62	27	8104
RA 10280	2003	70	40	8694
RA 09059	1996	110	35	9133
L 14514 POD 1	2018	208	77	8619

3.0 Groundwater Evaluation

An extended groundwater records search was conducted using the New Mexico Office of the State Engineer (NMOSE) Point of Diversion (POD) Location Mapping System to identify groundwater wells in the vicinity of the release.

Based on the results of this search, no registered groundwater wells were identified within a one-half (½) mile radius of the Spill B release location. Supporting documentation, including NMOSE, OSE POD, and groundwater mapping, is included as attachments to this report.

4.0 Closure Criteria Determination

Closure criteria for soils impacted by produced water releases are presented in the table below and are consistent with 19.15.29.12 NMAC.

No groundwater data are available within a one-half (½) mile radius of the release location. The release occurred on State Land, and mapping indicates the site has a low potential for karst geology. In the absence of site-specific groundwater depth data, the site was conservatively evaluated using the less than 50 feet to groundwater closure criteria category, in accordance with NMOCD guidance for sites lacking verified groundwater depth information.

Based on these conditions and the results of the site assessment and remedial activities, the applicable soil closure criteria were applied to evaluate site conditions and support closure of the release.

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

5.0 Soil Remediation Action Levels

Energy Staffing Services LLC (ESS) collected and evaluated sufficient data to demonstrate that the produced water release resulted in soil impacts at the Spill H location. All response actions, site assessment activities, and soil sampling procedures were conducted in accordance with the NMOCD “Closure Criteria for Soils Impacted by a Release” (August 14, 2018) and 19.15.29 NMAC.

This guidance document provided the framework for Mack Energy Corporation’s response actions and directed the site assessment, delineation, and sampling activities performed by ESS personnel. The following sections present the procedures and analytical methods used to delineate the extent of soil impacts associated with the Spill H release.

6.0 Soil Sampling Procedures

Soil sampling for laboratory analysis was conducted in accordance with NMOCD-approved industry standards and accepted sampling protocols. Sampling procedures were implemented to ensure representative, defensible, and compliant analytical results.

The following NMOCD-accepted soil sampling procedures were followed:

- Soil samples were collected using clean sampling equipment and placed into laboratory-supplied, airtight glass containers.
- Each sample container was clearly labeled with site identification, sample location, sample identification number, and collection date.
- Samples were immediately placed in a cooler, maintained at appropriate temperature, and packed on ice.
- Samples were shipped promptly to the analytical laboratory under proper chain-of-custody procedures.

Soil samples collected from both bottom-of-excavation (vertical) and sidewall (horizontal) locations were submitted to Envirotech Analytical Laboratory for analysis.

7.0 Laboratory Analytical Methods

Laboratory analyses were conducted using U.S. Environmental Protection Agency (EPA) approved analytical methods, as accepted by the NMOCD. The following analytical methods were used for all soil samples:

Volatile Organic Compounds

EPA Method 8021B

- Benzene
- Toluene
- Ethylbenzene
- p,m-Xylene
- o-Xylene
- Total Xylenes

Non-Halogenated Organics

EPA Method 8015D – Gasoline Range Organics (GRO)

- C6–C10

EPA Method 8015D – Diesel Range Organics (DRO) / Oil Range Organics (ORO)

- Diesel Range Organics (C10–C28)
- Oil Range Organics (C28–C36)

Anions

EPA Method 300.0 / 9056A

- Chloride

8.0 Release Investigation Data

On December 1, 2023, Energy Staffing Services, LLC (ESS) mobilized to the Spill H release location to conduct soil delineation activities in accordance with 19.15.29 NMAC and NMOCD-approved investigation procedures.

ESS established soil delineation sample locations across the affected area. Each sample location was surveyed using GPS and documented in the field. Surface soil samples were collected at each location and field screened, logged, and submitted to Envirotech Analytical Laboratory for laboratory confirmation.

A total of fourteen (14) vertical soil delineation sample locations and ten (10) horizontal (sidewall) sample locations were established to define the lateral and vertical extent of soil impacts. Soil samples were collected using a backhoe in two-foot (2-ft) depth intervals at each delineation location.

Bottom-of-excavation (vertical) samples and sidewall (horizontal) samples were submitted for laboratory analysis to confirm the extent of impacted soil and to evaluate compliance with applicable soil closure criteria.

Delineation sample results are summarized in the table below, with laboratory-confirmed results highlighted for reference. Supporting documentation, including laboratory analytical reports, delineation sample data tables, and the delineation sample location map, is included as attachments to this report.

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Dates
SP1	SURF	80	H	ND	ND	81.2	156	237.2	1440	12/1/2023
	2	400								
	4	320	L	ND	ND	ND	ND	ND	80.4	7/1/2024
SP2	SURF	80	H	ND	ND	72.5	138	210.5	1390	12/1/2023
	2	320								
	4	320	L	ND	ND	ND	ND	ND	105	7/1/2024
SP3	SURF	960	L	ND	ND	ND	ND	ND	10500	12/1/2023

	2	>4000								
	4	3440								
	6	1760								
	8	1280								
	10	960								
	12	400								
	14	240	L	ND	ND	ND	ND	ND	38.1	7/1/2024
SP4	SURF	>4000	H	ND	ND	6150	6630	12780	6440	12/1/2023
	2	1440								
	4	2400								
	6	1360								
	8	1200								
	10	1200								
	12	1440								
	14	1680								
	16	1520								
	18	1520								
	20	1600								
	22	400								
	24	80	L	ND	ND	ND	ND	ND	60.5	7/10/2024
SP5	SURF	3200	L	ND	ND	ND	ND	ND	7360	12/1/2023
	2	720								
	4	880								
	6	1120								
	8	800								
	10	640								
	12	400								
	14	240	L	ND	ND	ND	ND	ND	95	7/2/2024
SP6	SURF	>4000	L	ND	ND	ND	ND	ND	10500	12/1/2023
	2	1760								
	4	2720								
	6	1440								
	8	960								
	10	320								
	12	240	L	ND	ND	ND	ND	ND	96.3	7/2/2024
SP7	SURF	80	L	ND	ND	ND	ND	ND	ND	12/1/2023
	2	2560								

	4	2080								
	6	>4000								
	8	>4000								
	10	>4000								
	12	>4000								
	14	>4000								
	16	3520								
	18	3040								
	20	2720								
	22	480								
	24	80	L	ND	ND	ND	ND	ND	60.6	7/10/2024
SP8	SURF	160	L	ND	ND	ND	ND	ND	ND	12/1/2023
	2	960								
	4	960								
	6	720								
	8	320								
	10	320	L	ND	ND	ND	ND	ND	180	7/3/2024
SP9	SURF	80	L	ND	ND	ND	58.2	58.2	ND	12/1/2023
	2	1040								
	4	1120								
	6	880								
	8	320								
	10	240	L	ND	ND	ND	ND	ND	53.1	7/3/2024
SP10	SURF	400	L	ND	ND	ND	80.6	80.6	434	12/1/2023
	2	1200								
	4	960								
	6	800								
	8	640								
	10	400								
	12	320	L	ND	ND	ND	ND	ND	62.1	7/3/2024
SP11	SURF	160	H	ND	ND	26.5	79.5	106	42.1	12/1/2023
	2	3040								
	4	>4000								
	6	1600								
	8	1040								
	10	640								
	12	320								

	14	320	L	ND	ND	ND	ND	ND	120	7/3/2024
SP12	SURF	>4000	L	ND	ND	ND	ND	ND	20000	12/1/2023
	2	3200								
	4	3680								
	6	1680								
	8	1200								
	10	800								
	12	320								
	14	240	L	ND	ND	ND	ND	ND	62.7	7/3/2024
SP13	SURF	3200	H	ND	ND	27.7	82	109.7	3230	12/1/2023
	2	3280								
	4	3760								
	6	>4000								
	8	>4000								
	10	>4000								
	12	3440								
	14	2720								
	16	2720								
	18	2240								
	20	2080								
	22	560								
	24	80	L	ND	ND	ND	ND	ND	59.6	7/10/2024
SP14	SURF	160	L	ND	ND	ND	ND	ND	ND	12/1/2023
	2	2320								
	4	3040								
	6	3760								
	8	>4000								
	10	>4000								
	12	>4000								
	14	3440								
	16	2960								
	18	2640								
	20	2080								
	22	240								
	24	80	L	ND	ND	ND	ND	ND	60.5	7/10/2024
SW1	SURF	160	L	ND	ND	ND	59.3	59.3	ND	12/1/2023
	1	640								

	2	320								
	3	160	K	ND	ND	ND	ND	ND	37.7	7/8/2024
SW2	SURF	80	L	ND	ND	ND	57.1	57.1	ND	12/1/2023
	1	3440								
	2	2000								
	3	1120								
	4	400								
	5	320	L	ND	ND	ND	ND	ND	92.1	7/8/2024
SW3	SURF	>4000	L	ND	ND	ND	ND	ND	10600	12/1/2023
	1	720								
	2	720								
	3	320								
	4	240	L	ND	ND	ND	ND	ND	60.9	7/8/2024
SW4	SURF	480	H	ND	ND	60	165	225	716	12/1/2023
	1	2880								
	2	1840								
	3	1040								
	4	400								
	5	240	L	ND	ND	ND	ND	ND	62.1	7/8/2024
SW5	SURF	400	H	ND	ND	11100	9800	20900	636	12/1/2023
	1	>4000								
	2	>4000								
	3	3360								
	4	2400								
	5	1680								
	6	720								
	7	400								
	8	240	L	ND	ND	ND	ND	ND	61.9	7/9/2024
SW6	SURF	>4000	L	ND	ND	ND	53.7	53.7	10300	12/1/2023
	1	1360								
	2	880								
	3	720								
	4	720								
	5	400								
	6	240	L	ND	ND	ND	ND	ND	62.7	7/9/2024

SW7	SURF	160	L	ND	ND	ND	ND	ND	ND	12/1/2023
	1	640								
	2	320								
	3	240	L	ND	ND	ND	ND	ND	21.9	7/9/2024
SW8	SURF	80	L	ND	ND	ND	ND	ND	ND	12/1/2023
	1	800								
	2	400								
	3	240	L	ND	ND	ND	ND	ND	46.4	7/9/2024
SW9	SURF	80	H	ND	ND	31	131	162	40.2	12/1/2023
	1	640								
	2	400								
	3	240	L	ND	ND	ND	ND	ND	47.2	7/9/2024
SW10	SURF	160	L	ND	ND	ND	ND	ND	ND	12/1/2023
	1	720								
	2	720								
	3	320								
	4	240	L	ND	ND	ND	ND	ND	61.5	7/9/2024

9.0 Composite Sampling and Confirmation Activities

Photographic documentation of soil delineation activities is included as attachments to this report.

On September 6, 2024, Energy Staffing Services, LLC (ESS) submitted official notification to the New Mexico Oil Conservation Division (NMOCD) requesting approval to proceed with the composite sampling phase for the Spill H release. The NMOCD received and accepted this notification on September 6, 2024. Supporting email correspondence is included as an attachment.

On August 6, 2024, remediation activities progressed to the composite sampling phase within the excavation footprint at the Spill H release location. Soil composites were collected in accordance with NMOCD-approved composite sampling protocols, consisting of 200-square-foot composite sample areas.

A total of forty-five (45) bottom-of-excavation composite soil samples were collected, field screened, and submitted to Envirotech Analytical Laboratory for laboratory confirmation analysis.

Composite sample analytical results are summarized in the table below. Supporting documentation, including composite sample data tables, composite sample location maps, and laboratory analytical reports, is included as attachments to this report.

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Dates
COMP1	8	240	L	ND	ND	ND	ND	ND	76.5	9/20/2024
COMP2	4	240	L	ND	ND	ND	ND	ND	81.5	9/20/2024
COMP3	2	240	L	ND	ND	ND	ND	ND	97.2	9/20/2024
COMP4	2	240	L	ND	ND	ND	ND	ND	94.9	9/20/2024
COMP5	6	240	L	ND	ND	ND	ND	ND	90	9/20/2024
COMP6	6	240	L	ND	ND	ND	ND	ND	97.9	9/20/2024
COMP7	6	240	L	ND	ND	ND	ND	ND	89	9/20/2024
COMP8	6	240	L	ND	ND	ND	ND	ND	98	9/20/2024
COMP9	8	240	L	ND	ND	ND	ND	ND	ND	9/20/2024
COMP10	12	240	L	ND	ND	ND	ND	ND	ND	9/20/2024
COMP11	8	240	L	ND	ND	ND	ND	ND	ND	9/20/2024
COMP12	10	240	L	ND	ND	ND	ND	ND	26.1	9/20/2024
COMP13	12	240	L	ND	ND	ND	ND	ND	ND	9/20/2024
COMP14	8	240	L	ND	ND	ND	ND	ND	ND	9/20/2024
COMP15	10	240	L	ND	ND	ND	ND	ND	22.5	9/20/2024
COMP16	18	240	L	ND	ND	ND	ND	ND	ND	9/20/2024
COMP17	12	240	L	ND	ND	ND	ND	ND	ND	9/20/2024
COMP18	10	240	L	ND	ND	ND	ND	ND	28.2	9/20/2024

COMP19	20	240	L	ND	ND	ND	ND	ND	ND	9/20/2024
COMP20	12	240	L	ND	ND	ND	ND	ND	ND	9/20/2024
COMP21	10	240	L	ND	ND	ND	ND	ND	30.3	9/23/2024
COMP22	20	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
COMP23	12	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
COMP24	12	240	L	ND	ND	ND	ND	ND	33.4	9/23/2024
COMP25	20	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
COMP26	12	240	L	ND	ND	ND	ND	ND	28.4	9/23/2024
COMP27	12	240	L	ND	ND	ND	ND	ND	28.6	9/23/2024
SWCOMP1	8	240	L	ND	ND	ND	ND	ND	55.1	9/23/2024
SWCOMP2	6	240	L	ND	ND	ND	ND	ND	55.8	9/23/2024
SWCOMP3	2	240	L	ND	ND	ND	ND	ND	52.3	9/23/2024
SWCOMP4	12	240	L	ND	ND	ND	ND	ND	53.8	9/23/2024
SWCOMP5	12	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
SWCOMP6	20	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
SWCOMP7	20	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
SWCOMP8	20	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
SWCOMP9	20	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
SWCOMP10	20	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
SWCOMP11	12	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
SWCOMP12	12	240	L	ND	ND	ND	ND	ND	ND	9/23/2024

SWCOMP13	12	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
SWCOMP14	10	240	L	ND	ND	ND	ND	ND	24.2	9/24/2024
SWCOMP15	10	240	L	ND	ND	ND	ND	ND	24.1	9/24/2024
SWCOMP16	8	240	L	ND	ND	ND	ND	ND	26.8	9/24/2024
SWCOMP17	6	240	L	ND	ND	ND	ND	ND	26.4	9/24/2024
SWCOMP18	8	240	L	ND	ND	ND	ND	ND	26.1	9/24/2024

10.0 Remediation Activities and Site Restoration

Photographic documentation of remediation activities is included as attachments to this report.

The total impacted area associated with the Spill H release measured approximately 5,396 square feet. During remediation activities, a total of 3,700 cubic yards of impacted soil was excavated and transported for disposal at Gandy’s Disposal Facility.

Following excavation, 3,940 cubic yards of clean fill material were hauled from Gandy’s Disposal Facility to the site and stockpiled for backfilling. In addition, 372 cubic yards of topsoil were transported from Mack Energy’s Bogel Pit and placed at the site to restore surface conditions.

The excavation area was subsequently backfilled, contoured, and graded to restore the site to its natural grade and drainage patterns. Final site stabilization included seeding with appropriate native vegetation. Backfilling and seeding activities were completed on January 14, 2025.

Final site condition photographs documenting restoration and stabilization are included as attachments to this report.

11.0 Closure Request

On behalf of Mack Energy Corporation, Energy Staffing Services, LLC (ESS) respectfully requests closure of Incident No. NAPP2329737108, associated with the produced water release that occurred within the pasture area at the West Mount Spill H location.

Mack Energy Corporation and ESS certify that all information presented in this report is true, accurate, and complete to the best of their knowledge. Furthermore, both entities certify that all response actions, remediation activities, and confirmation sampling were conducted in compliance with 19.15.29 NMAC and all applicable New Mexico Oil Conservation Division (NMOCD) closure requirements.

Based on the assessment, remediation, confirmation sampling results, and site restoration activities documented herein, the Spill H release meets the applicable criteria for regulatory closure.

Should the NMOCD require additional information or have questions regarding this closure request, please contact the undersigned at (575) 390-6397 or (575) 393-9048, or via email at natalies@energystaffingllc.com.

Sincerely,



Natalie Ragsdal

Director of Environmental and Regulatory Services

Energy Staffing Services, LLC.

2724 NW County Road

Hobbs, NM 88240

Cell: 575-390-6397

Office: 575-393-9048

Email: natalie@energystaffingllc.com



Attachments

Spill Notification
Initial C141 and Spill Calculator Form
Impact Map
Initial Site Photos
Site Map
Rangeland and Vegetation Classification
Soil Map
FEMA National Flood Hazard Layer Map
Karst Geology Map
Watercourse Water Map
Groundwater Information
Groundwater Map
OSE POD Map
Delineation Sample Data
Delineation Sample Map and GPS Log
Lab Analysis for Delineation
Delineation Site Photos
Composite Notification
Composite Sample Data
Composite Sample Map and GPS Log
Lab analysis for Remediation
Remediation and Final Photos
Final C141
Executive Reclamation Report

Natalie Gladden

From: OCDOnline@state.nm.us
Sent: Tuesday, October 24, 2023 10:19 AM
To: Natalie Gladden
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 278755

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#) nAPP2329737108, 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 nAPP2329737108, 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

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 # <i>(assigned by OCD)</i>
Contact mailing address 11344 Lovington Highway, Artesia NM 88210	

Location of Release Source

Latitude 32.98947 Longitude -104.069673
(NAD 83 in decimal degrees to 5 decimal places)

Site Name WEST MOUNT SPILL H	Site Type PRODUCTION AREA
Date Release Discovered 9/21/2023	API# <i>(if applicable)</i> 30-005-64381

Unit Letter	Section	Township	Range	County
C	30	15S	29E	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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 32.78	Volume Recovered (bbls) 0BBLs
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

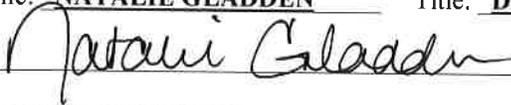
The water transfer company Well Spring found a failure on their lay flat line, releasing the fluid to the pasture area.

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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 to the OCD, Bratcher, Hamlet, Venegas, on 9/22 at 4:12pm	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> 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: <u>NATALIE GLADDEN</u> Title: <u>DIRECTOR OF ENVIRONMENTAL AND REGULATORY</u> Signature: <u></u> Date: <u>10/24/23</u> email: <u>natalie@energystaffingll.com</u> Telephone: <u>575-390-6397</u>
<u>OCD Only</u> Received by: _____ Date: _____

MACK ENERGY - WEST MOUNT SPILL H

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	119.36	74.26	0.083	735.68491	32.78	Medium Sand
Coarse Sand	0.26	10	10	0.083	8.3	0.38	Coarse Sand
Gravelly Sand	0.26	10	10	0.083	8.3	0.38	Gravelly Sand
Fine Gravel	0.26	10	10	0.083	8.3	0.38	Fine Gravel
Medium Gravel	0.20	10	10	0.083	8.3	0.30	Medium Gravel
Coarse Gravel	0.18	10	10	0.083	8.3	0.27	Coarse Gravel
Sandstone	0.25	10	10	0.083	8.3	0.37	Sandstone
Siltstone	0.18	10	10	0.083	8.3	0.27	Siltstone
Shale	0.05	10	10	0.083	8.3	0.07	Shale
Limestone	0.13	10	10	0.083	8.3	0.19	Limestone
Basalt	0.19	10	10	0.083	8.3	0.28	Basalt
Volcanic Tuff	0.20	10	10	0.083	8.3	0.30	Volcanic Tuff
Standing Liquids	X	10	10	0.083	8.3	1.48	Standing Liquids

1	2	3	4	5	6
0.083	0.166	0.250	0.332	0.415	0.500
7	8	9	10	11	12
0.581	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 required (i.e. a release is estimated to be greater than or less than 5 barrel volumes)

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

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

Cubic Feet = L x W x D
 Estimated Barrels = ((Cubic Feet x Porosity) / 5.61)

Legend

 Mack Energy, West Mount #1\u2026frac line spill H 4906 SQ. FT.



100 ft

**WEST MOUNT SPILL H
INITIAL SITE PHOTOS**

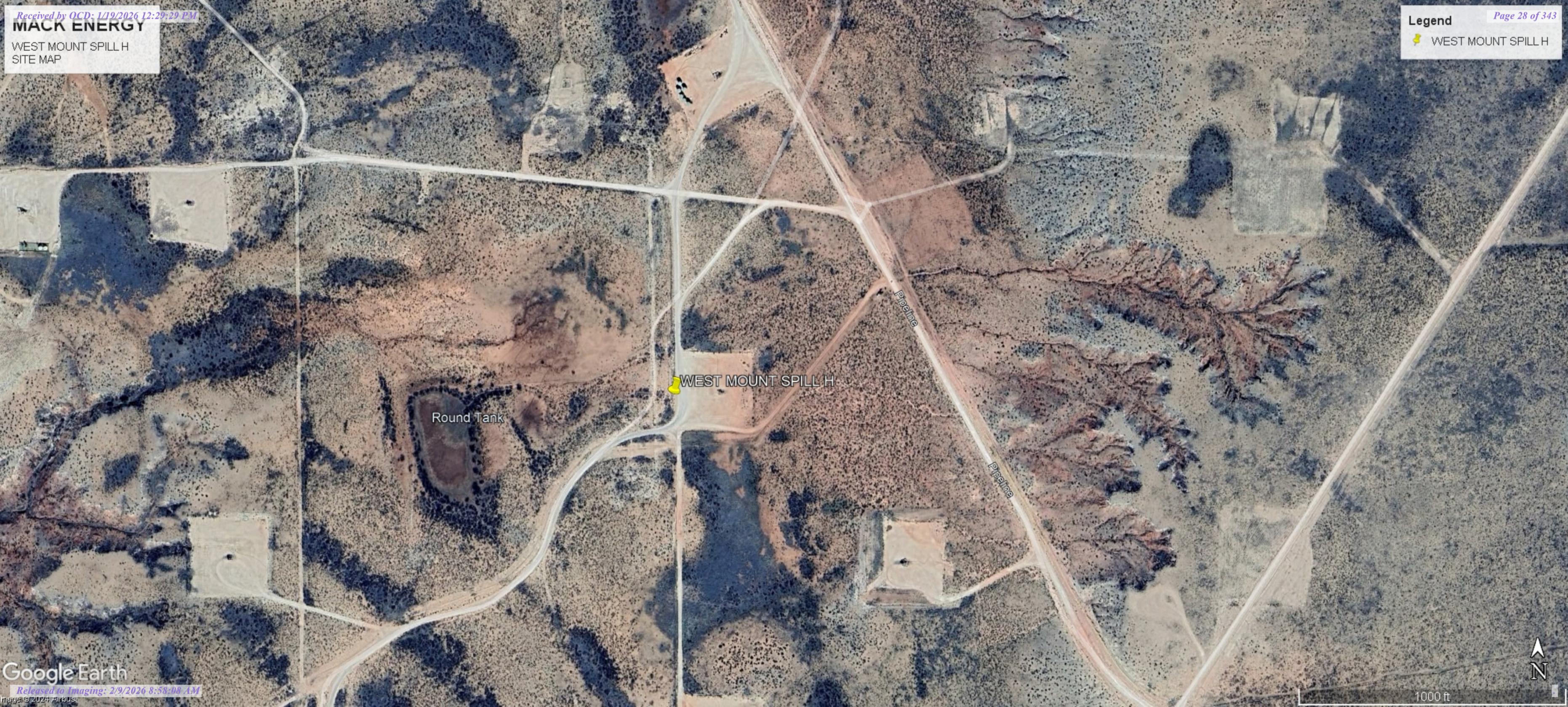












WEST MOUNT SPILL H

Round Tank

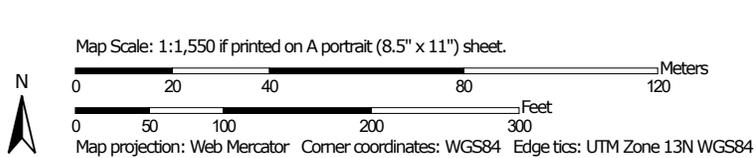
Pipeline

Pipeline

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



Soil Map may not be valid at this scale.



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

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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
TS	Tencee-Sotim association	11.1	100.0%
Totals for Area of Interest		11.1	100.0%

National Flood Hazard Layer FIRMMette



104°4'30"W 32°59'37"N



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
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation 17.5
		Coastal Transect
		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

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

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

1:6,000

104°3'52"W 32°59'7"N

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

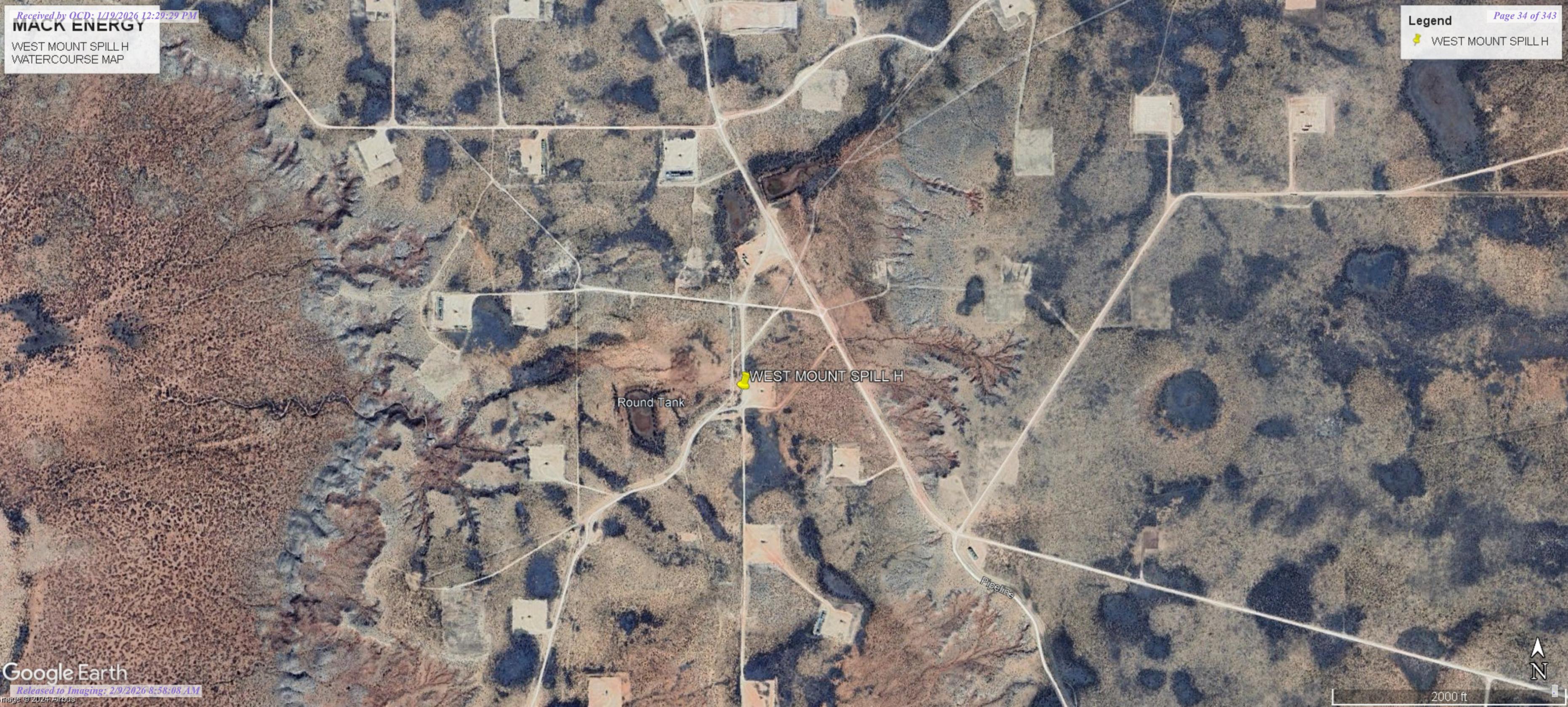
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/5/2024 at 10:40 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by 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.

Legend

- High
- Low
- Medium
- WEST MOUNT SPILL H







New Mexico Office of the State Engineer

Wells with Well Log Information

No wells found.

UTMNA83 Radius Search (in meters):

Easting (X): 586919.16

Northing (Y): 3650503.83

Radius: 1000

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

6/5/24 8:49 AM

Page 1 of 1

WELLS WITH WELL LOG INFORMATION



New Mexico Office of the State Engineer

Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 586919.16

Northing (Y): 3650503.83

Radius: 5000

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

6/5/24 8:50 AM

Page 1 of 1

WELLS WITH WELL LOG INFORMATION



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-Code	basin	County	Source	q 6	q 4	q 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		6594	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		8104	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*		8553	07/10/1996	07/13/1996	07/25/1996	150	45	RAYMOND ANDERSON	1344
L 14514 POD1	L	LE	Shallow	2	2	1	32	15S	36E	595494	3649622		8619	08/09/2018	08/10/2018	08/17/2018	208	77	JOHN GOERTZEN	1611
RA 10280	RA	CH	Shallow	4	3	3	17	15S	28E	578501	3652680*		8694	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*		9133	11/13/1995	01/15/1996	02/08/1997	110	35	RAYMOND ANDERSON	1344

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 586919.16

Northing (Y): 3650503.83

Radius: 10000

*UTM location was derived from PLSS - see Help

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



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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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

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)	(NAD83 UTM in meters)						
		Q64 Q16 Q4 Sec Tws Rng	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
20765	L 14514 POD1	2	2	1	32	15S	36E	595494	3649622

Driller License: 1611	Driller Company: GOERTZEN DRILLING	
Driller Name: JOHN GOERTZEN		
Drill Start Date: 08/09/2018	Drill Finish Date: 08/10/2018	Plug Date:
Log File Date: 08/17/2018	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 5.00	Depth Well: 208 feet	Depth Water: 77 feet

Water Bearing Stratifications:	Top	Bottom	Description
	104	125	Sandstone/Gravel/Conglomerate
	125	150	Sandstone/Gravel/Conglomerate
	150	160	Sandstone/Gravel/Conglomerate
	162	175	Other/Unknown
	175	185	Sandstone/Gravel/Conglomerate
	185	202	Sandstone/Gravel/Conglomerate
	202	205	Other/Unknown
	205	208	Other/Unknown

Casing Perforations:	Top	Bottom
	0	208

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.

Legend

- L14514 POD1-8,619-77 FT
- RA09248-8,553-45 FT
- RA10280-8,694-40 FT
- RA12428-6,594-125 FT
- RA12429 POD1-8,104-27 FT
- WEST MOUNT SPILL H



RA09248-8,553-45 FT RA10280-8,694-40 FT

RA12428-6,594-125 FT

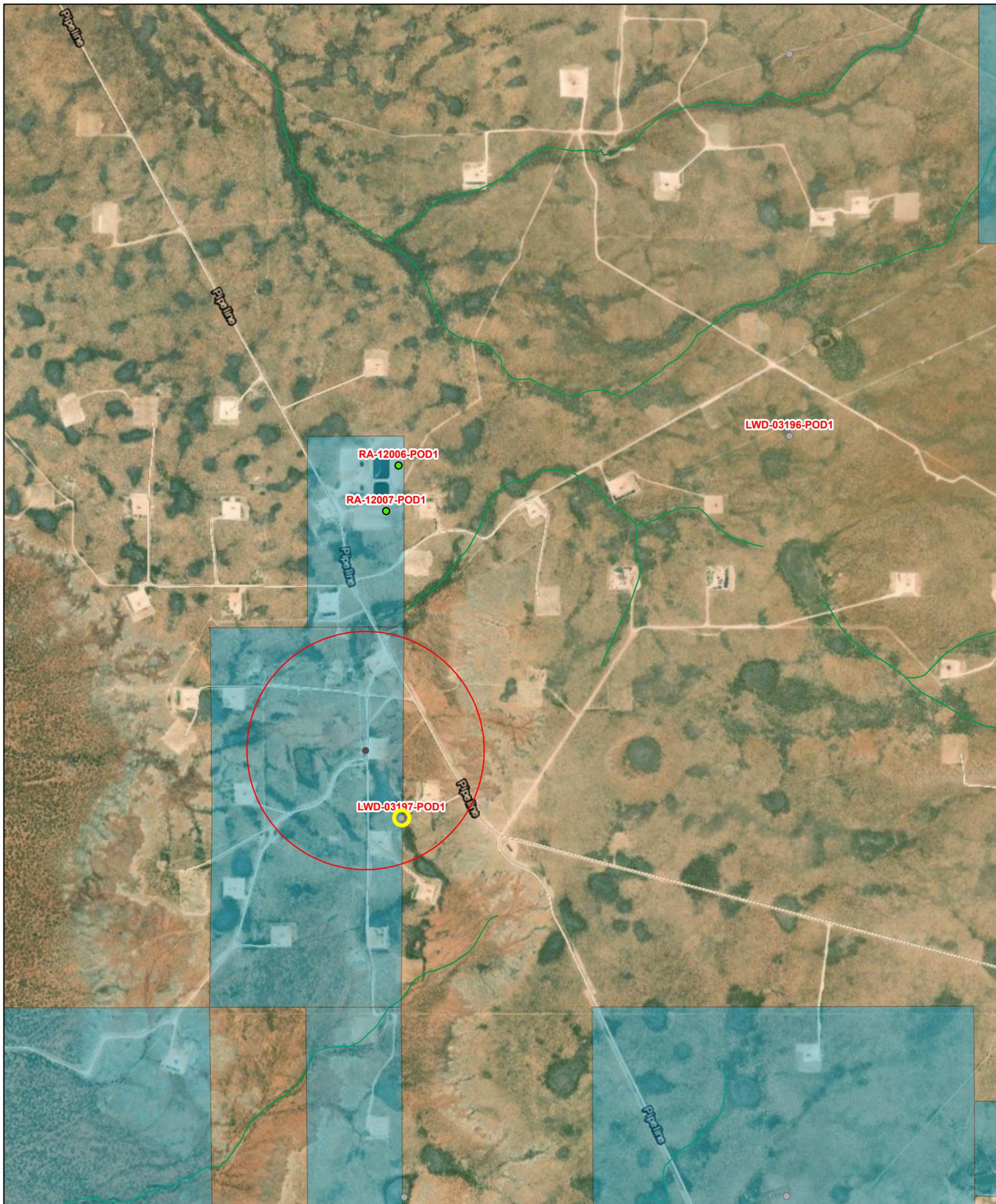
WEST MOUNT SPILL H

RA12429 POD1-8,104-27 FT

L14514 POD1-8,619-77 FT



OSE POD Location Map



6/21/2024, 12:26:21 PM

GIS WATERS PODs

- Pending
-

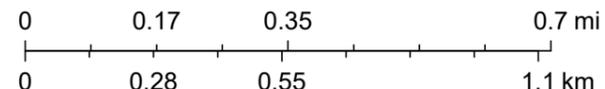
New Mexico State Trust Lands

- Both Estates
- NHD Flowlines

OSE District Boundary

- Artificial Path
- Stream River

1:18,056



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

Company Name: MACK

Location Name: WEST MOUNT SPILL H

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Dates
SP1	SURF	80	H	ND	ND	81.2	156	237.2	1440	12/1/2023
	2	400								
	4	320	L	ND	ND	ND	ND	ND	80.4	7/1/2024
SP2	SURF	80	H	ND	ND	72.5	138	210.5	1390	12/1/2023
	2	320								
	4	320	L	ND	ND	ND	ND	ND	105	7/1/2024
SP3	SURF	960	L	ND	ND	ND	ND	ND	10500	12/1/2023
	2	>4000								
	4	3440								
	6	1760								
	8	1280								
	10	960								
	12	400								
	14	240	L	ND	ND	ND	ND	ND	38.1	7/1/2024
SP4	SURF	>4000	H	ND	ND	6150	6630	12780	6440	12/1/2023
	2	1440								
	4	2400								
	6	1360								
	8	1200								
	10	1200								
	12	1440								
	14	1680								
	16	1520								
	18	1520								
	20	1600								
	22	400								
	24	80	L	ND	ND	ND	ND	ND	60.5	7/10/2024

SP5	SURF	3200	L	ND	ND	ND	ND	ND	7360	12/1/2023
	2	720								
	4	880								
	6	1120								
	8	800								
	10	640								
	12	400								
	14	240	L	ND	ND	ND	ND	ND	95	7/2/2024
SP6	SURF	>4000	L	ND	ND	ND	ND	ND	10500	12/1/2023
	2	1760								
	4	2720								
	6	1440								
	8	960								
	10	320								
	12	240	L	ND	ND	ND	ND	ND	96.3	7/2/2024
SP7	SURF	80	L	ND	ND	ND	ND	ND	ND	12/1/2023
	2	2560								
	4	2080								
	6	>4000								
	8	>4000								
	10	>4000								
	12	>4000								
	14	>4000								
	16	3520								
	18	3040								
	20	2720								
	22	480								
	24	80	L	ND	ND	ND	ND	ND	60.6	7/10/2024
SP8	SURF	160	L	ND	ND	ND	ND	ND	ND	12/1/2023
	2	960								
	4	960								

	6	720								
	8	320								
	10	320	L	ND	ND	ND	ND	ND	180	7/3/2024
SP9	SURF	80	L	ND	ND	ND	58.2	58.2	ND	12/1/2023
	2	1040								
	4	1120								
	6	880								
	8	320								
	10	240	L	ND	ND	ND	ND	ND	53.1	7/3/2024
SP10	SURF	400	L	ND	ND	ND	80.6	80.6	434	12/1/2023
	2	1200								
	4	960								
	6	800								
	8	640								
	10	400								
	12	320	L	ND	ND	ND	ND	ND	62.1	7/3/2024
SP11	SURF	160	H	ND	ND	26.5	79.5	106	42.1	12/1/2023
	2	3040								
	4	>4000								
	6	1600								
	8	1040								
	10	640								
	12	320								
	14	320	L	ND	ND	ND	ND	ND	120	7/3/2024
SP12	SURF	>4000	L	ND	ND	ND	ND	ND	20000	12/1/2023
	2	3200								
	4	3680								
	6	1680								
	8	1200								
	10	800								

	12	320								
	14	240	L	ND	ND	ND	ND	ND	62.7	7/3/2024
SP13	SURF	3200	H	ND	ND	27.7	82	109.7	3230	12/1/2023
	2	3280								
	4	3760								
	6	>4000								
	8	>4000								
	10	>4000								
	12	3440								
	14	2720								
	16	2720								
	18	2240								
	20	2080								
	22	560								
	24	80	L	ND	ND	ND	ND	ND	59.6	7/10/2024
SP14	SURF	160	L	ND	ND	ND	ND	ND	ND	12/1/2023
	2	2320								
	4	3040								
	6	3760								
	8	>4000								
	10	>4000								
	12	>4000								
	14	3440								
	16	2960								
	18	2640								
	20	2080								
	22	240								
	24	80	L	ND	ND	ND	ND	ND	60.5	7/10/2024
SW1	SURF	160	L	ND	ND	ND	59.3	59.3	ND	12/1/2023
	1	640								
	2	320								

	3	160	K	ND	ND	ND	ND	ND	37.7	7/8/2024
SW2	SURF	80	L	ND	ND	ND	57.1	57.1	ND	12/1/2023
	1	3440								
	2	2000								
	3	1120								
	4	400								
	5	320	L	ND	ND	ND	ND	ND	92.1	7/8/2024
SW3	SURF	>4000	L	ND	ND	ND	ND	ND	10600	12/1/2023
	1	720								
	2	720								
	3	320								
	4	240	L	ND	ND	ND	ND	ND	60.9	7/8/2024
SW4	SURF	480	H	ND	ND	60	165	225	716	12/1/2023
	1	2880								
	2	1840								
	3	1040								
	4	400								
	5	240	L	ND	ND	ND	ND	ND	62.1	7/8/2024
SW5	SURF	400	H	ND	ND	11100	9800	20900	636	12/1/2023
	1	>4000								
	2	>4000								
	3	3360								
	4	2400								
	5	1680								
	6	720								
	7	400								
	8	240	L	ND	ND	ND	ND	ND	61.9	7/9/2024
SW6	SURF	>4000	L	ND	ND	ND	53.7	53.7	10300	12/1/2023
	1	1360								

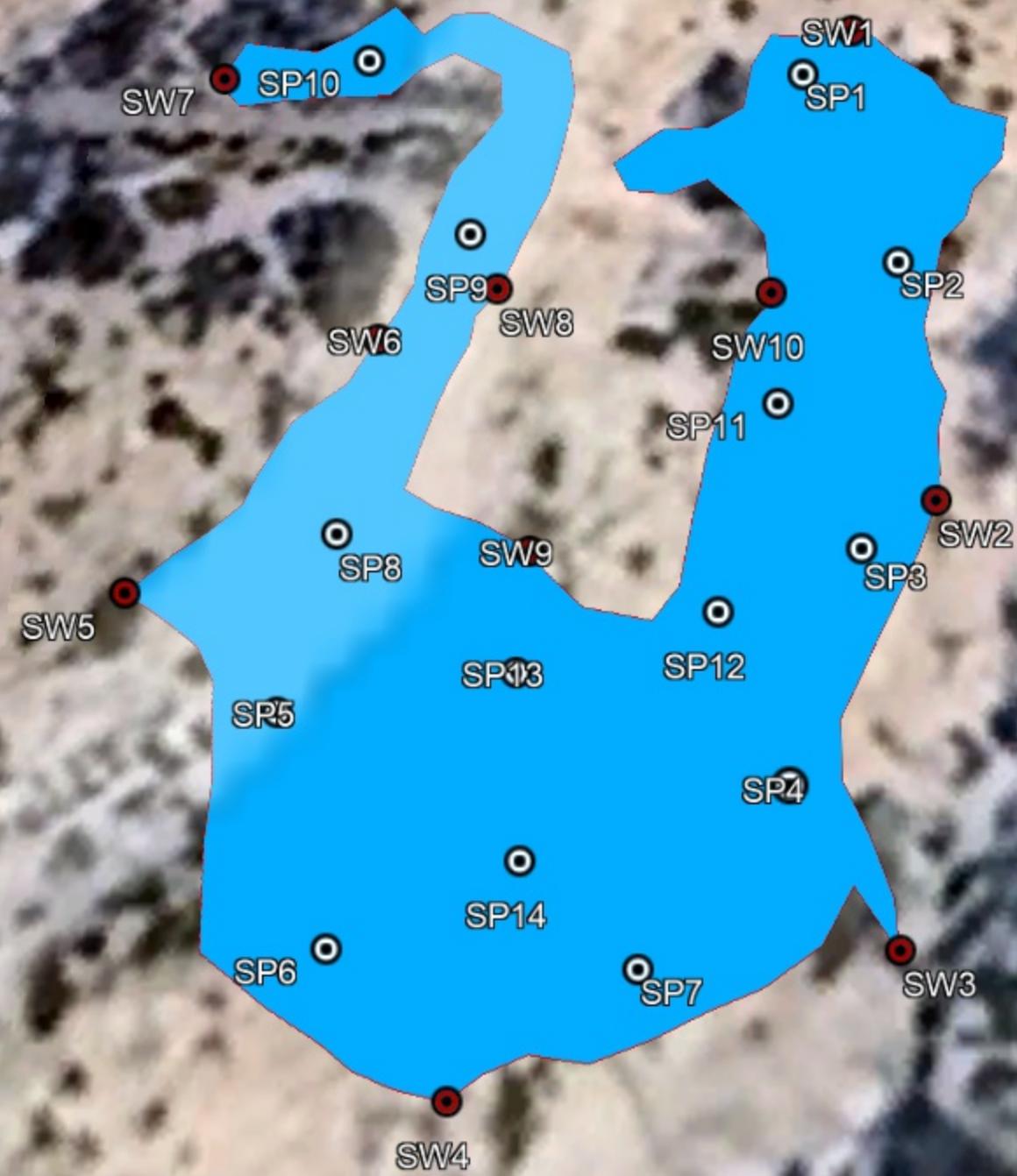
	2	880								
	3	720								
	4	720								
	5	400								
	6	240	L	ND	ND	ND	ND	ND	62.7	7/9/2024
SW7	SURF	160	L	ND	ND	ND	ND	ND	ND	12/1/2023
	1	640								
	2	320								
	3	240	L	ND	ND	ND	ND	ND	21.9	7/9/2024
SW8	SURF	80	L	ND	ND	ND	ND	ND	ND	12/1/2023
	1	800								
	2	400								
	3	240	L	ND	ND	ND	ND	ND	46.4	7/9/2024
SW9	SURF	80	H	ND	ND	31	131	162	40.2	12/1/2023
	1	640								
	2	400								
	3	240	L	ND	ND	ND	ND	ND	47.2	7/9/2024
SW10	SURF	160	L	ND	ND	ND	ND	ND	ND	12/1/2023
	1	720								
	2	720								
	3	320								
	4	240	L	ND	ND	ND	ND	ND	61.5	7/9/2024

MACK ENERGY

WEST MOUNT SPILL H
DELINEATION MAP

Legend

- HORIZONTAL SAMPLE POINTS
- █ Mack Energy- West Mount Spill H- 4906 SQ. FT.
- VERTICAL SAMPLE POINTS



CLIENTS MACK ENERGY
LOCATION WEST MOUNT SPILL H

SAMPLE ID	LAT	LONG
SP1	32.989548°	-104.069812°
SP2	32.989483°	-104.069782°
SP3	32.989395°	-104.069796°
SP4	32.989330°	-104.069818°
SP5	32.989349°	-104.069967°
SP6	32.989289°	-104.069946°
SP7	32.989285°	-104.069860°
SP8	32.989399°	-104.069955°
SP9	32.989492°	-104.069921°
SP10	32.989553°	-104.069960°
SP11	32.989438°	-104.069821°
SP12	32.989377°	-104.069839°
SP13	32.989360°	-104.069898°
SP14	32.989311°	-104.069894°
SW1	32.989564°	-104.069795°
SW2	32.989409°	-104.069773°
SW3	32.989290°	-104.069788°
SW4	32.989254°	-104.069910°
SW5	32.989382°	-104.070017°
SW6	32.989458°	-104.069948°
SW7	32.989547°	-104.070009°
SW8	32.989474°	-104.069911°
SW9	32.989394°	-104.069896°
SW10	32.989473°	-104.069823°

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill H

Work Order: E312013

Job Number: 20046-0001

Received: 12/5/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/6/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 12/6/23



Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill H
Workorder: E312013
Date Received: 12/5/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/5/2023 7:30:00AM, under the Project Name: West Mount Spill H.

The analytical test results summarized in this report with the Project Name: West Mount Spill H 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 regarding 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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Chain of Custody etc.

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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/06/23 14:51
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1-Surf	E312013-01A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SP2-Surf	E312013-02A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SP3-Surf	E312013-03A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SP4-Surf	E312013-04A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SP5-Surf	E312013-05A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SP6-Surf	E312013-06A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SP7-Surf	E312013-07A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SP8-Surf	E312013-08A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SP9-Surf	E312013-09A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SP10-Surf	E312013-10A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SP11-Surf	E312013-11A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SP12-Surf	E312013-12A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SP13-Surf	E312013-13A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SP14-Surf	E312013-14A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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**SP1-Surf
E312013-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		119 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.0 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		119 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.0 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349041
Diesel Range Organics (C10-C28)	81.2	50.0	2	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	156	100	2	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		77.7 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2349049
Chloride	1440	20.0	1	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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SP2-Surf
E312013-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		115 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.9 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		115 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.9 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349041
Diesel Range Organics (C10-C28)	72.5	50.0	2	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	138	100	2	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		75.3 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349049
Chloride	1390	20.0	1	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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SP3-Surf
E312013-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		119 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.9 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		119 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.9 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349041
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		74.8 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349049
Chloride	10500	200	10	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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SP4-Surf
E312013-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		118 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.1 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		118 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.1 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349041
Diesel Range Organics (C10-C28)	6150	1250	50	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	6630	2500	50	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		89.5 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349049
Chloride	6440	200	10	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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**SP5-Surf
E312013-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		118 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.4 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		118 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.4 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349041
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		77.1 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349049
Chloride	7360	200	10	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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SP6-Surf

E312013-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		116 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.2 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		116 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.2 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349041
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		76.6 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349049
Chloride	10500	200	10	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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SP7-Surf
E312013-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		116 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.7 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		116 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.7 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349041
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		78.1 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349049
Chloride	ND	20.0	1	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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SP8-Surf
E312013-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		117 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.8 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		117 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.8 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349041
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		77.7 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349049
Chloride	ND	20.0	1	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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SP9-Surf
E312013-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		118 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.7 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		118 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.7 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349041
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	58.2	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		84.2 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349049
Chloride	ND	20.0	1	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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SP10-Surf
E312013-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		117 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		117 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349041
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	80.6	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		81.8 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349049
Chloride	434	20.0	1	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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SP11-Surf

E312013-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		116 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.1 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		116 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.1 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349041
Diesel Range Organics (C10-C28)	26.5	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	79.5	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		82.2 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349049
Chloride	42.1	20.0	1	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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SP12-Surf

E312013-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		118 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.5 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		118 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.5 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349041
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		75.6 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2349049
Chloride	20000	200	10	12/05/23	12/05/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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SP13-Surf

E312013-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		118 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.2 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		118 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.2 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		107 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349041
Diesel Range Organics (C10-C28)	27.7	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	82.0	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		79.4 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: BA		Batch: 2349049
Chloride	3230	40.0	2	12/05/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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SP14-Surf
E312013-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		117 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.0 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349030
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		117 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.0 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349041
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		76.5 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2349049
Chloride	ND	20.0	1	12/05/23	12/06/23	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349030-BLK1)

Prepared: 12/05/23 Analyzed: 12/05/23

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	0.604		0.500		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.6	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			

LCS (2349030-BS1)

Prepared: 12/05/23 Analyzed: 12/05/23

Benzene	2.84	0.0250	2.50		113	70-130			
Ethylbenzene	2.73	0.0250	2.50		109	70-130			
Toluene	2.70	0.0250	2.50		108	70-130			
o-Xylene	2.62	0.0250	2.50		105	70-130			
p,m-Xylene	5.29	0.0500	5.00		106	70-130			
Total Xylenes	7.91	0.0250	7.50		105	70-130			
Surrogate: Bromofluorobenzene	0.597		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.465		0.500		93.0	70-130			
Surrogate: Toluene-d8	0.553		0.500		111	70-130			

Matrix Spike (2349030-MS1)

Source: E312013-08

Prepared: 12/05/23 Analyzed: 12/05/23

Benzene	2.79	0.0250	2.50	ND	111	48-131			
Ethylbenzene	2.71	0.0250	2.50	ND	108	45-135			
Toluene	2.68	0.0250	2.50	ND	107	48-130			
o-Xylene	2.64	0.0250	2.50	ND	106	43-135			
p,m-Xylene	5.28	0.0500	5.00	ND	106	43-135			
Total Xylenes	7.92	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.608		0.500		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			

Matrix Spike Dup (2349030-MSD1)

Source: E312013-08

Prepared: 12/05/23 Analyzed: 12/05/23

Benzene	2.83	0.0250	2.50	ND	113	48-131	1.67	23	
Ethylbenzene	2.75	0.0250	2.50	ND	110	45-135	1.50	27	
Toluene	2.72	0.0250	2.50	ND	109	48-130	1.32	24	
o-Xylene	2.70	0.0250	2.50	ND	108	43-135	2.21	27	
p,m-Xylene	5.42	0.0500	5.00	ND	108	43-135	2.72	27	
Total Xylenes	8.12	0.0250	7.50	ND	108	43-135	2.55	27	
Surrogate: Bromofluorobenzene	0.609		0.500		122	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349030-BLK1)

Prepared: 12/05/23 Analyzed: 12/05/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.604		0.500		121	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.6	70-130			
Surrogate: Toluene-d8	0.540		0.500		108	70-130			

LCS (2349030-BS2)

Prepared: 12/05/23 Analyzed: 12/05/23

Gasoline Range Organics (C6-C10)	54.0	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.614		0.500		123	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.559		0.500		112	70-130			

Matrix Spike (2349030-MS2)

Source: E312013-08

Prepared: 12/05/23 Analyzed: 12/05/23

Gasoline Range Organics (C6-C10)	55.5	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.599		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			

Matrix Spike Dup (2349030-MSD2)

Source: E312013-08

Prepared: 12/05/23 Analyzed: 12/05/23

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130	1.43	20	
Surrogate: Bromofluorobenzene	0.586		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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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
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Blank (2349041-BLK1)

Prepared: 12/05/23 Analyzed: 12/05/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	37.6		50.0		75.3	50-200			

LCS (2349041-BS1)

Prepared: 12/05/23 Analyzed: 12/05/23

Diesel Range Organics (C10-C28)	224	25.0	250		89.5	38-132			
Surrogate: <i>n</i> -Nonane	39.4		50.0		78.7	50-200			

Matrix Spike (2349041-MS1)

Source: E312013-07

Prepared: 12/05/23 Analyzed: 12/05/23

Diesel Range Organics (C10-C28)	221	25.0	250	ND	88.4	38-132			
Surrogate: <i>n</i> -Nonane	39.5		50.0		78.9	50-200			

Matrix Spike Dup (2349041-MSD1)

Source: E312013-07

Prepared: 12/05/23 Analyzed: 12/05/23

Diesel Range Organics (C10-C28)	223	25.0	250	ND	89.2	38-132	0.867	20	
Surrogate: <i>n</i> -Nonane	39.5		50.0		79.0	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 2:51:18PM
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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
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Blank (2349049-BLK1)

Prepared: 12/05/23 Analyzed: 12/05/23

Chloride ND 20.0

LCS (2349049-BS1)

Prepared: 12/05/23 Analyzed: 12/05/23

Chloride 256 20.0 250 102 90-110

Matrix Spike (2349049-MS1)

Source: E312013-01

Prepared: 12/05/23 Analyzed: 12/05/23

Chloride 1620 20.0 250 1440 71.9 80-120 M4

Matrix Spike Dup (2349049-MSD1)

Source: E312013-01

Prepared: 12/05/23 Analyzed: 12/05/23

Chloride 1620 20.0 250 1440 74.5 80-120 0.397 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 Spill H	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/06/23 14:51

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.



Project Information

Chain of Custody

Client: Neck Energy
 Project: Westman Spill #
 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 316013 Job Number 20046-0001
 TAT: 1D 2D 3D
 Standard CWA SDWA
 RCRA

Analysis and Method
 DRC/ORO by 8015 GRC/DRO by 8015
 BTEX by 8021 VOC by 8260
 Metals 6010 Chloride 300.0
 BGDOC NM BGDOC TX

State
 NM CO UT AZ TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRC/ORO by 8015	GRC/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	12/1/23	S	1	Sp1 - Surf	1							<input checked="" type="checkbox"/>		
				Sp2 - Surf	2									
				Sp3 - Surf	3									
				Sp4 - Surf	4									
				Sp5 - Surf	5									
				Sp6 - Surf	6									
				Sp7 - Surf	7									
				Sp8 - Surf	8									
				Sp9 - Surf	9									
	12/1/23	S	1	Sp10 - Surf	10							<input checked="" type="checkbox"/>		

Additional Instructions:

(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: Andy Toruga

Received by: (Signature) <u>Michelle Coyne</u>	Date <u>12-4-23</u>	Time <u>1315</u>	Received on ice: <u>Y/N</u>
Received by: (Signature) <u>Andrew Muso</u>	Date <u>12-4-23</u>	Time <u>1630</u>	T1 _____ T2 _____ T3 _____
Received by: (Signature) <u>Montano</u>	Date <u>12/15/23</u>	Time <u>7:80</u>	AVG Temp °C <u>4</u>

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



Project Information

Chain of Custody

Client: <u>McClure Energy</u> Project: <u>Westmount Spill #1</u> Project Manager: Address: City, State, Zip: Phone: Email:	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# <u>E 312013</u> Job Number <u>20046-000</u>		TAT 1D <input type="checkbox"/> 2D <input checked="" type="checkbox"/> 3D <input type="checkbox"/> Standard			EPA Program CWA SDWA RCRA	
	Analysis and Method							State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>	
	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	12/1/23	S	1	Sp11 - surf	11							X		
				Sp12 - surf	12									
				Sp13 - surf	13									
	12/1/23	S	1	Sp14 - 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.

Relinquished by: (Signature) Andy W... Date 12/1/23 Time Received by: (Signature) Natalie Date 12/4/23 Time 1315

Relinquished by: (Signature) Natalie Date 12/4/23 Time 1630 Received by: (Signature) Andrew Date 12/4/23 Time 1630

Relinquished by: (Signature) Andrew Date 12/4/23 Time 2245 Received by: (Signature) Montano Date 12/6/23 Time 7:30

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

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

Received on ice: Y N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

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.

Results 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 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 Analytical Laboratory

Printed: 12/5/2023 9:23:29AM

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: 12/05/23 07:30 Work Order ID: E312013
Phone: (575) 390-6397 Date Logged In: 12/04/23 15:14 Logged In By: Jordan Montano
Email: Natalie@energystaffingllc.com Due Date: 12/06/23 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes
Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Carrier: Courier

Comments/Resolution

Project manager and time sampled are not documented on 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 Yes
Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
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 filtration 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

[Empty box for client instruction]

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill H

Work Order: E312014

Job Number: 20046-0001

Received: 12/5/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/6/23

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 12/6/23



Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill H
Workorder: E312014
Date Received: 12/5/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/5/2023 7:30:00AM, under the Project Name: West Mount Spill H.

The analytical test results summarized in this report with the Project Name: West Mount Spill H 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 regarding 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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Alexa Michaels
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mgonzales@envirotech-inc.com

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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/06/23 17:11
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1-Surf	E312014-01A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SW2-Surf	E312014-02A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SW3-Surf	E312014-03A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
Sw4-Surf	E312014-04A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SW5-Suuf	E312014-05A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SW6-Surf	E312014-06A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SW7- Surf	E312014-07A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SW8-Surf	E312014-08A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
Sw9-Surf	E312014-09A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.
SW10-Surf	E312014-10A	Soil	12/01/23	12/05/23	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 5:11:35PM
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SW1-Surf
E312014-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
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Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RAS		Batch: 2349031
Benzene	ND	0.0250	1	12/05/23	12/05/23
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23
Toluene	ND	0.0250	1	12/05/23	12/05/23
o-Xylene	ND	0.0250	1	12/05/23	12/05/23
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23

<i>Surrogate: Bromofluorobenzene</i>	106 %	70-130		12/05/23	12/05/23
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.6 %	70-130		12/05/23	12/05/23
<i>Surrogate: Toluene-d8</i>	108 %	70-130		12/05/23	12/05/23

Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2349031
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23
<i>Surrogate: Bromofluorobenzene</i>	106 %	70-130		12/05/23	12/05/23
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.6 %	70-130		12/05/23	12/05/23
<i>Surrogate: Toluene-d8</i>	108 %	70-130		12/05/23	12/05/23

Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2349027
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23
Oil Range Organics (C28-C36)	59.3	50.0	1	12/05/23	12/05/23
<i>Surrogate: n-Nonane</i>	96.3 %	50-200		12/05/23	12/05/23

Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2349036
Chloride	ND	20.0	1	12/05/23	12/06/23



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 5:11:35PM
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**SW2-Surf
E312014-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Benzene	ND	0.0250	1	12/05/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/06/23	
Toluene	ND	0.0250	1	12/05/23	12/06/23	
o-Xylene	ND	0.0250	1	12/05/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	12/05/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.9 %	70-130	12/05/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	12/05/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.9 %	70-130	12/05/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349027
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	57.1	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		96.6 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349036
Chloride	ND	20.0	1	12/05/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 5:11:35PM
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SW3-Surf
E312014-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	12/05/23	12/05/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	12/05/23	12/05/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	12/05/23	12/05/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349027
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		85.3 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2349036
Chloride	10600	200	10	12/05/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 5:11:35PM
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Sw4-Surf
E312014-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Benzene	ND	0.0250	1	12/05/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/06/23	
Toluene	ND	0.0250	1	12/05/23	12/06/23	
o-Xylene	ND	0.0250	1	12/05/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	12/05/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	12/05/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	12/05/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %	70-130	12/05/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349027
Diesel Range Organics (C10-C28)	60.0	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	165	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		92.3 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349036
Chloride	716	20.0	1	12/05/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 5:11:35PM
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SW5-Suuf
E312014-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Benzene	ND	0.0250	1	12/05/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/06/23	
Toluene	ND	0.0250	1	12/05/23	12/06/23	
o-Xylene	ND	0.0250	1	12/05/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	12/05/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.0 %	70-130	12/05/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		111 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		107 %	70-130	12/05/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.0 %	70-130	12/05/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		111 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349027
Diesel Range Organics (C10-C28)	11100	500	20	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	9800	1000	20	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		71.1 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349036
Chloride	636	20.0	1	12/05/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 5:11:35PM
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SW6-Surf
E312014-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Benzene	ND	0.0250	1	12/05/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/06/23	
Toluene	ND	0.0250	1	12/05/23	12/06/23	
o-Xylene	ND	0.0250	1	12/05/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	12/05/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.3 %	70-130	12/05/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	12/05/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.3 %	70-130	12/05/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		109 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349027
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	53.7	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		89.7 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349036
Chloride	10300	200	10	12/05/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 5:11:35PM
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SW7- Surf
E312014-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Benzene	ND	0.0250	1	12/05/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/06/23	
Toluene	ND	0.0250	1	12/05/23	12/06/23	
o-Xylene	ND	0.0250	1	12/05/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	12/05/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.3 %	70-130	12/05/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		103 %	70-130	12/05/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.3 %	70-130	12/05/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349027
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		96.1 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349036
Chloride	ND	20.0	1	12/05/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 5:11:35PM
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**SW8-Surf
E312014-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Benzene	ND	0.0250	1	12/05/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/06/23	
Toluene	ND	0.0250	1	12/05/23	12/06/23	
o-Xylene	ND	0.0250	1	12/05/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	12/05/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	12/05/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	12/05/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %	70-130	12/05/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		108 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349027
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/05/23	
<i>Surrogate: n-Nonane</i>		94.7 %	50-200	12/05/23	12/05/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349036
Chloride	ND	20.0	1	12/05/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 5:11:35PM
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Sw9-Surf
E312014-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Benzene	ND	0.0250	1	12/05/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/06/23	
Toluene	ND	0.0250	1	12/05/23	12/06/23	
o-Xylene	ND	0.0250	1	12/05/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	12/05/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.9 %	70-130	12/05/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		105 %	70-130	12/05/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.9 %	70-130	12/05/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: JL		Batch: 2349027
Diesel Range Organics (C10-C28)	31.0	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	131	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		101 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2349036
Chloride	40.2	20.0	1	12/05/23	12/06/23	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 5:11:35PM
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**SW10-Surf
E312014-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Benzene	ND	0.0250	1	12/05/23	12/06/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/06/23	
Toluene	ND	0.0250	1	12/05/23	12/06/23	
o-Xylene	ND	0.0250	1	12/05/23	12/06/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/06/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	12/05/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.7 %	70-130	12/05/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2349031
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/06/23	
<i>Surrogate: Bromofluorobenzene</i>		104 %	70-130	12/05/23	12/06/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.7 %	70-130	12/05/23	12/06/23	
<i>Surrogate: Toluene-d8</i>		110 %	70-130	12/05/23	12/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2349027
Diesel Range Organics (C10-C28)	ND	25.0	1	12/05/23	12/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/05/23	12/06/23	
<i>Surrogate: n-Nonane</i>		97.1 %	50-200	12/05/23	12/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2349036
Chloride	ND	20.0	1	12/05/23	12/06/23	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 5:11:35PM
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Volatile Organic Compounds by EPA 8260B

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349031-BLK1)

Prepared: 12/05/23 Analyzed: 12/05/23

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	0.514		0.500		103		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7		70-130		
Surrogate: Toluene-d8	0.546		0.500		109		70-130		

LCS (2349031-BS1)

Prepared: 12/05/23 Analyzed: 12/05/23

Benzene	2.77	0.0250	2.50		111		70-130		
Ethylbenzene	2.68	0.0250	2.50		107		70-130		
Toluene	2.72	0.0250	2.50		109		70-130		
o-Xylene	2.55	0.0250	2.50		102		70-130		
p,m-Xylene	5.12	0.0500	5.00		102		70-130		
Total Xylenes	7.68	0.0250	7.50		102		70-130		
Surrogate: Bromofluorobenzene	0.501		0.500		100		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102		70-130		
Surrogate: Toluene-d8	0.527		0.500		105		70-130		

Matrix Spike (2349031-MS1)

Source: E312014-03

Prepared: 12/05/23 Analyzed: 12/05/23

Benzene	2.74	0.0250	2.50	ND	109		48-131		
Ethylbenzene	2.70	0.0250	2.50	ND	108		45-135		
Toluene	2.71	0.0250	2.50	ND	108		48-130		
o-Xylene	2.60	0.0250	2.50	ND	104		43-135		
p,m-Xylene	5.18	0.0500	5.00	ND	104		43-135		
Total Xylenes	7.78	0.0250	7.50	ND	104		43-135		
Surrogate: Bromofluorobenzene	0.500		0.500		99.9		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8		70-130		
Surrogate: Toluene-d8	0.532		0.500		106		70-130		

Matrix Spike Dup (2349031-MSD1)

Source: E312014-03

Prepared: 12/05/23 Analyzed: 12/05/23

Benzene	2.77	0.0250	2.50	ND	111		48-131	1.24	23
Ethylbenzene	2.68	0.0250	2.50	ND	107		45-135	0.539	27
Toluene	2.70	0.0250	2.50	ND	108		48-130	0.407	24
o-Xylene	2.61	0.0250	2.50	ND	104		43-135	0.441	27
p,m-Xylene	5.20	0.0500	5.00	ND	104		43-135	0.375	27
Total Xylenes	7.82	0.0250	7.50	ND	104		43-135	0.397	27
Surrogate: Bromofluorobenzene	0.500		0.500		100		70-130		
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100		70-130		
Surrogate: Toluene-d8	0.520		0.500		104		70-130		



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 5:11:35PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2349031-BLK1)

Prepared: 12/05/23 Analyzed: 12/05/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

LCS (2349031-BS2)

Prepared: 12/05/23 Analyzed: 12/05/23

Gasoline Range Organics (C6-C10)	51.2	20.0	50.0		102	70-130			
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.2	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

Matrix Spike (2349031-MS2)

Source: E312014-03

Prepared: 12/05/23 Analyzed: 12/05/23

Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130			
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.8	70-130			
Surrogate: Toluene-d8	0.542		0.500		108	70-130			

Matrix Spike Dup (2349031-MSD2)

Source: E312014-03

Prepared: 12/05/23 Analyzed: 12/05/23

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130	1.21	20	
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 5:11:35PM
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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
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Blank (2349027-BLK1)

Prepared: 12/05/23 Analyzed: 12/05/23

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 (2349027-BS1)

Prepared: 12/05/23 Analyzed: 12/05/23

Diesel Range Organics (C10-C28)	267	25.0	250		107	38-132			
Surrogate: n-Nonane	44.6		50.0		89.3	50-200			

Matrix Spike (2349027-MS1)

Source: E311232-03

Prepared: 12/05/23 Analyzed: 12/05/23

Diesel Range Organics (C10-C28)	3270	250	250	2080	477	38-132			M4
Surrogate: n-Nonane	39.8		50.0		79.6	50-200			

Matrix Spike Dup (2349027-MSD1)

Source: E311232-03

Prepared: 12/05/23 Analyzed: 12/05/23

Diesel Range Organics (C10-C28)	2000	250	250	2080	NR	38-132	48.4	20	M4, R2
Surrogate: n-Nonane	38.7		50.0		77.3	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 12/6/2023 5:11:35PM
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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
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Blank (2349036-BLK1)

Prepared: 12/05/23 Analyzed: 12/06/23

Chloride	ND	20.0							
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LCS (2349036-BS1)

Prepared: 12/05/23 Analyzed: 12/06/23

Chloride	246	20.0	250		98.3	90-110			
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Matrix Spike (2349036-MS1)

Source: E312012-02

Prepared: 12/05/23 Analyzed: 12/06/23

Chloride	3210	40.0	250	3000	82.8	80-120			
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Matrix Spike Dup (2349036-MSD1)

Source: E312012-02

Prepared: 12/05/23 Analyzed: 12/06/23

Chloride	3190	40.0	250	3000	74.6	80-120	0.642	20	M4
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill H	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/06/23 17:11

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.

R2 The RPD exceeded the acceptance limit.

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.



Client: <u>Mack Energy</u> Project: <u>WEST MOUNT Spill #1</u> Project Manager: Address: City, State, Zip: Phone: Email:	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# <u>E312014</u> Job Number <u>20046-0001</u>		TAT 1D <input type="checkbox"/> 2D <input checked="" type="checkbox"/> 3D <input type="checkbox"/>			EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/>		
		Analysis and Method						RCRA	
Report due by:				State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>				Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	12/1/23	S	1	SW1 - surf	1							X		
				SW2 - surf	2									
				SW3 - surf	3									
				SW4 - surf	4									
				SW5 - surf	5									
				SW6 - surf	6									
				SW7 - surf	7									
				SW8 - surf	8									
				SW9 - surf	9									
	12/1/23	S	1	SW10 - 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 mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.
 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) <u>Andy Toroga</u>	Date <u>12/1/23</u>	Time	Received by: (Signature) <u>Michelle Coyh</u>	Date <u>12-4-23</u>	Time <u>1:15</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Coyh</u>	Date <u>12-4-23</u>	Time <u>1630</u>	Received by: (Signature) <u>Andrew Miso</u>	Date <u>12-4-23</u>	Time <u>1630</u>	
Relinquished by: (Signature) <u>Andrew Miso</u>	Date <u>12-4-23</u>	Time <u>2245</u>	Received by: (Signature) <u>MONTANO</u>	Date <u>12/6/23</u>	Time <u>7:30</u>	

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 Analytical Laboratory

Printed: 12/5/2023 9:26:01AM

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: 12/05/23 07:30	Work Order ID: E312014
Phone: (575) 390-6397	Date Logged In: 12/04/23 15:15	Logged In By: Jordan Montano
Email: Natalie@energystaffingllc.com	Due Date: 12/06/23 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
 - 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
 - 5. Were all samples received within holding time? Yes
- Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Carrier: Courier

Comments/Resolution

Project manager and time sampled are not documented on 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? Yes
- Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
- 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 filtration 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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill H

Work Order: E407010

Job Number: 20046-0001

Received: 7/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/8/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/8/24



Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill H
Workorder: E407010
Date Received: 7/3/2024 10:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/3/2024 10:00:00AM, under the Project Name: West Mount Spill H.

The analytical test results summarized in this report with the Project Name: West Mount Spill H 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 regarding 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 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/08/24 13:59
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 1-4'	E407010-01A	Soil	07/01/24	07/03/24	Glass Jar, 2 oz.
SP 2-4'	E407010-02A	Soil	07/01/24	07/03/24	Glass Jar, 2 oz.
SP 3-14'	E407010-03A	Soil	07/01/24	07/03/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/8/2024 1:59:18PM
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SP 1-4'

E407010-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: RKS		Batch: 2427028
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.3 %	70-130	07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: RKS		Batch: 2427028
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.2 %	70-130	07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: KM		Batch: 2427036
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	07/03/24	07/03/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2427032
Chloride	80.4	20.0	1	07/03/24	07/03/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/8/2024 1:59:18PM
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SP 2-4'

E407010-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.6 %	70-130	07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.7 %	70-130	07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2427036
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>		105 %	50-200	07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2427032
Chloride	105	20.0	1	07/03/24	07/03/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/8/2024 1:59:18PM
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SP 3-14'

E407010-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Benzene	ND	0.0250	1	07/03/24	07/03/24	
Ethylbenzene	ND	0.0250	1	07/03/24	07/03/24	
Toluene	ND	0.0250	1	07/03/24	07/03/24	
o-Xylene	ND	0.0250	1	07/03/24	07/03/24	
p,m-Xylene	ND	0.0500	1	07/03/24	07/03/24	
Total Xylenes	ND	0.0250	1	07/03/24	07/03/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.9 %	70-130	07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2427028
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/03/24	07/03/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.9 %	70-130	07/03/24	07/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2427036
Diesel Range Organics (C10-C28)	ND	25.0	1	07/03/24	07/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/03/24	07/03/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	07/03/24	07/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2427032
Chloride	38.1	20.0	1	07/03/24	07/03/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/8/2024 1:59:18PM
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Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427028-BLK1)

Prepared: 07/03/24 Analyzed: 07/03/24

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	7.51		8.00		93.9	70-130			

LCS (2427028-BS1)

Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	4.61	0.0250	5.00		92.3	70-130			
Ethylbenzene	4.73	0.0250	5.00		94.6	70-130			
Toluene	4.75	0.0250	5.00		95.1	70-130			
o-Xylene	4.74	0.0250	5.00		94.7	70-130			
p,m-Xylene	9.61	0.0500	10.0		96.1	70-130			
Total Xylenes	14.3	0.0250	15.0		95.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike (2427028-MS1)

Source: E407011-04

Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	8.66	0.0500	10.0	ND	86.6	54-133			
Ethylbenzene	8.89	0.0500	10.0	ND	88.9	61-133			
Toluene	8.92	0.0500	10.0	ND	89.2	61-130			
o-Xylene	8.92	0.0500	10.0	ND	89.2	63-131			
p,m-Xylene	18.1	0.100	20.0	ND	90.3	63-131			
Total Xylenes	27.0	0.0500	30.0	ND	89.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	14.9		16.0		93.4	70-130			

Matrix Spike Dup (2427028-MSD1)

Source: E407011-04

Prepared: 07/03/24 Analyzed: 07/03/24

Benzene	8.72	0.0500	10.0	ND	87.2	54-133	0.741	20	
Ethylbenzene	8.96	0.0500	10.0	ND	89.6	61-133	0.842	20	
Toluene	9.00	0.0500	10.0	ND	89.9	61-130	0.854	20	
o-Xylene	9.01	0.0500	10.0	ND	90.1	63-131	1.07	20	
p,m-Xylene	18.2	0.100	20.0	ND	91.2	63-131	1.02	20	
Total Xylenes	27.3	0.0500	30.0	ND	90.9	63-131	1.04	20	
Surrogate: 4-Bromochlorobenzene-PID	15.1		16.0		94.6	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/8/2024 1:59:18PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2427028-BLK1)

Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.8	70-130			

LCS (2427028-BS2)

Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		97.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.3	70-130			

Matrix Spike (2427028-MS2)

Source: E407011-04

Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	96.2	40.0	100	ND	96.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.2		16.0		95.0	70-130			

Matrix Spike Dup (2427028-MSD2)

Source: E407011-04

Prepared: 07/03/24 Analyzed: 07/03/24

Gasoline Range Organics (C6-C10)	91.8	40.0	100	ND	91.8	70-130	4.65	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	15.3		16.0		95.8	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/8/2024 1:59:18PM
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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
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Blank (2427036-BLK1)

Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.2		50.0		98.5	50-200			

LCS (2427036-BS1)

Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	301	25.0	250		120	38-132			
Surrogate: n-Nonane	50.8		50.0		102	50-200			

Matrix Spike (2427036-MS1)

Source: E407011-02

Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	307	25.0	250	ND	123	38-132			
Surrogate: n-Nonane	51.6		50.0		103	50-200			

Matrix Spike Dup (2427036-MSD1)

Source: E407011-02

Prepared: 07/03/24 Analyzed: 07/03/24

Diesel Range Organics (C10-C28)	317	25.0	250	ND	127	38-132	3.37	20	
Surrogate: n-Nonane	52.4		50.0		105	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/8/2024 1:59:18PM
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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
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Blank (2427032-BLK1)

Prepared: 07/03/24 Analyzed: 07/03/24

Chloride	ND	20.0							
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LCS (2427032-BS1)

Prepared: 07/03/24 Analyzed: 07/03/24

Chloride	256	20.0	250		102	90-110			
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Matrix Spike (2427032-MS1)

Source: E407009-01

Prepared: 07/03/24 Analyzed: 07/03/24

Chloride	316	20.0	250	58.8	103	80-120			
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Matrix Spike Dup (2427032-MSD1)

Source: E407009-01

Prepared: 07/03/24 Analyzed: 07/03/24

Chloride	316	20.0	250	58.8	103	80-120	0.0810	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill H	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/08/24 13:59

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client: <u>Mac Energy</u>		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>West Mount Spill H</u>		Attention: ENERGY STAFFING SERVICES		Lab WO# <u>E407010</u>		Job Number <u>20046-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager:		Address: 2724 NW COUNTY RD		Analysis and Method									
Address:		City, State, Zip <u>HOBBS, NM 88240</u>		DRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010		Chloride 300.0	
City, State, Zip		Phone: 575-393-9048		BGDOC NM		BGDOC TX						RCRA	
Phone:		Email: NATALIE@ENERGYSTAFFINGLLC.COM										State	
Email:		BRITTNEY@ENERGYSTAFFINGLLC.COM										NM	
Report due by:												CO	
												UT	
												AZ	
												TX	

Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	07/01	S	1	SP 1 - 4'	1							X		
	X	S	1	SP 2 - 4'	2							S		
	07/01	S	1	SP 3 - 14'	3							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. 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) <u>Juan Solis</u>		Date <u>07/01/24</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>		Date <u>7-2-24</u>	Time <u>1405</u>	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>		Date <u>7-2-24</u>	Time <u>1615</u>	Received by: (Signature) <u>Andrea Webb</u>		Date <u>7-2-24</u>	Time <u>1700</u>	
Relinquished by: (Signature) <u>Andrea Webb</u>		Date <u>7-2-24</u>	Time <u>2345</u>	Received by: (Signature) <u>Alexa Michaels</u>		Date <u>7/3/24</u>	Time <u>1000</u>	

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 Analytical Laboratory

Printed: 7/3/2024 12:23:24PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 07/03/24 10:00	Work Order ID: E407010
Phone: (575) 390-6397	Date Logged In: 07/02/24 15:04	Logged In By: Alexa Michaels
Email: Natalie@energystaffingllc.com	Due Date: 07/08/24 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
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: Couier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
- 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 filtration 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 sampeld are not listed 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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill H

Work Order: E407027

Job Number: 20046-0001

Received: 7/8/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/9/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 7/9/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill H
Workorder: E407027
Date Received: 7/8/2024 10:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/8/2024 10:00:00AM, under the Project Name: West Mount Spill H.

The analytical test results summarized in this report with the Project Name: West Mount Spill H 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 regarding 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 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/09/24 12:39
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 5-14'	E407027-01A	Soil	07/02/24	07/08/24	Glass Jar, 2 oz.
SP 6-12'	E407027-02A	Soil	07/02/24	07/08/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/9/2024 12:39:38PM
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SP 5-14'

E407027-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2428001	
Benzene	ND	0.0250	1	07/08/24	07/08/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/08/24	
Toluene	ND	0.0250	1	07/08/24	07/08/24	
o-Xylene	ND	0.0250	1	07/08/24	07/08/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/08/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		89.0 %	70-130	07/08/24	07/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2428001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.5 %	70-130	07/08/24	07/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2427042	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/08/24	
<i>Surrogate: n-Nonane</i>						
		92.2 %	50-200	07/08/24	07/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428003	
Chloride	95.0	20.0	1	07/08/24	07/08/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/9/2024 12:39:38PM
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SP 6-12'
E407027-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2428001
Benzene	ND	0.0250	1	07/08/24	07/08/24	
Ethylbenzene	ND	0.0250	1	07/08/24	07/08/24	
Toluene	ND	0.0250	1	07/08/24	07/08/24	
o-Xylene	ND	0.0250	1	07/08/24	07/08/24	
p,m-Xylene	ND	0.0500	1	07/08/24	07/08/24	
Total Xylenes	ND	0.0250	1	07/08/24	07/08/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.8 %	70-130	07/08/24	07/08/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2428001
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/08/24	07/08/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.2 %	70-130	07/08/24	07/08/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2427042
Diesel Range Organics (C10-C28)	ND	25.0	1	07/08/24	07/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/08/24	07/08/24	
<i>Surrogate: n-Nonane</i>		91.4 %	50-200	07/08/24	07/08/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2428003
Chloride	96.3	20.0	1	07/08/24	07/08/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/9/2024 12:39:38PM
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Volatile Organics by EPA 8021B

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
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Blank (2428001-BLK1)

Prepared: 07/08/24 Analyzed: 07/08/24

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	7.16		8.00		89.5	70-130			

LCS (2428001-BS1)

Prepared: 07/08/24 Analyzed: 07/08/24

Benzene	4.65	0.0250	5.00		93.0	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.5	70-130			
Toluene	4.95	0.0250	5.00		99.1	70-130			
o-Xylene	5.02	0.0250	5.00		100	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.1	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.37		8.00		92.1	70-130			

LCS Dup (2428001-BSD1)

Prepared: 07/08/24 Analyzed: 07/08/24

Benzene	5.02	0.0250	5.00		100	70-130	7.64	20	
Ethylbenzene	4.71	0.0250	5.00		94.1	70-130	3.56	20	
Toluene	4.94	0.0250	5.00		98.7	70-130	0.368	20	
o-Xylene	4.81	0.0250	5.00		96.1	70-130	4.23	20	
p,m-Xylene	9.70	0.0500	10.0		97.0	70-130	3.40	20	
Total Xylenes	14.5	0.0250	15.0		96.7	70-130	3.67	20	
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/9/2024 12:39:38PM
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Nonhalogenated Organics by EPA 8015D - GRO

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
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Blank (2428001-BLK1)

Prepared: 07/08/24 Analyzed: 07/08/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.43		8.00		105	70-130			

LCS (2428001-BS2)

Prepared: 07/08/24 Analyzed: 07/08/24

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0		104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.64		8.00		108	70-130			

LCS Dup (2428001-BSD2)

Prepared: 07/08/24 Analyzed: 07/08/24

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0		97.9	70-130	6.47	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.67		8.00		108	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/9/2024 12:39:38PM
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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
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Blank (2427042-BLK1)

Prepared: 07/08/24 Analyzed: 07/08/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.5	50-200			

LCS (2427042-BS1)

Prepared: 07/08/24 Analyzed: 07/08/24

Diesel Range Organics (C10-C28)	254	25.0	250		101	38-132			
Surrogate: n-Nonane	50.4		50.0		101	50-200			

Matrix Spike (2427042-MS1)

Source: E407025-02

Prepared: 07/08/24 Analyzed: 07/08/24

Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	51.4		50.0		103	50-200			

Matrix Spike Dup (2427042-MSD1)

Source: E407025-02

Prepared: 07/08/24 Analyzed: 07/08/24

Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	38-132	0.869	20	
Surrogate: n-Nonane	51.7		50.0		103	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/9/2024 12:39:38PM
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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
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Blank (2428003-BLK1)

Prepared: 07/08/24 Analyzed: 07/08/24

Chloride	ND	20.0							
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LCS (2428003-BS1)

Prepared: 07/08/24 Analyzed: 07/08/24

Chloride	253	20.0	250		101	90-110			
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Matrix Spike (2428003-MS1)

Source: E407025-01

Prepared: 07/08/24 Analyzed: 07/08/24

Chloride	259	20.0	250	ND	103	80-120			
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Matrix Spike Dup (2428003-MSD1)

Source: E407025-01

Prepared: 07/08/24 Analyzed: 07/08/24

Chloride	258	20.0	250	ND	103	80-120	0.362	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill H	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/09/24 12:39

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.



Client: Macik Energy	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		TAT			EPA Program		
Project: West Mount Spill H		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
Project Manager:		E 407027	20046-0001		<input checked="" type="checkbox"/>				
Address:		Analysis and Method							RCRA
City, State, Zip		DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX
Phone:		State							
City, State, Zip	NM	CO	UT	AZ	TX				
Phone:	<input checked="" type="checkbox"/>								
Email:	Remarks								
Report due by:									

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	07/02	S	1	SP 5-14'	1							<input checked="" type="checkbox"/>		
	07/02	S	1	SP 6-12'	2							<input checked="" type="checkbox"/>		

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. 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) <i>Juan Solis</i>	Date 07/02/24	Time 1300	Received by: (Signature) <i>[Signature]</i>	Date 7-3-24	Time 1300	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <i>[Signature]</i>	Date 7-3-24	Time 1530	Received by: (Signature) <i>[Signature]</i>	Date 7-3-24	Time 1800	
Relinquished by: (Signature) <i>[Signature]</i>	Date 7-3-24	Time 2400	Received by: (Signature) <i>Alexa Michaels</i>	Date 7-8-24	Time 1000	

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 Analytical Laboratory

Printed: 7/8/2024 1:03:24PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy Date Received: 07/08/24 10:00 Work Order ID: E407027
Phone: (575) 390-6397 Date Logged In: 07/03/24 15:05 Logged In By: Alexa Michaels
Email: Natalie@energystaffingllc.com Due Date: 07/09/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Carrier: Couier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Comments/Resolution

Project manager and time sampled is not listed 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
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 filtration 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

Empty box for client instruction.

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill H

Work Order: E407038

Job Number: 20046-0001

Received: 7/9/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/10/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 7/10/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill H
Workorder: E407038
Date Received: 7/9/2024 11:20:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/9/2024 11:20:00AM, under the Project Name: West Mount Spill H.

The analytical test results summarized in this report with the Project Name: West Mount Spill H 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 regarding 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 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/10/24 14:23
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 8-10'	E407038-01A	Soil	07/03/24	07/09/24	Glass Jar, 2 oz.
SP 9-10'	E407038-02A	Soil	07/03/24	07/09/24	Glass Jar, 2 oz.
SP 10-12'	E407038-03A	Soil	07/03/24	07/09/24	Glass Jar, 2 oz.
SP 11-14'	E407038-04A	Soil	07/03/24	07/09/24	Glass Jar, 2 oz.
SP 12-14'	E407038-05A	Soil	07/03/24	07/09/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/10/2024 2:23:32PM
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SP 8-10'

E407038-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS		Batch: 2428035	
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
<i>Surrogate: Bromofluorobenzene</i>		98.6 %	70-130	07/09/24	07/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.6 %	70-130	07/09/24	07/09/24	
<i>Surrogate: Toluene-d8</i>		94.2 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2428035	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
<i>Surrogate: Bromofluorobenzene</i>		98.6 %	70-130	07/09/24	07/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		99.6 %	70-130	07/09/24	07/09/24	
<i>Surrogate: Toluene-d8</i>		94.2 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2428028	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
<i>Surrogate: n-Nonane</i>		107 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2428037	
Chloride	180	20.0	1	07/09/24	07/09/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/10/2024 2:23:32PM
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SP 9-10'

E407038-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2428035
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
<i>Surrogate: Bromofluorobenzene</i>		98.0 %	70-130	07/09/24	07/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.1 %	70-130	07/09/24	07/09/24	
<i>Surrogate: Toluene-d8</i>		94.0 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2428035
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
<i>Surrogate: Bromofluorobenzene</i>		98.0 %	70-130	07/09/24	07/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.1 %	70-130	07/09/24	07/09/24	
<i>Surrogate: Toluene-d8</i>		94.0 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2428028
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2428037
Chloride	53.1	20.0	1	07/09/24	07/09/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/10/2024 2:23:32PM
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SP 10-12'

E407038-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2428035
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
<i>Surrogate: Bromofluorobenzene</i>		98.1 %	70-130	07/09/24	07/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.2 %	70-130	07/09/24	07/09/24	
<i>Surrogate: Toluene-d8</i>		94.0 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2428035
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
<i>Surrogate: Bromofluorobenzene</i>		98.1 %	70-130	07/09/24	07/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.2 %	70-130	07/09/24	07/09/24	
<i>Surrogate: Toluene-d8</i>		94.0 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2428028
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2428037
Chloride	62.1	20.0	1	07/09/24	07/09/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/10/2024 2:23:32PM
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SP 11-14'

E407038-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2428035
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
<i>Surrogate: Bromofluorobenzene</i>		98.7 %	70-130	07/09/24	07/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.7 %	70-130	07/09/24	07/09/24	
<i>Surrogate: Toluene-d8</i>		95.2 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2428035
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
<i>Surrogate: Bromofluorobenzene</i>		98.7 %	70-130	07/09/24	07/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.7 %	70-130	07/09/24	07/09/24	
<i>Surrogate: Toluene-d8</i>		95.2 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2428028
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
<i>Surrogate: n-Nonane</i>		111 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2428037
Chloride	120	20.0	1	07/09/24	07/09/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/10/2024 2:23:32PM
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SP 12-14'

E407038-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS		Batch: 2428035
Benzene	ND	0.0250	1	07/09/24	07/09/24	
Ethylbenzene	ND	0.0250	1	07/09/24	07/09/24	
Toluene	ND	0.0250	1	07/09/24	07/09/24	
o-Xylene	ND	0.0250	1	07/09/24	07/09/24	
p,m-Xylene	ND	0.0500	1	07/09/24	07/09/24	
Total Xylenes	ND	0.0250	1	07/09/24	07/09/24	
<i>Surrogate: Bromofluorobenzene</i>		99.4 %	70-130	07/09/24	07/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.5 %	70-130	07/09/24	07/09/24	
<i>Surrogate: Toluene-d8</i>		93.2 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS		Batch: 2428035
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/09/24	07/09/24	
<i>Surrogate: Bromofluorobenzene</i>		99.4 %	70-130	07/09/24	07/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.5 %	70-130	07/09/24	07/09/24	
<i>Surrogate: Toluene-d8</i>		93.2 %	70-130	07/09/24	07/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2428028
Diesel Range Organics (C10-C28)	ND	25.0	1	07/09/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/09/24	07/10/24	
<i>Surrogate: n-Nonane</i>		113 %	50-200	07/09/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2428037
Chloride	62.7	20.0	1	07/09/24	07/09/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/10/2024 2:23:32PM
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Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2428035-BLK1)

Prepared: 07/09/24 Analyzed: 07/09/24

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: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.470		0.500		93.9	70-130			

LCS (2428035-BS1)

Prepared: 07/09/24 Analyzed: 07/09/24

Benzene	2.66	0.0250	2.50		106	70-130			
Ethylbenzene	2.50	0.0250	2.50		100	70-130			
Toluene	2.36	0.0250	2.50		94.6	70-130			
o-Xylene	2.45	0.0250	2.50		97.9	70-130			
p,m-Xylene	4.91	0.0500	5.00		98.3	70-130			
Total Xylenes	7.36	0.0250	7.50		98.2	70-130			
Surrogate: Bromofluorobenzene	0.493		0.500		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.480		0.500		95.9	70-130			

Matrix Spike (2428035-MS1)

Source: E407038-04

Prepared: 07/09/24 Analyzed: 07/09/24

Benzene	2.75	0.0250	2.50	ND	110	48-131			
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135			
Toluene	2.42	0.0250	2.50	ND	96.7	48-130			
o-Xylene	2.51	0.0250	2.50	ND	100	43-135			
p,m-Xylene	5.03	0.0500	5.00	ND	101	43-135			
Total Xylenes	7.53	0.0250	7.50	ND	100	43-135			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.475		0.500		95.0	70-130			

Matrix Spike Dup (2428035-MSD1)

Source: E407038-04

Prepared: 07/09/24 Analyzed: 07/09/24

Benzene	2.80	0.0250	2.50	ND	112	48-131	1.50	23	
Ethylbenzene	2.65	0.0250	2.50	ND	106	45-135	3.91	27	
Toluene	2.49	0.0250	2.50	ND	99.7	48-130	3.06	24	
o-Xylene	2.65	0.0250	2.50	ND	106	43-135	5.62	27	
p,m-Xylene	5.32	0.0500	5.00	ND	106	43-135	5.59	27	
Total Xylenes	7.97	0.0250	7.50	ND	106	43-135	5.60	27	
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.3	70-130			
Surrogate: Toluene-d8	0.476		0.500		95.2	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/10/2024 2:23:32PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2428035-BLK1)

Prepared: 07/09/24 Analyzed: 07/09/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.470		0.500		93.9	70-130			

LCS (2428035-BS2)

Prepared: 07/09/24 Analyzed: 07/09/24

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0		106	70-130			
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.5	70-130			
Surrogate: Toluene-d8	0.485		0.500		96.9	70-130			

Matrix Spike (2428035-MS2)

Source: E407038-04

Prepared: 07/09/24 Analyzed: 07/09/24

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130			
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			
Surrogate: Toluene-d8	0.478		0.500		95.5	70-130			

Matrix Spike Dup (2428035-MSD2)

Source: E407038-04

Prepared: 07/09/24 Analyzed: 07/09/24

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130	3.45	20	
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.5	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/10/2024 2:23:32PM
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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
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Blank (2428028-BLK1)

Prepared: 07/09/24 Analyzed: 07/10/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.3		50.0		98.6	50-200			

LCS (2428028-BS1)

Prepared: 07/09/24 Analyzed: 07/10/24

Diesel Range Organics (C10-C28)	296	25.0	250		118	38-132			
Surrogate: n-Nonane	63.5		50.0		127	50-200			

Matrix Spike (2428028-MS1)

Source: E407038-04

Prepared: 07/09/24 Analyzed: 07/10/24

Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132			
Surrogate: n-Nonane	55.1		50.0		110	50-200			

Matrix Spike Dup (2428028-MSD1)

Source: E407038-04

Prepared: 07/09/24 Analyzed: 07/10/24

Diesel Range Organics (C10-C28)	296	25.0	250	ND	119	38-132	0.669	20	
Surrogate: n-Nonane	58.3		50.0		117	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/10/2024 2:23:32PM
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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
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Blank (2428037-BLK1)

Prepared: 07/09/24 Analyzed: 07/09/24

Chloride	ND	20.0							
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LCS (2428037-BS1)

Prepared: 07/09/24 Analyzed: 07/09/24

Chloride	247	20.0	250		98.9	90-110			
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Matrix Spike (2428037-MS1)

Source: E407038-04

Prepared: 07/09/24 Analyzed: 07/09/24

Chloride	373	20.0	250	120	101	80-120			
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Matrix Spike Dup (2428037-MSD1)

Source: E407038-04

Prepared: 07/09/24 Analyzed: 07/09/24

Chloride	377	20.0	250	120	103	80-120	0.933	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill H	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/10/24 14:23

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.



Client: <u>MAC Energy</u>		Bill To		Lab Use Only		TAT			EPA Program					
Project: <u>West Mount Spill H</u>		Attention: <u>ENERGY STAFFING SERVICES</u>		Lab WO# <u>E 407038</u>		Job Number <u>20046-0001</u>			1D	2D	3D	Standard	CWA	SDWA
Project Manager:		Address: <u>2724 NW COUNTY RD</u>		City, State, Zip <u>HOBBS, NM 88240</u>		Analysis and Method								RCRA
Address:		Phone: <u>575-393-9048</u>		Email: <u>NATALIE@ENERGYSTAFFINGLLC.COM</u>					State					
City, State, Zip		Email: <u>BRITTNEY@ENERGYSTAFFINGLLC.COM</u>							NM	CO	UT	AZ	TX	
Phone:									X					
Email:									Remarks					
Report due by:														

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
	07/03	S	1	SP 8 - 10'	1							X		
				SP 9 - 10'	2									
				SP 10 - 12'	3									
				SP 11 - 14'	4									
	07/03	S	1	SP 12 - 14'	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.
 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) <u>Jun Solis</u>	Date <u>07/03/24</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>7-8-24</u>	Time <u>1330</u>	Lab Use Only Received on ice: <u>(Y) N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>7-8-24</u>	Time <u>1755</u>	Received by: (Signature) <u>Chell</u>	Date <u>7-8-24</u>	Time <u>1755</u>	
Relinquished by: (Signature) <u>J. H.</u>	Date <u>7-8-24</u>	Time <u>2400</u>	Received by: (Signature) <u>St</u>	Date <u>7-9-24</u>	Time <u>1120</u>	

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 Analytical Laboratory

Printed: 7/9/2024 3:01:30PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 07/09/24 11:20	Work Order ID: E407038
Phone: (575) 390-6397	Date Logged In: 07/08/24 16:38	Logged In By: Alexa Michaels
Email: Natalie@energystaffingllc.com	Due Date: 07/10/24 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? Yes

Carrier: Couier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
- 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 filtration 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

Comments/Resolution

Time sampled and project manager is not documented on the COC by client

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill H

Work Order: E407050

Job Number: 20046-0001

Received: 7/10/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/11/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 7/11/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill H
Workorder: E407050
Date Received: 7/10/2024 8:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/10/2024 8:30:00AM, under the Project Name: West Mount Spill H.

The analytical test results summarized in this report with the Project Name: West Mount Spill H 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 regarding 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 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/11/24 14:17
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sw 1-3'	E407050-01A	Soil	07/08/24	07/10/24	Glass Jar, 2 oz.
Sw 2-5'	E407050-02A	Soil	07/08/24	07/10/24	Glass Jar, 2 oz.
Sw 3-4'	E407050-03A	Soil	07/08/24	07/10/24	Glass Jar, 2 oz.
Sw 4-5'	E407050-04A	Soil	07/08/24	07/10/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/11/2024 2:17:56PM
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Sw 1-3'

E407050-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428042
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.7 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428042
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		110 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2428047
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
<i>Surrogate: n-Nonane</i>						
		127 %	50-200	07/10/24	07/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2428052
Chloride	37.7	20.0	1	07/10/24	07/10/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/11/2024 2:17:56PM
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Sw 2-5'

E407050-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2428042
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.0 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2428042
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		108 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2428047
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
<i>Surrogate: n-Nonane</i>		129 %	50-200	07/10/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2428052
Chloride	92.1	20.0	1	07/10/24	07/10/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/11/2024 2:17:56PM
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Sw 3-4'

E407050-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2428042
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.8 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2428042
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2428047
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
<i>Surrogate: n-Nonane</i>		114 %	50-200	07/10/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2428052
Chloride	60.9	20.0	1	07/10/24	07/10/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/11/2024 2:17:56PM
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Sw 4-5'

E407050-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2428042
Benzene	ND	0.0250	1	07/10/24	07/10/24	
Ethylbenzene	ND	0.0250	1	07/10/24	07/10/24	
Toluene	ND	0.0250	1	07/10/24	07/10/24	
o-Xylene	ND	0.0250	1	07/10/24	07/10/24	
p,m-Xylene	ND	0.0500	1	07/10/24	07/10/24	
Total Xylenes	ND	0.0250	1	07/10/24	07/10/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.2 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2428042
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/10/24	07/10/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	07/10/24	07/10/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2428047
Diesel Range Organics (C10-C28)	ND	25.0	1	07/10/24	07/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/10/24	07/10/24	
<i>Surrogate: n-Nonane</i>		119 %	50-200	07/10/24	07/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2428052
Chloride	62.1	20.0	1	07/10/24	07/10/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/11/2024 2:17:56PM
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Volatile Organics by EPA 8021B

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
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Blank (2428042-BLK1)

Prepared: 07/10/24 Analyzed: 07/10/24

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	7.04		8.00		88.0	70-130			

LCS (2428042-BS1)

Prepared: 07/10/24 Analyzed: 07/10/24

Benzene	5.03	0.0250	5.00		101	70-130			
Ethylbenzene	4.70	0.0250	5.00		94.1	70-130			
Toluene	4.94	0.0250	5.00		98.8	70-130			
o-Xylene	4.78	0.0250	5.00		95.7	70-130			
p,m-Xylene	9.66	0.0500	10.0		96.6	70-130			
Total Xylenes	14.4	0.0250	15.0		96.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.12		8.00		89.0	70-130			

Matrix Spike (2428042-MS1)

Source: E407049-08

Prepared: 07/10/24 Analyzed: 07/10/24

Benzene	6.19	0.0250	5.00	1.39	96.1	54-133			
Ethylbenzene	5.37	0.0250	5.00	0.772	91.9	61-133			
Toluene	9.56	0.0250	5.00	5.79	75.4	61-130			
o-Xylene	6.46	0.0250	5.00	1.97	89.9	63-131			
p,m-Xylene	13.4	0.0500	10.0	4.67	87.8	63-131			
Total Xylenes	19.9	0.0250	15.0	6.63	88.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.21		8.00		90.2	70-130			

Matrix Spike Dup (2428042-MSD1)

Source: E407049-08

Prepared: 07/10/24 Analyzed: 07/10/24

Benzene	6.15	0.0250	5.00	1.39	95.3	54-133	0.647	20	
Ethylbenzene	5.31	0.0250	5.00	0.772	90.7	61-133	1.16	20	
Toluene	9.66	0.0250	5.00	5.79	77.5	61-130	1.10	20	
o-Xylene	6.45	0.0250	5.00	1.97	89.7	63-131	0.183	20	
p,m-Xylene	13.4	0.0500	10.0	4.67	87.6	63-131	0.158	20	
Total Xylenes	19.9	0.0250	15.0	6.63	88.3	63-131	0.166	20	
Surrogate: 4-Bromochlorobenzene-PID	7.18		8.00		89.8	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/11/2024 2:17:56PM
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Nonhalogenated Organics by EPA 8015D - GRO

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
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Blank (2428042-BLK1)

Prepared: 07/10/24 Analyzed: 07/10/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.75		8.00		109	70-130			

LCS (2428042-BS2)

Prepared: 07/10/24 Analyzed: 07/10/24

Gasoline Range Organics (C6-C10)	54.9	20.0	50.0		110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.90		8.00		111	70-130			

Matrix Spike (2428042-MS2)

Source: E407049-08

Prepared: 07/10/24 Analyzed: 07/10/24

Gasoline Range Organics (C6-C10)	81.7	20.0	50.0	35.4	92.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.87		8.00		111	70-130			

Matrix Spike Dup (2428042-MSD2)

Source: E407049-08

Prepared: 07/10/24 Analyzed: 07/10/24

Gasoline Range Organics (C6-C10)	84.3	20.0	50.0	35.4	97.9	70-130	3.16	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.92		8.00		111	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/11/2024 2:17:56PM
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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
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Blank (2428047-BLK1)

Prepared: 07/10/24 Analyzed: 07/10/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	61.0		50.0		122	50-200			

LCS (2428047-BS1)

Prepared: 07/10/24 Analyzed: 07/10/24

Diesel Range Organics (C10-C28)	320	25.0	250		128	38-132			
Surrogate: n-Nonane	62.8		50.0		126	50-200			

Matrix Spike (2428047-MS1)

Source: E407049-05

Prepared: 07/10/24 Analyzed: 07/10/24

Diesel Range Organics (C10-C28)	494	25.0	250	139	142	38-132			M2
Surrogate: n-Nonane	64.0		50.0		128	50-200			

Matrix Spike Dup (2428047-MSD1)

Source: E407049-05

Prepared: 07/10/24 Analyzed: 07/10/24

Diesel Range Organics (C10-C28)	501	25.0	250	139	145	38-132	1.41	20	M2
Surrogate: n-Nonane	64.1		50.0		128	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/11/2024 2:17:56PM
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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
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Blank (2428052-BLK1)

Prepared: 07/10/24 Analyzed: 07/10/24

Chloride	ND	20.0							
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LCS (2428052-BS1)

Prepared: 07/10/24 Analyzed: 07/10/24

Chloride	250	20.0	250		100	90-110			
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Matrix Spike (2428052-MS1)

Source: E407049-01

Prepared: 07/10/24 Analyzed: 07/10/24

Chloride	281	200	250	ND	112	80-120			
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Matrix Spike Dup (2428052-MSD1)

Source: E407049-01

Prepared: 07/10/24 Analyzed: 07/10/24

Chloride	275	200	250	ND	110	80-120	2.01	20	
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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 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/11/24 14:17
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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.



Client: <u>Macl Energy</u> Project: <u>West mount Spill H</u> Project Manager: Address: City, State, Zip Phone: Email: Report due by:	Bill To		Lab Use Only		TAT			EPA Program																					
	Attention: ENERGY STAFFING SERVICES		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA																			
	Address: 2724 NW COUNTY RD		<u>E407050</u>	<u>20046-0001</u>		<input checked="" type="checkbox"/>																							
	City, State, Zip HOBBS, NM 88240		Analysis and Method																										
	Phone: 575-393-9048		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX																			
Email: NATALIE@ENERGYSTAFFINGLLC.COM		State																											
BRITTNEY@ENERGYSTAFFINGLLC.COM		<table border="1"> <tr> <td>NM</td> <td>CO</td> <td>UT</td> <td>AZ</td> <td>TX</td> <td colspan="5"></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td></td> <td></td> <td colspan="5"></td> </tr> </table>								NM	CO	UT	AZ	TX						<input checked="" type="checkbox"/>									
NM	CO	UT	AZ	TX																									
<input checked="" type="checkbox"/>																													
RCRA		Remarks																											

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
	07/08	S	1	SW 1 - 3'	1							<input checked="" type="checkbox"/>		
		S		SW 2 - 5'	2									
		S		SW 3 - 4'	3									
	07/08	S	1	SW 4 - 5'	4							<input checked="" type="checkbox"/>		

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. 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) <u>Juan Solis</u>		Date	Time	Received by: (Signature) <u>Michelle Gonzales</u>		Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>	
Relinquished by: (Signature) <u>Michelle Gonzales</u>		Date	Time	Received by: (Signature) <u>J. M.</u>		Date	Time		
Relinquished by: (Signature) <u>J. M.</u>		Date	Time	Received by: (Signature) <u>Sto</u>		Date	Time		

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 Analytical Laboratory

Printed: 7/10/2024 2:28:03PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy Date Received: 07/10/24 08:30 Work Order ID: E407050
Phone: (575) 390-6397 Date Logged In: 07/09/24 17:22 Logged In By: Alexa Michaels
Email: Natalie@energystaffingllc.com Due Date: 07/11/24 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Carrier: Couier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Comments/Resolution

Project manager and time sampled are not listed 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
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 filtration 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

[Empty box for client instruction]

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill H

Work Order: E407061

Job Number: 20046-0001

Received: 7/11/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/12/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 7/12/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill H
Workorder: E407061
Date Received: 7/11/2024 10:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/11/2024 10:30:00AM, under the Project Name: West Mount Spill H.

The analytical test results summarized in this report with the Project Name: West Mount Spill H 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 regarding 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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/12/24 14:37
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sw 5-8'	E407061-01A	Soil	07/09/24	07/11/24	Glass Jar, 2 oz.
Sw 6-6'	E407061-02A	Soil	07/09/24	07/11/24	Glass Jar, 2 oz.
Sw 7-3'	E407061-03A	Soil	07/09/24	07/11/24	Glass Jar, 2 oz.
Sw 8-3'	E407061-04A	Soil	07/09/24	07/11/24	Glass Jar, 2 oz.
Sw 9-3'	E407061-05A	Soil	07/09/24	07/11/24	Glass Jar, 2 oz.
Sw 10-4'	E407061-06A	Soil	07/09/24	07/11/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/12/2024 2:37:51PM
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Sw 5-8'

E407061-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2428073
Benzene	ND	0.0250	1	07/11/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/11/24	07/11/24	
Toluene	ND	0.0250	1	07/11/24	07/11/24	
o-Xylene	ND	0.0250	1	07/11/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/11/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/11/24	07/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.6 %	70-130		07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2428073
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/24	07/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.7 %	70-130		07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2428077
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/24	07/11/24	
<i>Surrogate: n-Nonane</i>						
	136 %	50-200		07/11/24	07/11/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2428078
Chloride	61.9	20.0	1	07/11/24	07/11/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/12/2024 2:37:51PM
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Sw 6-6'

E407061-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2428073
Benzene	ND	0.0250	1	07/11/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/11/24	07/11/24	
Toluene	ND	0.0250	1	07/11/24	07/11/24	
o-Xylene	ND	0.0250	1	07/11/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/11/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/11/24	07/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.1 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2428073
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/24	07/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.8 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2428077
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/24	07/11/24	
<i>Surrogate: n-Nonane</i>		130 %	50-200	07/11/24	07/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2428078
Chloride	62.7	20.0	1	07/11/24	07/11/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/12/2024 2:37:51PM
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Sw 7-3'

E407061-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2428073
Benzene	ND	0.0250	1	07/11/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/11/24	07/11/24	
Toluene	ND	0.0250	1	07/11/24	07/11/24	
o-Xylene	ND	0.0250	1	07/11/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/11/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/11/24	07/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.7 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2428073
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/24	07/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.7 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2428077
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/24	07/11/24	
<i>Surrogate: n-Nonane</i>		128 %	50-200	07/11/24	07/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2428078
Chloride	21.9	20.0	1	07/11/24	07/11/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/12/2024 2:37:51PM
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Sw 8-3'

E407061-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2428073
Benzene	ND	0.0250	1	07/11/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/11/24	07/11/24	
Toluene	ND	0.0250	1	07/11/24	07/11/24	
o-Xylene	ND	0.0250	1	07/11/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/11/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/11/24	07/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.2 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2428073
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/24	07/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.4 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2428077
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/24	07/11/24	
<i>Surrogate: n-Nonane</i>		122 %	50-200	07/11/24	07/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2428078
Chloride	46.4	20.0	1	07/11/24	07/11/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/12/2024 2:37:51PM
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Sw 9-3'

E407061-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2428073
Benzene	ND	0.0250	1	07/11/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/11/24	07/11/24	
Toluene	ND	0.0250	1	07/11/24	07/11/24	
o-Xylene	ND	0.0250	1	07/11/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/11/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/11/24	07/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.0 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2428073
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/24	07/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.3 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2428077
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/24	07/11/24	
<i>Surrogate: n-Nonane</i>		123 %	50-200	07/11/24	07/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2428078
Chloride	47.2	20.0	1	07/11/24	07/11/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/12/2024 2:37:51PM
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Sw 10-4'
E407061-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: IY		Batch: 2428073
Benzene	ND	0.0250	1	07/11/24	07/11/24	
Ethylbenzene	ND	0.0250	1	07/11/24	07/11/24	
Toluene	ND	0.0250	1	07/11/24	07/11/24	
o-Xylene	ND	0.0250	1	07/11/24	07/11/24	
p,m-Xylene	ND	0.0500	1	07/11/24	07/11/24	
Total Xylenes	ND	0.0250	1	07/11/24	07/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.4 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: IY		Batch: 2428073
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/11/24	07/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.7 %	70-130	07/11/24	07/11/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2428077
Diesel Range Organics (C10-C28)	ND	25.0	1	07/11/24	07/11/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/11/24	07/11/24	
<i>Surrogate: n-Nonane</i>		139 %	50-200	07/11/24	07/11/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2428078
Chloride	61.5	20.0	1	07/11/24	07/11/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/12/2024 2:37:51PM
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Volatile Organics by EPA 8021B

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
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Blank (2428073-BLK1)

Prepared: 07/11/24 Analyzed: 07/11/24

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	6.97		8.00		87.1	70-130			

LCS (2428073-BS1)

Prepared: 07/11/24 Analyzed: 07/11/24

Benzene	4.86	0.0250	5.00		97.1	70-130			
Ethylbenzene	4.69	0.0250	5.00		93.8	70-130			
Toluene	4.79	0.0250	5.00		95.9	70-130			
o-Xylene	4.65	0.0250	5.00		93.0	70-130			
p,m-Xylene	9.53	0.0500	10.0		95.3	70-130			
Total Xylenes	14.2	0.0250	15.0		94.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.20		8.00		90.0	70-130			

Matrix Spike (2428073-MS1)

Source: E407062-05

Prepared: 07/11/24 Analyzed: 07/11/24

Benzene	5.11	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.93	0.0250	5.00	ND	98.7	61-133			
Toluene	5.04	0.0250	5.00	ND	101	61-130			
o-Xylene	4.91	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	7.18		8.00		89.8	70-130			

Matrix Spike Dup (2428073-MSD1)

Source: E407062-05

Prepared: 07/11/24 Analyzed: 07/11/24

Benzene	4.72	0.0250	5.00	ND	94.3	54-133	8.04	20	
Ethylbenzene	4.57	0.0250	5.00	ND	91.3	61-133	7.76	20	
Toluene	4.66	0.0250	5.00	ND	93.2	61-130	7.90	20	
o-Xylene	4.54	0.0250	5.00	ND	90.8	63-131	7.87	20	
p,m-Xylene	9.30	0.0500	10.0	ND	93.0	63-131	7.53	20	
Total Xylenes	13.8	0.0250	15.0	ND	92.3	63-131	7.64	20	
Surrogate: 4-Bromochlorobenzene-PID	7.18		8.00		89.8	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/12/2024 2:37:51PM
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Nonhalogenated Organics by EPA 8015D - GRO

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
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Blank (2428073-BLK1)

Prepared: 07/11/24 Analyzed: 07/11/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.83		8.00		97.9	70-130			

LCS (2428073-BS2)

Prepared: 07/11/24 Analyzed: 07/11/24

Gasoline Range Organics (C6-C10)	51.7	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.7	70-130			

Matrix Spike (2428073-MS2)

Source: E407062-05

Prepared: 07/11/24 Analyzed: 07/11/24

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			

Matrix Spike Dup (2428073-MSD2)

Source: E407062-05

Prepared: 07/11/24 Analyzed: 07/11/24

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0	ND	99.7	70-130	0.404	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		8.00		99.0	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/12/2024 2:37:51PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2428077-BLK1)

Prepared: 07/11/24 Analyzed: 07/11/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	64.5		50.0		129	50-200			

LCS (2428077-BS1)

Prepared: 07/11/24 Analyzed: 07/11/24

Diesel Range Organics (C10-C28)	302	25.0	250		121	38-132			
Surrogate: n-Nonane	61.3		50.0		123	50-200			

Matrix Spike (2428077-MS1)

Source: E407062-04

Prepared: 07/11/24 Analyzed: 07/11/24

Diesel Range Organics (C10-C28)	306	25.0	250	ND	123	38-132			
Surrogate: n-Nonane	63.6		50.0		127	50-200			

Matrix Spike Dup (2428077-MSD1)

Source: E407062-04

Prepared: 07/11/24 Analyzed: 07/11/24

Diesel Range Organics (C10-C28)	315	25.0	250	ND	126	38-132	2.84	20	
Surrogate: n-Nonane	63.3		50.0		127	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/12/2024 2:37:51PM
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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
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Blank (2428078-BLK1)

Prepared: 07/11/24 Analyzed: 07/11/24

Chloride ND 20.0

LCS (2428078-BS1)

Prepared: 07/11/24 Analyzed: 07/11/24

Chloride 254 20.0 250 102 90-110

Matrix Spike (2428078-MS1)

Source: E407061-01

Prepared: 07/11/24 Analyzed: 07/11/24

Chloride 320 20.0 250 61.9 103 80-120

Matrix Spike Dup (2428078-MSD1)

Source: E407061-01

Prepared: 07/11/24 Analyzed: 07/11/24

Chloride 319 20.0 250 61.9 103 80-120 0.264 20

QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill H	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/12/24 14:37

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.



Client: Mack Energy	Bill To	Lab Use Only		TAT			EPA Program						
Project: West mount Spill H	Attention: ENERGY STAFFING SERVICES	Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA				
Project Manager:	Address: 2724 NW COUNTY RD	E407061	20046-0001		<input checked="" type="checkbox"/>								
Address:	City, State, Zip HOBBS, NM 88240	Analysis and Method							RCRA				
City, State, Zip	Phone: 575-393-9048	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX				
Phone:	Email: NATALIE@ENERGYSTAFFINGLLC.COM								State				
Email:	BRITTNEY@ENERGYSTAFFINGLLC.COM								NM	CO	UT	AZ	TX
Report due by:									Remarks				

Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	07/09	S	1	Sw 5 - 8'	1							<input checked="" type="checkbox"/>		
	}	}	}	Sw 6 - 6'	2							}		
				Sw 7 - 3'	3									
				Sw 8 - 3'	4									
				Sw 9 - 3'	5									
	07/09	S	1	Sw 10 - 4'	6							<input checked="" type="checkbox"/>		

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) Juan Solis	Date 07/09/24	Time	Received by: (Signature) Michelle Gonzales	Date 7-10-24	Time 1405	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature) Michelle Gonzales	Date 7-10-24	Time 1630	Received by: (Signature) J.M.	Date 7-10-24	Time 1805	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature) J.M.	Date 7-10-24	Time 2400	Received by: (Signature) Alexa Michaels	Date 7/11/24	Time 1030	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 Analytical Laboratory

Printed: 7/11/2024 3:03:28PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 07/11/24 10:30	Work Order ID: E407061
Phone: (575) 390-6397	Date Logged In: 07/10/24 15:43	Logged In By: Alexa Michaels
Email: Natalie@energystaffingllc.com	Due Date: 07/12/24 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
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
- 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 filtration 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 listed 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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount H

Work Order: E407083

Job Number: 20046-0001

Received: 7/12/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/15/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/15/24



Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount H
Workorder: E407083
Date Received: 7/12/2024 9:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/12/2024 9:00:00AM, under the Project Name: West Mount H.

The analytical test results summarized in this report with the Project Name: West Mount H 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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/15/24 15:25
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP 4 - 24'	E407083-01A	Soil	07/10/24	07/12/24	Glass Jar, 4 oz.
SP 7 - 24'	E407083-02A	Soil	07/10/24	07/12/24	Glass Jar, 4 oz.
SP 13 - 24'	E407083-03A	Soil	07/10/24	07/12/24	Glass Jar, 4 oz.
SP 14 - 24'	E407083-04A	Soil	07/10/24	07/12/24	Glass Jar, 4 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/15/2024 3:25:33PM
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SP 4 - 24'

E407083-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2428088
Benzene	ND	0.0250	1	07/12/24	07/15/24	
Ethylbenzene	ND	0.0250	1	07/12/24	07/15/24	
Toluene	ND	0.0250	1	07/12/24	07/15/24	
o-Xylene	ND	0.0250	1	07/12/24	07/15/24	
p,m-Xylene	ND	0.0500	1	07/12/24	07/15/24	
Total Xylenes	ND	0.0250	1	07/12/24	07/15/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.0 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2428088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/12/24	07/15/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2428093
Diesel Range Organics (C10-C28)	ND	25.0	1	07/12/24	07/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/12/24	07/13/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	07/12/24	07/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2428092
Chloride	60.5	20.0	1	07/12/24	07/12/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/15/2024 3:25:33PM
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SP 7 - 24'

E407083-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2428088
Benzene	ND	0.0250	1	07/12/24	07/15/24	
Ethylbenzene	ND	0.0250	1	07/12/24	07/15/24	
Toluene	ND	0.0250	1	07/12/24	07/15/24	
o-Xylene	ND	0.0250	1	07/12/24	07/15/24	
p,m-Xylene	ND	0.0500	1	07/12/24	07/15/24	
Total Xylenes	ND	0.0250	1	07/12/24	07/15/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.4 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2428088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/12/24	07/15/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2428093
Diesel Range Organics (C10-C28)	ND	25.0	1	07/12/24	07/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/12/24	07/13/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	07/12/24	07/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2428092
Chloride	60.6	20.0	1	07/12/24	07/12/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/15/2024 3:25:33PM
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SP 13 - 24'

E407083-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2428088
Benzene	ND	0.0250	1	07/12/24	07/15/24	
Ethylbenzene	ND	0.0250	1	07/12/24	07/15/24	
Toluene	ND	0.0250	1	07/12/24	07/15/24	
o-Xylene	ND	0.0250	1	07/12/24	07/15/24	
p,m-Xylene	ND	0.0500	1	07/12/24	07/15/24	
Total Xylenes	ND	0.0250	1	07/12/24	07/15/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.1 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2428088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/12/24	07/15/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		108 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2428093
Diesel Range Organics (C10-C28)	ND	25.0	1	07/12/24	07/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/12/24	07/13/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	07/12/24	07/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2428092
Chloride	59.6	20.0	1	07/12/24	07/12/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/15/2024 3:25:33PM
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SP 14 - 24'

E407083-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428088
Benzene	ND	0.0250	1	07/12/24	07/15/24	
Ethylbenzene	ND	0.0250	1	07/12/24	07/15/24	
Toluene	ND	0.0250	1	07/12/24	07/15/24	
o-Xylene	ND	0.0250	1	07/12/24	07/15/24	
p,m-Xylene	ND	0.0500	1	07/12/24	07/15/24	
Total Xylenes	ND	0.0250	1	07/12/24	07/15/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.3 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2428088
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/12/24	07/15/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		106 %	70-130	07/12/24	07/15/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2428093
Diesel Range Organics (C10-C28)	ND	25.0	1	07/12/24	07/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/12/24	07/13/24	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	07/12/24	07/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2428092
Chloride	60.5	20.0	1	07/12/24	07/12/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/15/2024 3:25:33PM
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Volatile Organics by EPA 8021B

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
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Blank (2428088-BLK1)

Prepared: 07/12/24 Analyzed: 07/15/24

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: 4-Bromochlorobenzene-PID	7.35		8.00		91.8	70-130			

LCS (2428088-BS1)

Prepared: 07/12/24 Analyzed: 07/15/24

Benzene	4.55	0.0250	5.00		91.0	70-130			
Ethylbenzene	4.39	0.0250	5.00		87.8	70-130			
Toluene	4.49	0.0250	5.00		89.9	70-130			
o-Xylene	4.37	0.0250	5.00		87.4	70-130			
p,m-Xylene	8.92	0.0500	10.0		89.2	70-130			
Total Xylenes	13.3	0.0250	15.0		88.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.31		8.00		91.4	70-130			

LCS Dup (2428088-BSD1)

Prepared: 07/12/24 Analyzed: 07/15/24

Benzene	4.70	0.0250	5.00		94.0	70-130	3.24	20	
Ethylbenzene	4.54	0.0250	5.00		90.7	70-130	3.29	20	
Toluene	4.64	0.0250	5.00		92.7	70-130	3.10	20	
o-Xylene	4.51	0.0250	5.00		90.2	70-130	3.25	20	
p,m-Xylene	9.20	0.0500	10.0		92.0	70-130	3.10	20	
Total Xylenes	13.7	0.0250	15.0		91.4	70-130	3.15	20	
Surrogate: 4-Bromochlorobenzene-PID	7.34		8.00		91.7	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/15/2024 3:25:33PM
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Nonhalogenated Organics by EPA 8015D - GRO

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
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Blank (2428088-BLK1)

Prepared: 07/12/24 Analyzed: 07/15/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		96.9	70-130			

LCS (2428088-BS2)

Prepared: 07/12/24 Analyzed: 07/15/24

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.3	70-130			

LCS Dup (2428088-BSD2)

Prepared: 07/12/24 Analyzed: 07/15/24

Gasoline Range Organics (C6-C10)	50.4	20.0	50.0		101	70-130	3.24	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/15/2024 3:25:33PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2428093-BLK1)

Prepared: 07/12/24 Analyzed: 07/12/24

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 (2428093-BS1)

Prepared: 07/12/24 Analyzed: 07/12/24

Diesel Range Organics (C10-C28)	318	25.0	250		127	38-132			
Surrogate: n-Nonane	65.4		50.0		131	50-200			

Matrix Spike (2428093-MS1)

Source: E407078-02

Prepared: 07/12/24 Analyzed: 07/12/24

Diesel Range Organics (C10-C28)	318	25.0	250	ND	127	38-132			
Surrogate: n-Nonane	64.3		50.0		129	50-200			

Matrix Spike Dup (2428093-MSD1)

Source: E407078-02

Prepared: 07/12/24 Analyzed: 07/12/24

Diesel Range Organics (C10-C28)	321	25.0	250	ND	128	38-132	0.900	20	
Surrogate: n-Nonane	65.8		50.0		132	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/15/2024 3:25:33PM
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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
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Blank (2428092-BLK1)

Prepared: 07/12/24 Analyzed: 07/12/24

Chloride	ND	20.0							
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LCS (2428092-BS1)

Prepared: 07/12/24 Analyzed: 07/12/24

Chloride	254	20.0	250		101	90-110			
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Matrix Spike (2428092-MS1)

Source: E407077-02

Prepared: 07/12/24 Analyzed: 07/12/24

Chloride	362	20.0	250	105	103	80-120			
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Matrix Spike Dup (2428092-MSD1)

Source: E407077-02

Prepared: 07/12/24 Analyzed: 07/12/24

Chloride	353	20.0	250	105	99.3	80-120	2.34	20	
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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 H	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/15/24 15:25

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.



Client: <u>MACK ENERGY</u> Project: <u>WBS7 MOUNT H</u> Project Manager: Address: City, State, Zip: Phone: Email: Report due by:	Bill To Attention: <u>ENERGY STAFFING SERVICES</u> Address: <u>2724 NW COUNTY RD</u> City, State, Zip: <u>HOBBS, NM 88240</u> Phone: <u>575-393-9048</u> Email: <u>NATALIE@ENERGYSTAFFINGLLC.COM</u> <u>BRITTNEY@ENERGYSTAFFINGLLC.COM</u>	Lab Use Only Lab WO# <u>E407083</u> Job Number <u>20046-0001</u>	TAT 1D <input type="checkbox"/> 2D <input checked="" type="checkbox"/> 3D <input type="checkbox"/> Standard	EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/> State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>
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Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	7/10/24	S	1	SP 4-24-	1							X		
				SP 7-24-	2									
				SP 13-24-	3									
	7/10/24	S	1	SP 14-24-	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.
 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) <u>MG</u>	Date <u>7/10/24</u>	Time	Received by: (Signature) <u>M. RIVERA</u>	Date <u>7-11-24</u>	Time <u>1350</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>7-11-24</u>	Time <u>1640</u>	Received by: (Signature) <u>Chad</u>	Date <u>7-11-24</u>	Time <u>1700</u>	
Relinquished by: (Signature) <u>Andrew</u>	Date <u>7-11-24</u>	Time <u>2330</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>7-12-24</u>	Time <u>0900</u>	

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 Analytical Laboratory

Printed: 7/15/2024 3:21:54PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 07/12/24 09:00	Work Order ID: E407083
Phone: (575) 390-6397	Date Logged In: 07/12/24 00:00	Logged In By: Noe Soto
Email: Natalie@energystaffingllc.com	Due Date: 07/15/24 17:00 (1 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
- 4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
- 5. Were all samples received within holding time? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
- 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 filtration 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

Comments/Resolution

We recieved 2 containers with the same name SP4-24. Client B. Carroll identified which sample was SP7-24 through pictures. All samples are accounted for. Project manager and time sampled are not listed on the COC by client.

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

Date



envirotech Inc.

WEST MOUNT SPILL H
DELINEATION SAMPLE PHOTOS



Jul 3, 2024 8:23:17 AM
32.98941068N 104.06988512W
Chaves County
Mack Energy
West mount. (H)
sample points



Jul 3, 2024 8:32:39 AM
32.98945726N 104.06996435W
Chaves County
Mack Energy
West mount (H)
sample points











Jul 3, 2024 7:49:02 AM
32.98932424N 104.0699659W
Chaves County
Mack Energy
West mount (H)
sample points

Natalie Gladden

From: OCDOnline@state.nm.us
Sent: Monday, September 16, 2024 9:39 AM
To: Natalie Gladden
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 383770

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#) nAPP2329737108.

The sampling event is expected to take place:

When: 09/23/2024 @ 07:00

Where: F-30-15S-29E 0 FNL 0 FEL (32.98947,-104.069673)

Additional Information: NATALIE GLADDEN 5753906397

Additional Instructions: 32.98947 -104.069673
WEST MOUNT SPILL H

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

Natalie Gladden

From: OCDOnline@state.nm.us
Sent: Monday, September 16, 2024 9:39 AM
To: Natalie Gladden
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 383770

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#) nAPP2329737108.

The sampling event is expected to take place:

When: 09/23/2024 @ 07:00

Where: F-30-15S-29E 0 FNL 0 FEL (32.98947,-104.069673)

Additional Information: NATALIE GLADDEN 5753906397

Additional Instructions: 32.98947 -104.069673
WEST MOUNT SPILL H

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

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

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

Company Name: MACK ENERGY

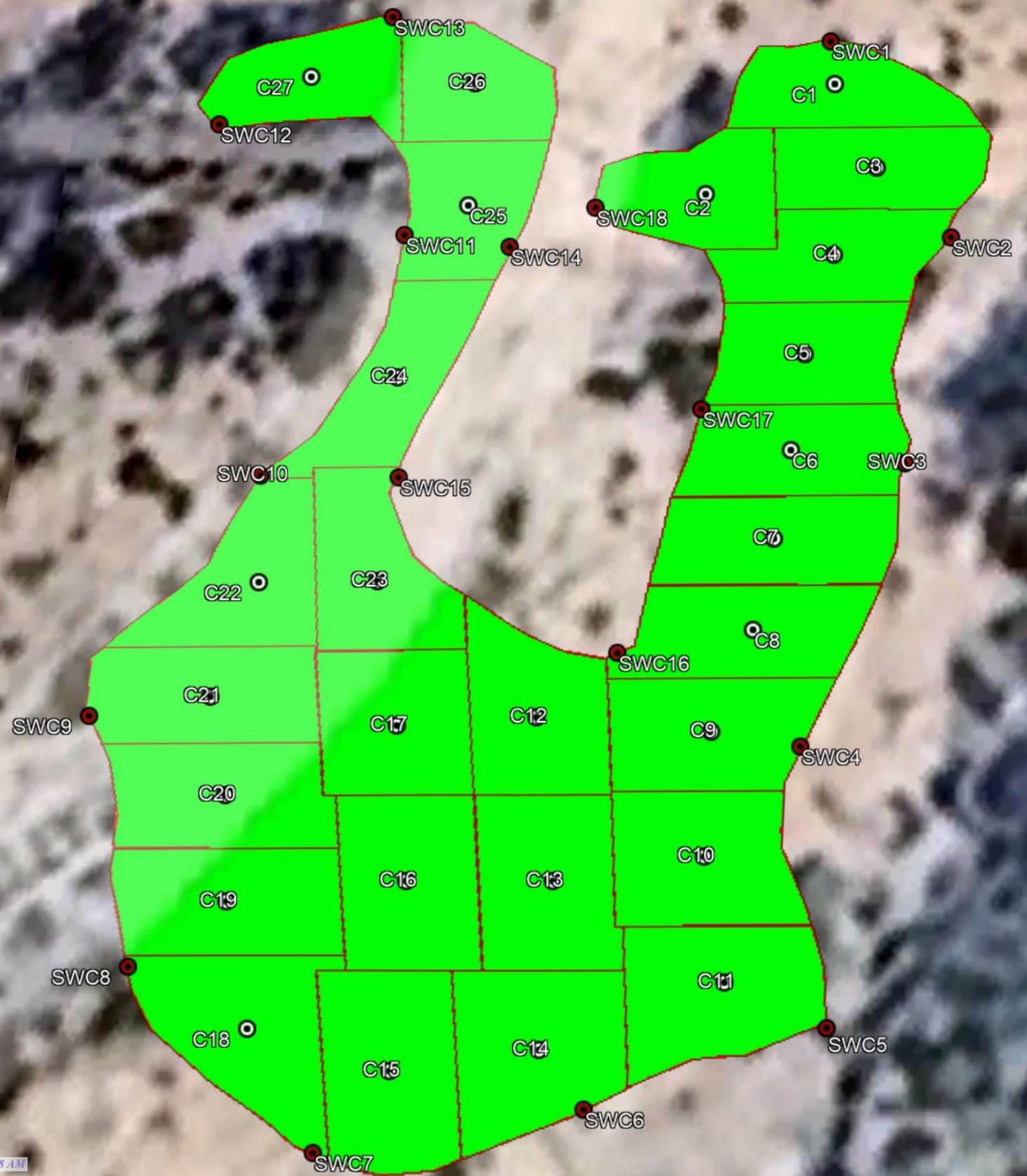
Location Name: WEST MOUNT SPILL H

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Dates
COMP1	8	240	L	ND	ND	ND	ND	ND	76.5	9/20/2024
COMP2	4	240	L	ND	ND	ND	ND	ND	81.5	9/20/2024
COMP3	2	240	L	ND	ND	ND	ND	ND	97.2	9/20/2024
COMP4	2	240	L	ND	ND	ND	ND	ND	94.9	9/20/2024
COMP5	6	240	L	ND	ND	ND	ND	ND	90	9/20/2024
COMP6	6	240	L	ND	ND	ND	ND	ND	97.9	9/20/2024
COMP7	6	240	L	ND	ND	ND	ND	ND	89	9/20/2024
COMP8	6	240	L	ND	ND	ND	ND	ND	98	9/20/2024
COMP9	8	240	L	ND	ND	ND	ND	ND	ND	9/20/2024
COMP10	12	240	L	ND	ND	ND	ND	ND	ND	9/20/2024
COMP11	8	240	L	ND	ND	ND	ND	ND	ND	9/20/2024
COMP12	10	240	L	ND	ND	ND	ND	ND	26.1	9/20/2024
COMP13	12	240	L	ND	ND	ND	ND	ND	ND	9/20/2024
COMP14	8	240	L	ND	ND	ND	ND	ND	ND	9/20/2024
COMP15	10	240	L	ND	ND	ND	ND	ND	22.5	9/20/2024
COMP16	18	240	L	ND	ND	ND	ND	ND	ND	9/20/2024

COMP17	12	240	L	ND	ND	ND	ND	ND	ND	9/20/2024
COMP18	10	240	L	ND	ND	ND	ND	ND	28.2	9/20/2024
COMP19	20	240	L	ND	ND	ND	ND	ND	ND	9/20/2024
COMP20	12	240	L	ND	ND	ND	ND	ND	ND	9/20/2024
COMP21	10	240	L	ND	ND	ND	ND	ND	30.3	9/23/2024
COMP22	20	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
COMP23	12	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
COMP24	12	240	L	ND	ND	ND	ND	ND	33.4	9/23/2024
COMP25	20	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
COMP26	12	240	L	ND	ND	ND	ND	ND	28.4	9/23/2024
COMP27	12	240	L	ND	ND	ND	ND	ND	28.6	9/23/2024
SWCOMP1	8	240	L	ND	ND	ND	ND	ND	55.1	9/23/2024
SWCOMP2	6	240	L	ND	ND	ND	ND	ND	55.8	9/23/2024
SWCOMP3	2	240	L	ND	ND	ND	ND	ND	52.3	9/23/2024
SWCOMP4	12	240	L	ND	ND	ND	ND	ND	53.8	9/23/2024
SWCOMP5	12	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
SWCOMP6	20	240	L	ND	ND	ND	ND	ND	ND	9/23/2024

SWCOMP7	20	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
SWCOMP8	20	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
SWCOMP9	20	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
SWCOMP10	20	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
SWCOMP11	12	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
SWCOMP12	12	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
SWCOMP13	12	240	L	ND	ND	ND	ND	ND	ND	9/23/2024
SWCOMP14	10	240	L	ND	ND	ND	ND	ND	24.2	9/24/2024
SWCOMP15	10	240	L	ND	ND	ND	ND	ND	24.1	9/24/2024
SWCOMP16	8	240	L	ND	ND	ND	ND	ND	26.8	9/24/2024
SWCOMP17	6	240	L	ND	ND	ND	ND	ND	26.4	9/24/2024
SWCOMP18	8	240	L	ND	ND	ND	ND	ND	26.1	9/24/2024

- Composites
- Side Wall Composites



Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill H

Work Order: E409206

Job Number: 20046-0001

Received: 9/24/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/25/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 9/25/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill H
Workorder: E409206
Date Received: 9/24/2024 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/24/2024 7:30:00AM, under the Project Name: West Mount Spill H.

The analytical test results summarized in this report with the Project Name: West Mount Spill H 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 regarding 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
7 W. Compress Road
Artesia NM, 88210

Project Name: West Mount Spill H
Project Number: 20046-0001
Project Manager: Natalie Gladden

Reported:
09/25/24 16:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 1-8'	E409206-01A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 2-4'	E409206-02A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 3-2'	E409206-03A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 4-2'	E409206-04A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 5-6'	E409206-05A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 6-6'	E409206-06A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 7-6'	E409206-07A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 8-6'	E409206-08A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 9-8'	E409206-09A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 10-12'	E409206-10A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 11-8'	E409206-11A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 12-10'	E409206-12A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 13-12'	E409206-13A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 14-8'	E409206-14A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 15-10'	E409206-15A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 16-18'	E409206-16A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 17-12'	E409206-17A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 18-10'	E409206-18A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 19-20'	E409206-19A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.
SP Comp 20-12'	E409206-20A	Soil	09/20/24	09/24/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 1-8'
E409206-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Benzene	ND	0.0500	2	09/24/24	09/25/24	
Ethylbenzene	ND	0.0500	2	09/24/24	09/25/24	
Toluene	ND	0.0500	2	09/24/24	09/25/24	
o-Xylene	ND	0.0500	2	09/24/24	09/25/24	
p,m-Xylene	ND	0.100	2	09/24/24	09/25/24	
Total Xylenes	ND	0.0500	2	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.6 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Gasoline Range Organics (C6-C10)	ND	40.0	2	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.6 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439030	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/24/24	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	09/24/24	09/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439032	
Chloride	76.5	20.0	1	09/24/24	09/24/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 2-4'

E409206-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Benzene	ND	0.0500	2	09/24/24	09/25/24	
Ethylbenzene	ND	0.0500	2	09/24/24	09/25/24	
Toluene	ND	0.0500	2	09/24/24	09/25/24	
o-Xylene	ND	0.0500	2	09/24/24	09/25/24	
p,m-Xylene	ND	0.100	2	09/24/24	09/25/24	
Total Xylenes	ND	0.0500	2	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.9 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Gasoline Range Organics (C6-C10)	ND	40.0	2	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.5 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439030	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/24/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	09/24/24	09/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439032	
Chloride	81.5	20.0	1	09/24/24	09/24/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 3-2'

E409206-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Benzene	ND	0.0250	1	09/24/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/25/24	
Toluene	ND	0.0250	1	09/24/24	09/25/24	
o-Xylene	ND	0.0250	1	09/24/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.4 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.9 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439030	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/24/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	09/24/24	09/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439032	
Chloride	97.2	20.0	1	09/24/24	09/24/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 4-2'

E409206-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Benzene	ND	0.0500	2	09/24/24	09/25/24	
Ethylbenzene	ND	0.0500	2	09/24/24	09/25/24	
Toluene	ND	0.0500	2	09/24/24	09/25/24	
o-Xylene	ND	0.0500	2	09/24/24	09/25/24	
p,m-Xylene	ND	0.100	2	09/24/24	09/25/24	
Total Xylenes	ND	0.0500	2	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.8 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Gasoline Range Organics (C6-C10)	ND	40.0	2	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.3 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439030	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/24/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	09/24/24	09/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439032	
Chloride	94.9	20.0	1	09/24/24	09/24/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 5-6'

E409206-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Benzene	ND	0.0500	2	09/24/24	09/25/24	
Ethylbenzene	ND	0.0500	2	09/24/24	09/25/24	
Toluene	ND	0.0500	2	09/24/24	09/25/24	
o-Xylene	ND	0.0500	2	09/24/24	09/25/24	
p,m-Xylene	ND	0.100	2	09/24/24	09/25/24	
Total Xylenes	ND	0.0500	2	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.2 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Gasoline Range Organics (C6-C10)	ND	40.0	2	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.0 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439030	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/24/24	
<i>Surrogate: n-Nonane</i>		98.2 %	50-200	09/24/24	09/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439032	
Chloride	90.0	20.0	1	09/24/24	09/24/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 6-6'

E409206-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Benzene	ND	0.0250	1	09/24/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/25/24	
Toluene	ND	0.0250	1	09/24/24	09/25/24	
o-Xylene	ND	0.0250	1	09/24/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.8 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.3 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439030	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/24/24	
<i>Surrogate: n-Nonane</i>		98.4 %	50-200	09/24/24	09/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439032	
Chloride	97.9	20.0	1	09/24/24	09/24/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 7-6'

E409206-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Benzene	ND	0.0500	2	09/24/24	09/25/24	
Ethylbenzene	ND	0.0500	2	09/24/24	09/25/24	
Toluene	ND	0.0500	2	09/24/24	09/25/24	
o-Xylene	ND	0.0500	2	09/24/24	09/25/24	
p,m-Xylene	ND	0.100	2	09/24/24	09/25/24	
Total Xylenes	ND	0.0500	2	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.7 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Gasoline Range Organics (C6-C10)	ND	40.0	2	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.7 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439030	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/24/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	09/24/24	09/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439032	
Chloride	89.0	20.0	1	09/24/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 8-6'

E409206-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Benzene	ND	0.0250	1	09/24/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/25/24	
Toluene	ND	0.0250	1	09/24/24	09/25/24	
o-Xylene	ND	0.0250	1	09/24/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.5 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.8 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439030	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/24/24	
<i>Surrogate: n-Nonane</i>		98.2 %	50-200	09/24/24	09/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439032	
Chloride	98.0	20.0	1	09/24/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 9-8'

E409206-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Benzene	ND	0.0250	1	09/24/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/25/24	
Toluene	ND	0.0250	1	09/24/24	09/25/24	
o-Xylene	ND	0.0250	1	09/24/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.5 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.2 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439030	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/24/24	
<i>Surrogate: n-Nonane</i>		96.7 %	50-200	09/24/24	09/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439032	
Chloride	ND	20.0	1	09/24/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 10-12'

E409206-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Benzene	ND	0.0250	1	09/24/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/25/24	
Toluene	ND	0.0250	1	09/24/24	09/25/24	
o-Xylene	ND	0.0250	1	09/24/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.0 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.8 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439030	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/24/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	09/24/24	09/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439032	
Chloride	ND	20.0	1	09/24/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 11-8'

E409206-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439024
Benzene	ND	0.0250	1	09/24/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/25/24	
Toluene	ND	0.0250	1	09/24/24	09/25/24	
o-Xylene	ND	0.0250	1	09/24/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.3 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439024
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.6 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/24/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/24/24	
<i>Surrogate: n-Nonane</i>		95.0 %	50-200	09/24/24	09/24/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439032
Chloride	ND	20.0	1	09/24/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 12-10'

E409206-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439024
Benzene	ND	0.0250	1	09/24/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/25/24	
Toluene	ND	0.0250	1	09/24/24	09/25/24	
o-Xylene	ND	0.0250	1	09/24/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.7 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439024
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.6 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/25/24	
<i>Surrogate: n-Nonane</i>		97.5 %	50-200	09/24/24	09/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439032
Chloride	26.1	20.0	1	09/24/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 13-12'

E409206-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439024
Benzene	ND	0.0250	1	09/24/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/25/24	
Toluene	ND	0.0250	1	09/24/24	09/25/24	
o-Xylene	ND	0.0250	1	09/24/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.2 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439024
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.0 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/25/24	
<i>Surrogate: n-Nonane</i>		105 %	50-200	09/24/24	09/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439032
Chloride	ND	20.0	1	09/24/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 14-8'

E409206-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Benzene	ND	0.0250	1	09/24/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/25/24	
Toluene	ND	0.0250	1	09/24/24	09/25/24	
o-Xylene	ND	0.0250	1	09/24/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.2 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439030	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/25/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	09/24/24	09/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439032	
Chloride	ND	20.0	1	09/24/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 15-10'

E409206-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Benzene	ND	0.0250	1	09/24/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/25/24	
Toluene	ND	0.0250	1	09/24/24	09/25/24	
o-Xylene	ND	0.0250	1	09/24/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.4 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439030	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/25/24	
<i>Surrogate: n-Nonane</i>		99.2 %	50-200	09/24/24	09/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439032	
Chloride	22.5	20.0	1	09/24/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 16-18'

E409206-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Benzene	ND	0.0250	1	09/24/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/25/24	
Toluene	ND	0.0250	1	09/24/24	09/25/24	
o-Xylene	ND	0.0250	1	09/24/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.4 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439024	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.5 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439030	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/25/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	09/24/24	09/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439032	
Chloride	ND	20.0	1	09/24/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 17-12'

E409206-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439024
Benzene	ND	0.0250	1	09/24/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/25/24	
Toluene	ND	0.0250	1	09/24/24	09/25/24	
o-Xylene	ND	0.0250	1	09/24/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.0 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439024
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.4 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/25/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	09/24/24	09/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439032
Chloride	ND	20.0	1	09/24/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 18-10'

E409206-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439024
Benzene	ND	0.0250	1	09/24/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/25/24	
Toluene	ND	0.0250	1	09/24/24	09/25/24	
o-Xylene	ND	0.0250	1	09/24/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.1 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439024
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.2 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/25/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	09/24/24	09/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439032
Chloride	28.2	20.0	1	09/24/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 19-20'

E409206-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439024
Benzene	ND	0.0250	1	09/24/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/25/24	
Toluene	ND	0.0250	1	09/24/24	09/25/24	
o-Xylene	ND	0.0250	1	09/24/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.1 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439024
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.4 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/25/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	09/24/24	09/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439032
Chloride	ND	20.0	1	09/24/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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SP Comp 20-12'

E409206-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439024
Benzene	ND	0.0250	1	09/24/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/24/24	09/25/24	
Toluene	ND	0.0250	1	09/24/24	09/25/24	
o-Xylene	ND	0.0250	1	09/24/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/24/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/24/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.7 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439024
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/24/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.8 %	70-130	09/24/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439030
Diesel Range Organics (C10-C28)	ND	25.0	1	09/24/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/24/24	09/25/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	09/24/24	09/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439032
Chloride	ND	20.0	1	09/24/24	09/25/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2439024-BLK1)

Prepared: 09/24/24 Analyzed: 09/25/24

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	7.09		8.00		88.6	70-130			

LCS (2439024-BS1)

Prepared: 09/24/24 Analyzed: 09/25/24

Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	4.64	0.0250	5.00		92.8	70-130			
Toluene	4.75	0.0250	5.00		95.0	70-130			
o-Xylene	4.61	0.0250	5.00		92.1	70-130			
p,m-Xylene	9.44	0.0500	10.0		94.4	70-130			
Total Xylenes	14.0	0.0250	15.0		93.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.04		8.00		88.0	70-130			

LCS Dup (2439024-BSD1)

Prepared: 09/24/24 Analyzed: 09/25/24

Benzene	5.20	0.0250	5.00		104	70-130	7.31	20	
Ethylbenzene	4.99	0.0250	5.00		99.8	70-130	7.28	20	
Toluene	5.10	0.0250	5.00		102	70-130	7.12	20	
o-Xylene	4.96	0.0250	5.00		99.2	70-130	7.43	20	
p,m-Xylene	10.1	0.0500	10.0		101	70-130	7.22	20	
Total Xylenes	15.1	0.0250	15.0		101	70-130	7.29	20	
Surrogate: 4-Bromochlorobenzene-PID	7.16		8.00		89.5	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2439024-BLK1)

Prepared: 09/24/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.3	70-130			

LCS (2439024-BS2)

Prepared: 09/24/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.6	70-130			

LCS Dup (2439024-BSD2)

Prepared: 09/24/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	44.2	20.0	50.0		88.5	70-130	1.09	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.4	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill H	Reported: 9/25/2024 4:41:09PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2439030-BLK1)

Prepared: 09/24/24 Analyzed: 09/24/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.8		50.0		97.6	50-200			

LCS (2439030-BS1)

Prepared: 09/24/24 Analyzed: 09/24/24

Diesel Range Organics (C10-C28)	250	25.0	250		100	38-132			
Surrogate: n-Nonane	52.4		50.0		105	50-200			

LCS Dup (2439030-BSD1)

Prepared: 09/24/24 Analyzed: 09/24/24

Diesel Range Organics (C10-C28)	265	25.0	250		106	38-132	5.72	20	
Surrogate: n-Nonane	54.4		50.0		109	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/25/2024 4:41:09PM
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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
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Blank (2439032-BLK1)

Prepared: 09/24/24 Analyzed: 09/24/24

Chloride	ND	20.0							
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LCS (2439032-BS1)

Prepared: 09/24/24 Analyzed: 09/24/24

Chloride	256	20.0	250		102	90-110			
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Matrix Spike (2439032-MS1)

Source: E409206-06

Prepared: 09/24/24 Analyzed: 09/24/24

Chloride	361	20.0	250	97.9	105	80-120			
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Matrix Spike Dup (2439032-MSD1)

Source: E409206-06

Prepared: 09/24/24 Analyzed: 09/24/24

Chloride	358	20.0	250	97.9	104	80-120	0.804	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill H	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	09/25/24 16:41

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Chain of Custody

Project Information

Client: <u>Mobil Energy</u> Project: <u>West Mount Sp. H</u> Project Manager: Address: City, State, Zip: Phone: Email:	Bill To Attention: <u>ENERGY STAFFING SERVICES</u> Address: <u>2724 NW COUNTY RD</u> City, State, Zip: <u>HOBBS, NM 88240</u> Phone: <u>575 393-9048</u> Email: <u>NATALIE@ENERGYSTAFFINGLLC.COM</u> <u>BRITNEY@ENERGYSTAFFINGLLC.COM</u>	Lab Use Only		TAT			EPA Program	
		Lab WO# <u>E409206</u>	Job Number <u>20046-0001</u>	1D	2D	3D	Standard	CWA
Report due by		Analysis and Method					RCRA	
		DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 802	VOC by 805	Metals 6010	Chloride 3000	State
								NM CO UT AZ TX
								Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 802	VOC by 805	Metals 6010	Chloride 3000	LABOUR NM	LABOUR V	Remarks
	09/20	S	1	SP Conf 1 - 8'	1							X		
				SP Conf 2 - 4'	2									
				SP Conf 3 - 2'	3									
				SP Conf 4 - 2'	4									
				SP Conf 5 - 6'	5									
				SP Conf 6 - 6'	6									
				SP Conf 7 - 6'	7									
				SP Conf 8 - 6'	8									
				SP Conf 9 - 8'	9									
	09/20	S	1	SP Conf 10 - 12'	10							X		

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: Juan Solis

Received on ice: Y / N

Relinquished by: (Signature) <u>Juan Solis</u>	Date 09/20/24	Time 0345	Received by: (Signature) <u>[Signature]</u>	Date 9-23-24	Time 1345
Relinquished by: (Signature) <u>[Signature]</u>	Date 9-23-24	Time 1630	Received by: (Signature) <u>[Signature]</u>	Date 9-23-24	Time 1730
Relinquished by: (Signature) <u>[Signature]</u>	Date 9-23-24	Time 2400	Received by: (Signature) <u>[Signature]</u>	Date 9-24-24	Time 0730

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

AVG Temp °C 4

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.



Project Information

Chain of Custody

Client: **Altec Energy**
 Project: **West Runn Still H**
 Project Manager:
 Address: 2724 NW COUNTY RD
 City, State, Zip: **HOOPS, NM 88240**
 Phone: 575-393-9048
 Email: NATALIE@ENERGYSTARFENGILL.COM
 Email: BRITTNEY@ENERGYSTARFENGILL.COM

Report due by

Attention: **ENERGY STARFENGILL SERVICES**
 Lab WO# **409206**
 Job Number **20046-001**

EPA Program
 SDWA
 CWA
 Standard
 ID ZD 3D
 TAT

Analysis and Method
 RCRA
 State: NM CO UT AZ TX
 Remarks

Lab Use Only
 Lab Number
 Priority 3000
 Metals 6010
 VOC BY 8260
 STEX BY 9021
 GRO/DIC BY 9015
 DRO/DRO BY 9025

Time Sampled	Date Sampled	Matrix	SP of Sample	Sample ID	Lab Number
09/20	09/20	S	1	SP Core 11 - 8'	11
				SP Core 12 - 10'	12
				SP Core 13 - 12'	13
				SP Core 14 - 8'	14
				SP Core 15 - 10'	15
				SP Core 16 - 18'	16
				SP Core 17 - 12'	17
				SP Core 18 - 10'	18
				SP Core 19 - 20'	19
				SP Core 20 - 12'	20

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: **Juan Solis**

Received by: (Signature) **Juan Solis** Date: **09/20/24** Time: **1345**

Received by: (Signature) **[Signature]** Date: **9.23.24** Time: **1430**

Received by: (Signature) **[Signature]** Date: **9.23.24** Time: **0730**

Container Type: **g - glass, p - poly/plastic, ag - amber glass, v - VOA**
 Lab Use Only
 Received on ice: **0** / **N**
 T1: **4** T2: **13** T3: **13**
 AVG Temp °C: **4**

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 CDC. The liability of the laboratory is limited to the amount paid for on the report.



Envirotech Analytical Laboratory

Printed: 9/24/2024 11:32:35AM

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: 09/24/24 07:30 Work Order ID: E409206
Phone: (575) 390-6397 Date Logged In: 09/23/24 14:47 Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com Due Date: 09/25/24 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? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Comments/Resolution

Project Manager and time sampled not provided on COC per 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
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 filtration 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

Empty box for client instruction.

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill H

Work Order: E409214

Job Number: 20046-0001

Received: 9/25/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/26/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 9/26/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill H
Workorder: E409214
Date Received: 9/25/2024 5:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/25/2024 5:30:00AM, under the Project Name: West Mount Spill H.

The analytical test results summarized in this report with the Project Name: West Mount Spill H 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 regarding 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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mgonzales@envirotech-inc.com

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Sample Summary

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 09/26/24 12:19
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 21-10'	E409214-01A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SP Comp 22-20'	E409214-02A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SP Comp 23-12'	E409214-03A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SP Comp 24-12'	E409214-04A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SP Comp 25-20'	E409214-05A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SP Comp 26-12'	E409214-06A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SP Comp 27-12'	E409214-07A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:19:37PM
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SP Comp 21-10'

E409214-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439048	
Benzene	ND	0.0250	1	09/25/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/25/24	
Toluene	ND	0.0250	1	09/25/24	09/25/24	
o-Xylene	ND	0.0250	1	09/25/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		86.9 %	70-130	09/25/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.8 %	70-130	09/25/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439047	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/25/24	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	09/25/24	09/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439054	
Chloride	30.3	20.0	1	09/25/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:19:37PM
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SP Comp 22-20'

E409214-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439048	
Benzene	ND	0.0250	1	09/25/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/25/24	
Toluene	ND	0.0250	1	09/25/24	09/25/24	
o-Xylene	ND	0.0250	1	09/25/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.3 %	70-130	09/25/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.6 %	70-130	09/25/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439047	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/25/24	
<i>Surrogate: n-Nonane</i>		99.1 %	50-200	09/25/24	09/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439054	
Chloride	ND	20.0	1	09/25/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:19:37PM
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SP Comp 23-12'

E409214-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Benzene	ND	0.0250	1	09/25/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/25/24	
Toluene	ND	0.0250	1	09/25/24	09/25/24	
o-Xylene	ND	0.0250	1	09/25/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		89.5 %	70-130	09/25/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.0 %	70-130	09/25/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2439047
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/25/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/25/24	
<i>Surrogate: n-Nonane</i>						
		94.0 %	50-200	09/25/24	09/25/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2439054
Chloride	ND	20.0	1	09/25/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:19:37PM
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SP Comp 24-12'

E409214-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Benzene	ND	0.0250	1	09/25/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/25/24	
Toluene	ND	0.0250	1	09/25/24	09/25/24	
o-Xylene	ND	0.0250	1	09/25/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.6 %	70-130	09/25/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.7 %	70-130	09/25/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439047
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		101 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439054
Chloride	33.4	20.0	1	09/25/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:19:37PM
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SP Comp 25-20'

E409214-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439048	
Benzene	ND	0.0250	1	09/25/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/25/24	
Toluene	ND	0.0250	1	09/25/24	09/25/24	
o-Xylene	ND	0.0250	1	09/25/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.9 %	70-130	09/25/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.8 %	70-130	09/25/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439047	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		96.5 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439054	
Chloride	ND	20.0	1	09/25/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:19:37PM
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SP Comp 26-12'

E409214-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439048	
Benzene	ND	0.0250	1	09/25/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/25/24	
Toluene	ND	0.0250	1	09/25/24	09/25/24	
o-Xylene	ND	0.0250	1	09/25/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.3 %	70-130	09/25/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.5 %	70-130	09/25/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439047	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		96.2 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439054	
Chloride	28.4	20.0	1	09/25/24	09/25/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:19:37PM
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SP Comp 27-12'

E409214-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Benzene	ND	0.0250	1	09/25/24	09/25/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/25/24	
Toluene	ND	0.0250	1	09/25/24	09/25/24	
o-Xylene	ND	0.0250	1	09/25/24	09/25/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/25/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/25/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.1 %	70-130	09/25/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.7 %	70-130	09/25/24	09/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439047
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		90.0 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439054
Chloride	28.6	20.0	1	09/25/24	09/25/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:19:37PM
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Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2439048-BLK1)

Prepared: 09/25/24 Analyzed: 09/25/24

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	7.20		8.00		89.9	70-130			

LCS (2439048-BS1)

Prepared: 09/25/24 Analyzed: 09/25/24

Benzene	5.29	0.0250	5.00		106	70-130			
Ethylbenzene	5.13	0.0250	5.00		103	70-130			
Toluene	5.30	0.0250	5.00		106	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		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.91		8.00		86.4	70-130			

LCS Dup (2439048-BSD1)

Prepared: 09/25/24 Analyzed: 09/25/24

Benzene	4.83	0.0250	5.00		96.5	70-130	9.17	20	
Ethylbenzene	4.64	0.0250	5.00		92.7	70-130	10.1	20	
Toluene	4.75	0.0250	5.00		95.0	70-130	10.9	20	
o-Xylene	4.61	0.0250	5.00		92.2	70-130	9.54	20	
p,m-Xylene	9.38	0.0500	10.0		93.8	70-130	9.35	20	
Total Xylenes	14.0	0.0250	15.0		93.3	70-130	9.41	20	
Surrogate: 4-Bromochlorobenzene-PID	7.11		8.00		88.9	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:19:37PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2439048-BLK1)

Prepared: 09/25/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

LCS (2439048-BS2)

Prepared: 09/25/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	38.0	20.0	50.0		76.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		8.00		98.5	70-130			

LCS Dup (2439048-BSD2)

Prepared: 09/25/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0		81.9	70-130	7.42	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.3	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:19:37PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2439047-BLK1)

Prepared: 09/25/24 Analyzed: 09/25/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.6		50.0		99.3	50-200			

LCS (2439047-BS1)

Prepared: 09/25/24 Analyzed: 09/25/24

Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	51.9		50.0		104	50-200			

Matrix Spike (2439047-MS1)

Source: E409214-01

Prepared: 09/25/24 Analyzed: 09/25/24

Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	52.1		50.0		104	50-200			

Matrix Spike Dup (2439047-MSD1)

Source: E409214-01

Prepared: 09/25/24 Analyzed: 09/25/24

Diesel Range Organics (C10-C28)	264	25.0	250	ND	105	38-132	0.620	20	
Surrogate: n-Nonane	50.9		50.0		102	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:19:37PM
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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
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Blank (2439054-BLK1)

Prepared: 09/25/24 Analyzed: 09/25/24

Chloride ND 20.0

LCS (2439054-BS1)

Prepared: 09/25/24 Analyzed: 09/25/24

Chloride 254 20.0 250 102 90-110

Matrix Spike (2439054-MS1)

Source: E409214-04

Prepared: 09/25/24 Analyzed: 09/25/24

Chloride 282 20.0 250 33.4 99.4 80-120

Matrix Spike Dup (2439054-MSD1)

Source: E409214-04

Prepared: 09/25/24 Analyzed: 09/25/24

Chloride 289 20.0 250 33.4 102 80-120 2.32 20

QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill H	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	09/26/24 12:19

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project Information

Chain of Custody

Client: Mack Energy Project: WEST MOUNT SP.11 H Project Manager: Address: City, State, Zip: Phone: Email:		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# 409214 Job Number 20246-0001		TAT 1D <input type="checkbox"/> 2D <input checked="" type="checkbox"/> 3D <input type="checkbox"/>		EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/>	
Report due by:		Analysis and Method		State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>		Remarks			

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DNO by 8015	GRO/DHO by 8015	BTEX by 8011	VOC by 8260	Metals 8010	Chloride 8000	RG00C NM	RG00C TX	Remarks
	09/23	S	1	SP Comp 21 - 10'	1							X		
	}	}	}	SP Comp 22 - 20'	2							}		
				SP Comp 23 - 12'	3									
				SP Comp 24 - 12'	4									
				SP Comp 25 - 20'	5									
				SP Comp 26 - 12'	6									
	09/23	S	1	SP Comp 27 - 12'	7							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**

Relinquished by: (Signature) Juan Solis	Date 09/23/24	Time	Received by: (Signature) Michelle Gonzales	Date 9-24-24	Time 1330	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Relinquished by: (Signature) Michelle Gonzales	Date 9-24-24	Time 1602	Received by: (Signature) Camden Briggs	Date 9/24/24	Time 1730	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature) Camden Briggs	Date 9/24/24	Time 0030	Received by: (Signature) Stephan R Hees	Date 9-25-24	Time 0530	AVG Temp °C 4

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 Analytical Laboratory

Printed: 9/25/2024 10:26:11AM

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: 09/25/24 05:30	Work Order ID: E409214
Phone: (575) 390-6397	Date Logged In: 09/24/24 14:20	Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com	Due Date: 09/26/24 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? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Comments/Resolution

Project manager and time sampled not provided on COC per 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
- 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 filtration 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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill H

Work Order: E409216

Job Number: 20046-0001

Received: 9/25/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/26/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 9/26/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill H
Workorder: E409216
Date Received: 9/25/2024 5:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/25/2024 5:30:00AM, under the Project Name: West Mount Spill H.

The analytical test results summarized in this report with the Project Name: West Mount Spill H 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 regarding 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 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 09/26/24 12:21
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW Comp 1-8'	E409216-01A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW Comp 2-6'	E409216-02A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW Comp 3-2'	E409216-03A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW Comp 4-12'	E409216-04A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW Comp 5-12'	E409216-05A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW Comp 6-20'	E409216-06A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW Comp 7-20'	E409216-07A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW Comp 8-20'	E409216-08A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW Comp 9-20'	E409216-09A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW Comp 10-20'	E409216-10A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW Comp 11-12'	E409216-11A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW Comp 12-12'	E409216-12A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.
SW Comp 13-12'	E409216-13A	Soil	09/23/24	09/25/24	Glass Jar, 2 oz.

Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:21:07PM
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SW Comp 1-8'

E409216-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	mg/kg	Analyst: CG		Batch: 2439048
Benzene	ND	0.0250	1	09/25/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/26/24	
Toluene	ND	0.0250	1	09/25/24	09/26/24	
o-Xylene	ND	0.0250	1	09/25/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.6 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg	mg/kg	Analyst: CG		Batch: 2439048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.9 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO		mg/kg	mg/kg	Analyst: AF		Batch: 2439047
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		99.9 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A		mg/kg	mg/kg	Analyst: DT		Batch: 2439054
Chloride	55.1	20.0	1	09/25/24	09/26/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:21:07PM
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SW Comp 2-6'

E409216-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Benzene	ND	0.0250	1	09/25/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/26/24	
Toluene	ND	0.0250	1	09/25/24	09/26/24	
o-Xylene	ND	0.0250	1	09/25/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.4 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.0 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439047
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		104 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439054
Chloride	55.8	20.0	1	09/25/24	09/26/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:21:07PM
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SW Comp 3-2'

E409216-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Benzene	ND	0.0250	1	09/25/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/26/24	
Toluene	ND	0.0250	1	09/25/24	09/26/24	
o-Xylene	ND	0.0250	1	09/25/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.7 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.3 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439047
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		103 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439054
Chloride	52.3	20.0	1	09/25/24	09/26/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:21:07PM
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SW Comp 4-12'

E409216-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Benzene	ND	0.0250	1	09/25/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/26/24	
Toluene	ND	0.0250	1	09/25/24	09/26/24	
o-Xylene	ND	0.0250	1	09/25/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.5 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.9 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439047
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		96.9 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439054
Chloride	53.8	20.0	1	09/25/24	09/26/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:21:07PM
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SW Comp 5-12'

E409216-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Benzene	ND	0.0250	1	09/25/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/26/24	
Toluene	ND	0.0250	1	09/25/24	09/26/24	
o-Xylene	ND	0.0250	1	09/25/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.7 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.8 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439047
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439054
Chloride	ND	20.0	1	09/25/24	09/26/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:21:07PM
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SW Comp 6-20'

E409216-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: CG		Batch: 2439048	
Benzene	ND	0.0250	1	09/25/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/26/24	
Toluene	ND	0.0250	1	09/25/24	09/26/24	
o-Xylene	ND	0.0250	1	09/25/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.4 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: CG		Batch: 2439048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.3 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2439047	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		102 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2439054	
Chloride	ND	20.0	1	09/25/24	09/26/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:21:07PM
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SW Comp 7-20'

E409216-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Benzene	ND	0.0250	1	09/25/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/26/24	
Toluene	ND	0.0250	1	09/25/24	09/26/24	
o-Xylene	ND	0.0250	1	09/25/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.3 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.1 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439047
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		96.1 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439054
Chloride	ND	20.0	1	09/25/24	09/26/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:21:07PM
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SW Comp 8-20'

E409216-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Benzene	ND	0.0250	1	09/25/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/26/24	
Toluene	ND	0.0250	1	09/25/24	09/26/24	
o-Xylene	ND	0.0250	1	09/25/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.0 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.1 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439047
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		97.2 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439054
Chloride	ND	20.0	1	09/25/24	09/26/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:21:07PM
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SW Comp 9-20'

E409216-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Benzene	ND	0.0250	1	09/25/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/26/24	
Toluene	ND	0.0250	1	09/25/24	09/26/24	
o-Xylene	ND	0.0250	1	09/25/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.8 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.9 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439047
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		95.5 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439054
Chloride	ND	20.0	1	09/25/24	09/26/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:21:07PM
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SW Comp 10-20'

E409216-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Benzene	ND	0.0250	1	09/25/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/26/24	
Toluene	ND	0.0250	1	09/25/24	09/26/24	
o-Xylene	ND	0.0250	1	09/25/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.8 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.1 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439047
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		99.4 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439054
Chloride	ND	20.0	1	09/25/24	09/26/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:21:07PM
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SW Comp 11-12'

E409216-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Benzene	ND	0.0250	1	09/25/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/26/24	
Toluene	ND	0.0250	1	09/25/24	09/26/24	
o-Xylene	ND	0.0250	1	09/25/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.0 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.7 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439047
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		96.0 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439054
Chloride	ND	20.0	1	09/25/24	09/26/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:21:07PM
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SW Comp 12-12'

E409216-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Benzene	ND	0.0250	1	09/25/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/26/24	
Toluene	ND	0.0250	1	09/25/24	09/26/24	
o-Xylene	ND	0.0250	1	09/25/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.0 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.9 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: AF		Batch: 2439047
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		96.7 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439054
Chloride	ND	20.0	1	09/25/24	09/26/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:21:07PM
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SW Comp 13-12'

E409216-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Benzene	ND	0.0250	1	09/25/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/25/24	09/26/24	
Toluene	ND	0.0250	1	09/25/24	09/26/24	
o-Xylene	ND	0.0250	1	09/25/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/25/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/25/24	09/26/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		92.3 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: CG		Batch: 2439048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/25/24	09/26/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.6 %	70-130	09/25/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2439047
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>						
		92.5 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2439054
Chloride	ND	20.0	1	09/25/24	09/26/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:21:07PM
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Volatile Organics by EPA 8021B

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2439048-BLK1)

Prepared: 09/25/24 Analyzed: 09/25/24

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	7.20		8.00		89.9	70-130			

LCS (2439048-BS1)

Prepared: 09/25/24 Analyzed: 09/25/24

Benzene	5.29	0.0250	5.00		106	70-130			
Ethylbenzene	5.13	0.0250	5.00		103	70-130			
Toluene	5.30	0.0250	5.00		106	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		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.91		8.00		86.4	70-130			

LCS Dup (2439048-BSD1)

Prepared: 09/25/24 Analyzed: 09/25/24

Benzene	4.83	0.0250	5.00		96.5	70-130	9.17	20	
Ethylbenzene	4.64	0.0250	5.00		92.7	70-130	10.1	20	
Toluene	4.75	0.0250	5.00		95.0	70-130	10.9	20	
o-Xylene	4.61	0.0250	5.00		92.2	70-130	9.54	20	
p,m-Xylene	9.38	0.0500	10.0		93.8	70-130	9.35	20	
Total Xylenes	14.0	0.0250	15.0		93.3	70-130	9.41	20	
Surrogate: 4-Bromochlorobenzene-PID	7.11		8.00		88.9	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill H	Reported: 9/26/2024 12:21:07PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: CG

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2439048-BLK1)

Prepared: 09/25/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			

LCS (2439048-BS2)

Prepared: 09/25/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	38.0	20.0	50.0		76.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		8.00		98.5	70-130			

LCS Dup (2439048-BSD2)

Prepared: 09/25/24 Analyzed: 09/25/24

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0		81.9	70-130	7.42	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.3	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:21:07PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2439047-BLK1)

Prepared: 09/25/24 Analyzed: 09/25/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.6		50.0		99.3	50-200			

LCS (2439047-BS1)

Prepared: 09/25/24 Analyzed: 09/25/24

Diesel Range Organics (C10-C28)	261	25.0	250		104	38-132			
Surrogate: n-Nonane	51.9		50.0		104	50-200			

Matrix Spike (2439047-MS1)

Source: E409214-01

Prepared: 09/25/24 Analyzed: 09/25/24

Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132			
Surrogate: n-Nonane	52.1		50.0		104	50-200			

Matrix Spike Dup (2439047-MSD1)

Source: E409214-01

Prepared: 09/25/24 Analyzed: 09/25/24

Diesel Range Organics (C10-C28)	264	25.0	250	ND	105	38-132	0.620	20	
Surrogate: n-Nonane	50.9		50.0		102	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/26/2024 12:21:07PM
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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
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Blank (2439054-BLK1)

Prepared: 09/25/24 Analyzed: 09/25/24

Chloride	ND	20.0							
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LCS (2439054-BS1)

Prepared: 09/25/24 Analyzed: 09/25/24

Chloride	254	20.0	250		102	90-110			
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Matrix Spike (2439054-MS1)

Source: E409214-04

Prepared: 09/25/24 Analyzed: 09/25/24

Chloride	282	20.0	250	33.4	99.4	80-120			
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Matrix Spike Dup (2439054-MSD1)

Source: E409214-04

Prepared: 09/25/24 Analyzed: 09/25/24

Chloride	289	20.0	250	33.4	102	80-120	2.32	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill H	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	09/26/24 12:21

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project Information

Chain of Custody

Client: <u>Mack Energy</u> Project: <u>West Mount Spill H</u> Project Manager: Address: City, State, Zip: Phone: Email: Report due by:		Bill To Attention: <u>ENERGY STAFFING SERVICES</u> Address: <u>2724 NW COUNTY RD</u> City, State, Zip: <u>HOBBS, NM 88240</u> Phone: <u>575-393-9048</u> Email: <u>NATALIE@ENERGYSTAFFINGLLC.COM</u> <u>BRITTNEY@ENERGYSTAFFINGLLC.COM</u>		Lab Use Only Lab WO# <u>E 409216</u> Job Number <u>20046-0001</u> Analysis and Method		TAT 1D <input type="checkbox"/> 2D <input checked="" type="checkbox"/> 3D <input type="checkbox"/> Standard		EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/>	
				State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>				Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DIC by 8015	GRO/DIC by 8015	BTEX by 8021	VOC by 8160	Metals 8010	Other Analytes	8000 NM	8000 TX	Remarks
	09/23	S	1	Sw Comp 1 - 8'	1							X		
				Sw Comp 2 - 6'	2									
				Sw Comp 3 - 2'	3									
				Sw Comp 4 - 12'	4									
				Sw Comp 5 - 12'	5									
				Sw Comp 6 - 20'	6									
				Sw Comp 7 - 20'	7									
				Sw Comp 8 - 20'	8									
				Sw Comp 9 - 20'	9									
	09/23	S	1	Sw Comp 10 - 20'	10							X		

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.

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.			
Sampled by: <u>Juan Solis</u>			
Relinquished by: (Signature) <u>Juan Solis</u>	Date <u>09/23/24</u>	Time _____	Received by: (Signature) <u>Michelle Gonzales</u>
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>9-24-24</u>	Time <u>1602</u>	Received by: (Signature) <u>Camden Briggs</u>
Relinquished by: (Signature) <u>Camden Briggs</u>	Date <u>9/25/24</u>	Time <u>0030</u>	Received by: (Signature) <u>Kristin R Hill</u>
Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N		T1 _____ T2 _____ T3 _____	
AVG Temp °C <u>4</u>		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.



52 fo 23 egep

Page 277 of 343

Project Information

Chain of Custody

Client: <u>MOAC Energy</u> Project: <u>West Mount Spill H</u> Project Manager: Address: City, State, Zip: Phone: Email: Report due by:		Bill To Attention: <u>ENERGY STAFFING SERVICES</u> Address: <u>2724 NW COUNTY RD</u> City, State, Zip: <u>HOBBS, NM 88240</u> Phone: <u>575-393-9048</u> Email: <u>NATALIE@ENERGYSTAFFINGLLC.COM</u> <u>BRITTNEY@ENERGYSTAFFINGLLC.COM</u>		Lab Use Only Lab WO# <u>E 409216</u> Job Number <u>20046-0001</u> Analysis and Method		TAT ID <input type="checkbox"/> 2D <input checked="" type="checkbox"/> 3D <input type="checkbox"/> Standard		EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/> RCRA <input type="checkbox"/>	
						State NM <input checked="" type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>		Remarks	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8035	GRO/DIC by 8015	BTEX by 8021	VOC by 8160	Metals 8020	Chloride 8000	RGDOC NM	RGDOC TX	Remarks
	09/23	S	1	Sw Comp 11 - 12'	11							X		
		S	5	Sw Comp 12 - 12'	12							S		
	09/23	S	1	Sw Comp 13 - 12'	13							X		

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: 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) <u>Juan Solis</u>	Date <u>09/23/24</u>	Time	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>9-24-24</u>	Time <u>1230</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>9-24-24</u>	Time <u>1602</u>	Received by: (Signature) <u>Camden Briggs</u>	Date <u>9/24/24</u>	Time <u>1730</u>	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature) <u>Camden Briggs</u>	Date <u>9/25/24</u>	Time <u>0030</u>	Received by: (Signature) <u>Kayla R. Hall</u>	Date <u>9-25-24</u>	Time <u>0530</u>	AVG Temp °C <u>4</u>

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 Analytical Laboratory

Printed: 9/25/2024 10:39:23AM

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: 09/25/24 05:30	Work Order ID: E409216
Phone: (575) 390-6397	Date Logged In: 09/24/24 14:26	Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com	Due Date: 09/26/24 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? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Comments/Resolution

Project manager and time sampled not provided on COC per 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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
- 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 filtration 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



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill H

Work Order: E409237

Job Number: 20046-0001

Received: 9/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/27/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 9/27/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill H
Workorder: E409237
Date Received: 9/26/2024 8:10:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/26/2024 8:10:00AM, under the Project Name: West Mount Spill H.

The analytical test results summarized in this report with the Project Name: West Mount Spill H 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 regarding 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 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 09/27/24 15:33
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW Comp 14-10'	E409237-01A	Soil	09/24/24	09/26/24	Glass Jar, 2 oz.
SW Comp 15-10'	E409237-02A	Soil	09/24/24	09/26/24	Glass Jar, 2 oz.
SW Comp 16-8'	E409237-03A	Soil	09/24/24	09/26/24	Glass Jar, 2 oz.
SW Comp 17-6'	E409237-04A	Soil	09/24/24	09/26/24	Glass Jar, 2 oz.
SW Comp 18-8'	E409237-05A	Soil	09/24/24	09/26/24	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/27/2024 3:33:55PM
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SW Comp 14-10'
E409237-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2439077
Benzene	ND	0.0250	1	09/26/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/26/24	09/26/24	
Toluene	ND	0.0250	1	09/26/24	09/26/24	
o-Xylene	ND	0.0250	1	09/26/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/26/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/26/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		99.1 %	70-130	09/26/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.5 %	70-130	09/26/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/26/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2439077
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		99.1 %	70-130	09/26/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.5 %	70-130	09/26/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/26/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2439071
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		119 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439085
Chloride	24.2	20.0	1	09/26/24	09/26/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/27/2024 3:33:55PM
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SW Comp 15-10'

E409237-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439077
Benzene	ND	0.0250	1	09/26/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/26/24	09/26/24	
Toluene	ND	0.0250	1	09/26/24	09/26/24	
o-Xylene	ND	0.0250	1	09/26/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/26/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/26/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	09/26/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.9 %	70-130	09/26/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/26/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439077
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		101 %	70-130	09/26/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.9 %	70-130	09/26/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		106 %	70-130	09/26/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2439071
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		117 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2439085
Chloride	24.1	20.0	1	09/26/24	09/26/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/27/2024 3:33:55PM
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SW Comp 16-8'

E409237-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439077
Benzene	ND	0.0250	1	09/26/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/26/24	09/26/24	
Toluene	ND	0.0250	1	09/26/24	09/26/24	
o-Xylene	ND	0.0250	1	09/26/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/26/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/26/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	09/26/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.5 %	70-130	09/26/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	09/26/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2439077
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		100 %	70-130	09/26/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.5 %	70-130	09/26/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	09/26/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2439071
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		117 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2439085
Chloride	26.8	20.0	1	09/26/24	09/26/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/27/2024 3:33:55PM
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SW Comp 17-6'

E409237-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2439077
Benzene	ND	0.0250	1	09/26/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/26/24	09/26/24	
Toluene	ND	0.0250	1	09/26/24	09/26/24	
o-Xylene	ND	0.0250	1	09/26/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/26/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/26/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		99.0 %	70-130	09/26/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.5 %	70-130	09/26/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	09/26/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2439077
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		99.0 %	70-130	09/26/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		94.5 %	70-130	09/26/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		104 %	70-130	09/26/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2439071
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/26/24	
<i>Surrogate: n-Nonane</i>		122 %	50-200	09/25/24	09/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439085
Chloride	26.4	20.0	1	09/26/24	09/26/24	



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/27/2024 3:33:55PM
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SW Comp 18-8'
E409237-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2439077
Benzene	ND	0.0250	1	09/26/24	09/26/24	
Ethylbenzene	ND	0.0250	1	09/26/24	09/26/24	
Toluene	ND	0.0250	1	09/26/24	09/26/24	
o-Xylene	ND	0.0250	1	09/26/24	09/26/24	
p,m-Xylene	ND	0.0500	1	09/26/24	09/26/24	
Total Xylenes	ND	0.0250	1	09/26/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		99.7 %	70-130	09/26/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.8 %	70-130	09/26/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	09/26/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2439077
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/26/24	09/26/24	
<i>Surrogate: Bromofluorobenzene</i>		99.7 %	70-130	09/26/24	09/26/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		93.8 %	70-130	09/26/24	09/26/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	09/26/24	09/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2439071
Diesel Range Organics (C10-C28)	ND	25.0	1	09/25/24	09/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	09/25/24	09/27/24	
<i>Surrogate: n-Nonane</i>		121 %	50-200	09/25/24	09/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2439085
Chloride	26.1	20.0	1	09/26/24	09/26/24	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/27/2024 3:33:55PM
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Volatile Organic Compounds by EPA 8260B

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
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Blank (2439077-BLK1)

Prepared: 09/26/24 Analyzed: 09/26/24

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	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

LCS (2439077-BS1)

Prepared: 09/26/24 Analyzed: 09/26/24

Benzene	2.31	0.0250	2.50		92.3	70-130			
Ethylbenzene	2.32	0.0250	2.50		92.8	70-130			
Toluene	2.32	0.0250	2.50		92.7	70-130			
o-Xylene	2.32	0.0250	2.50		92.7	70-130			
p,m-Xylene	4.66	0.0500	5.00		93.1	70-130			
Total Xylenes	6.97	0.0250	7.50		93.0	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.8	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			

LCS Dup (2439077-BSD1)

Prepared: 09/26/24 Analyzed: 09/26/24

Benzene	2.32	0.0250	2.50		92.6	70-130	0.303	23	
Ethylbenzene	2.30	0.0250	2.50		91.9	70-130	0.909	27	
Toluene	2.30	0.0250	2.50		92.0	70-130	0.823	24	
o-Xylene	2.31	0.0250	2.50		92.3	70-130	0.432	27	
p,m-Xylene	4.64	0.0500	5.00		92.7	70-130	0.463	27	
Total Xylenes	6.94	0.0250	7.50		92.6	70-130	0.453	27	
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.482		0.500		96.4	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			



QC Summary Data

Mack Energy	Project Name:	West Mount Spill H	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	9/27/2024 3:33:55PM

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 (2439077-BLK1)

Prepared: 09/26/24 Analyzed: 09/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

LCS (2439077-BS2)

Prepared: 09/26/24 Analyzed: 09/26/24

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0		101	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.458		0.500		91.6	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

LCS Dup (2439077-BSD2)

Prepared: 09/26/24 Analyzed: 09/26/24

Gasoline Range Organics (C6-C10)	51.3	20.0	50.0		103	70-130	1.28	20	
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/27/2024 3:33:55PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2439071-BLK1)

Prepared: 09/25/24 Analyzed: 09/26/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.5		50.0		113	50-200			

LCS (2439071-BS1)

Prepared: 09/25/24 Analyzed: 09/26/24

Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	59.5		50.0		119	50-200			

Matrix Spike (2439071-MS1)

Source: E409133-06

Prepared: 09/25/24 Analyzed: 09/26/24

Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	59.4		50.0		119	50-200			

Matrix Spike Dup (2439071-MSD1)

Source: E409133-06

Prepared: 09/25/24 Analyzed: 09/26/24

Diesel Range Organics (C10-C28)	295	25.0	250	ND	118	38-132	14.5	20	
Surrogate: n-Nonane	59.3		50.0		119	50-200			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 9/27/2024 3:33:55PM
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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
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Blank (2439085-BLK1)

Prepared: 09/26/24 Analyzed: 09/26/24

Chloride	ND	20.0							
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LCS (2439085-BS1)

Prepared: 09/26/24 Analyzed: 09/26/24

Chloride	256	20.0	250		102	90-110			
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Matrix Spike (2439085-MS1)

Source: E409226-26

Prepared: 09/26/24 Analyzed: 09/26/24

Chloride	313	20.0	250	53.1	104	80-120			
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Matrix Spike Dup (2439085-MSD1)

Source: E409226-26

Prepared: 09/26/24 Analyzed: 09/26/24

Chloride	312	20.0	250	53.1	104	80-120	0.221	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill H	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	09/27/24 15:33

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project Information

Chain of Custody

Client: MCC Energy	Bill To	Lab Use Only	TAT			EPA Program							
Project: West Mount Hill H	Attention: ENERGY STAFFING SERVICES	Lab WO# E409237	Job Number 20046000	1D	2D	3D	Standard	CWA	SDWA				
Project Manager:	Address: 2724 NW COUNTY RD	Analysis and Method							RCRA				
Address:	City, State, Zip: HOBBS, NM 88240												
City, State, Zip:	Phone: 575-393-9048								State				
Phone:	Email: NATALIE@ENERGYSTAFFINGLLC.COM								NM	CO	UT	AZ	TX
Email:	Email: BRITTNEY@ENERGYSTAFFINGLLC.COM								Remarks				
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DIC by 8015	GRO/DIC by 8015	STEX by 8021	VOC by 8260	Metals 8020	0006 8020	BODUC NM	BODUC TX	Remarks
	09/24	S	1	SW Comp 14 - 10'	1							X		
	}	}	}	SW Comp 15 - 10'	2							}		
				SW Comp 16 - 8'	3									
				SW Comp 17 - 6'	4									
	09/24	S	1	SW Comp 18 - 8'	5							X		

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: **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	Lab Use Only		
Juan Solis	09/24/24		Michelle Gonzales	9-25-24	1250	Received on ice: <input checked="" type="checkbox"/> N		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1	T2	T3
Michelle Gonzales	9-25-24	1545	John Hobbs	9-25-24	1730			
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C		
John Hobbs	9-25-24	2400	Cathy Man	9-26-24	8:10	4		

Sample Matrix: S - Soil, Sd - Solid, Sp - 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 Analytical Laboratory

Printed: 9/26/2024 11:22:20AM

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: 09/26/24 08:10 Work Order ID: E409237
Phone: (575) 390-6397 Date Logged In: 09/25/24 15:24 Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com Due Date: 09/27/24 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? Yes

Carrier: Courier

Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

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? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

- 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

- 14. Are aqueous VOC samples present? No
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 filtration 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

Empty box for client instruction.

Comments/Resolution

Project Manager and time sampled not provided on COC per client.

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

Date



envirotech Inc.

Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill H

Work Order: E507265

Job Number: 20046-0001

Received: 7/23/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/24/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.



Date Reported: 7/24/25

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill H
Workorder: E507265
Date Received: 7/23/2025 7:30:39AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/23/2025 7:30:39AM, under the Project Name: West Mount Spill H.

The analytical test results summarized in this report with the Project Name: West Mount Spill H 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 regarding 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 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/24/25 10:10
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BACKFILL COMP 1 -SURF	E507265-01A	Soil	07/21/25	07/23/25	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/24/2025 10:10:53AM
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**BACKFILL COMP 1 -SURF
E507265-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2530065
Benzene	ND	0.0250	1	07/23/25	07/23/25	
Ethylbenzene	ND	0.0250	1	07/23/25	07/23/25	
Toluene	ND	0.0250	1	07/23/25	07/23/25	
o-Xylene	ND	0.0250	1	07/23/25	07/23/25	
p,m-Xylene	ND	0.0500	1	07/23/25	07/23/25	
Total Xylenes	ND	0.0250	1	07/23/25	07/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.0 %	70-130	07/23/25	07/23/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2530065
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/25	07/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.0 %	70-130	07/23/25	07/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2530088
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/25	07/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/25	07/23/25	
<i>Surrogate: n-Nonane</i>						
		77.4 %	61-141	07/23/25	07/23/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2530066
Chloride	ND	20.0	1	07/23/25	07/23/25	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/24/2025 10:10:53AM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2530065-BLK1)

Prepared: 07/23/25 Analyzed: 07/23/25

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	6.87		8.00		85.8	70-130			

LCS (2530065-BS1)

Prepared: 07/23/25 Analyzed: 07/23/25

Benzene	5.26	0.0250	5.00		105	70-130			
Ethylbenzene	5.15	0.0250	5.00		103	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.10	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		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.84		8.00		85.5	70-130			

Matrix Spike (2530065-MS1)

Source: E507275-03

Prepared: 07/23/25 Analyzed: 07/23/25

Benzene	4.71	0.0250	5.00	ND	94.3	70-130			
Ethylbenzene	4.60	0.0250	5.00	ND	92.1	70-130			
Toluene	4.71	0.0250	5.00	0.0367	93.5	70-130			
o-Xylene	4.63	0.0250	5.00	0.0794	91.0	70-130			
p,m-Xylene	9.58	0.0500	10.0	0.267	93.1	70-130			
Total Xylenes	14.2	0.0250	15.0	0.346	92.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.84		8.00		85.5	70-130			

Matrix Spike Dup (2530065-MSD1)

Source: E507275-03

Prepared: 07/23/25 Analyzed: 07/23/25

Benzene	5.39	0.0250	5.00	ND	108	70-130	13.4	27	
Ethylbenzene	5.28	0.0250	5.00	ND	106	70-130	13.6	26	
Toluene	5.39	0.0250	5.00	0.0367	107	70-130	13.4	20	
o-Xylene	5.31	0.0250	5.00	0.0794	105	70-130	13.7	25	
p,m-Xylene	10.9	0.0500	10.0	0.267	107	70-130	13.3	23	
Total Xylenes	16.2	0.0250	15.0	0.346	106	70-130	13.4	26	
Surrogate: 4-Bromochlorobenzene-PID	6.79		8.00		84.9	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/24/2025 10:10:53AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec % %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2530065-BLK1)

Prepared: 07/23/25 Analyzed: 07/23/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.64		8.00		83.0	70-130			

LCS (2530065-BS2)

Prepared: 07/23/25 Analyzed: 07/23/25

Gasoline Range Organics (C6-C10)	37.3	20.0	50.0		74.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.75		8.00		84.4	70-130			

Matrix Spike (2530065-MS2)

Source: E507275-03

Prepared: 07/23/25 Analyzed: 07/23/25

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.2	70-130			

Matrix Spike Dup (2530065-MSD2)

Source: E507275-03

Prepared: 07/23/25 Analyzed: 07/23/25

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	88.9	70-130	11.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/24/2025 10:10:53AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2530088-BLK1)

Prepared: 07/23/25 Analyzed: 07/23/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	39.3		50.0		78.6	61-141			

LCS (2530088-BS1)

Prepared: 07/23/25 Analyzed: 07/23/25

Diesel Range Organics (C10-C28)	228	25.0	250		91.1	66-144			
Surrogate: n-Nonane	40.2		50.0		80.3	61-141			

Matrix Spike (2530088-MS1)

Source: E507275-03

Prepared: 07/23/25 Analyzed: 07/23/25

Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.3	56-156			
Surrogate: n-Nonane	40.2		50.0		80.4	61-141			

Matrix Spike Dup (2530088-MSD1)

Source: E507275-03

Prepared: 07/23/25 Analyzed: 07/23/25

Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.0	56-156	3.56	20	
Surrogate: n-Nonane	40.5		50.0		81.1	61-141			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/24/2025 10:10:53AM
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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
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Blank (2530066-BLK1)

Prepared: 07/23/25 Analyzed: 07/23/25

Chloride ND 20.0

LCS (2530066-BS1)

Prepared: 07/23/25 Analyzed: 07/23/25

Chloride 253 20.0 250 101 90-110

Matrix Spike (2530066-MS1)

Source: E507264-01

Prepared: 07/23/25 Analyzed: 07/23/25

Chloride 252 20.0 250 ND 101 80-120

Matrix Spike Dup (2530066-MSD1)

Source: E507264-01

Prepared: 07/23/25 Analyzed: 07/23/25

Chloride 253 20.0 250 ND 101 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 Spill H	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/24/25 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.



Envirotech Analytical Laboratory

Printed: 7/23/2025 8:26:21AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 07/23/25 07:30	Work Order ID: E507265
Phone: (575) 390-6397	Date Logged In: 07/22/25 14:08	Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com	Due Date: 07/24/25 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? Yes
- Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Carrier: Courier

Comments/Resolution

Project manager and time sampled not provided on COC.

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? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

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 filtration 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



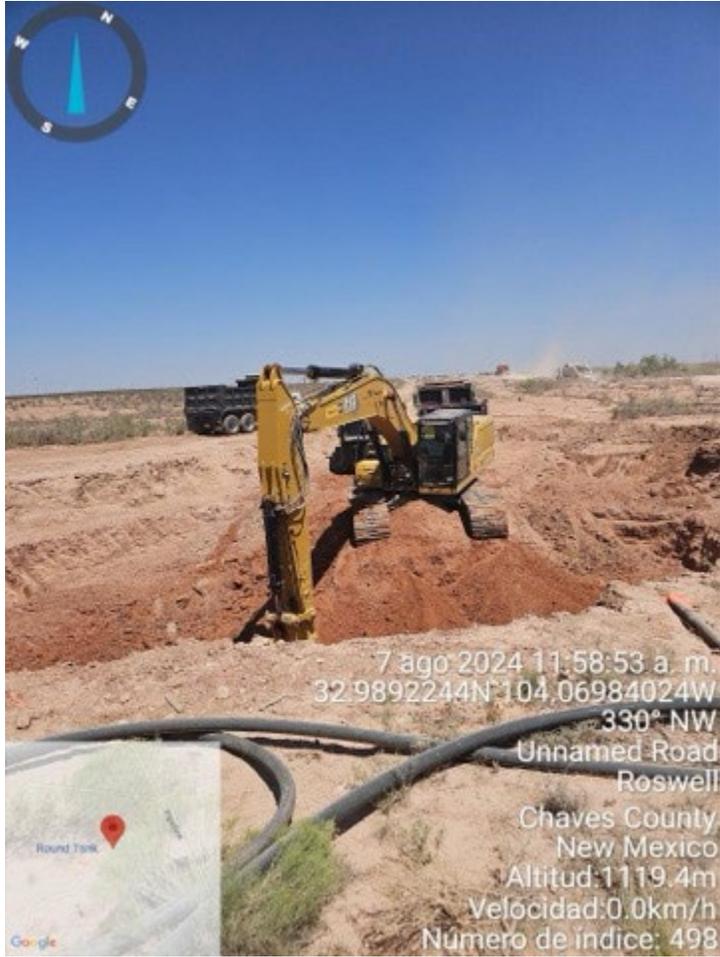
envirotech Inc.

REMEDIATION AND FINAL PHOTOS
WEST MOUNT H



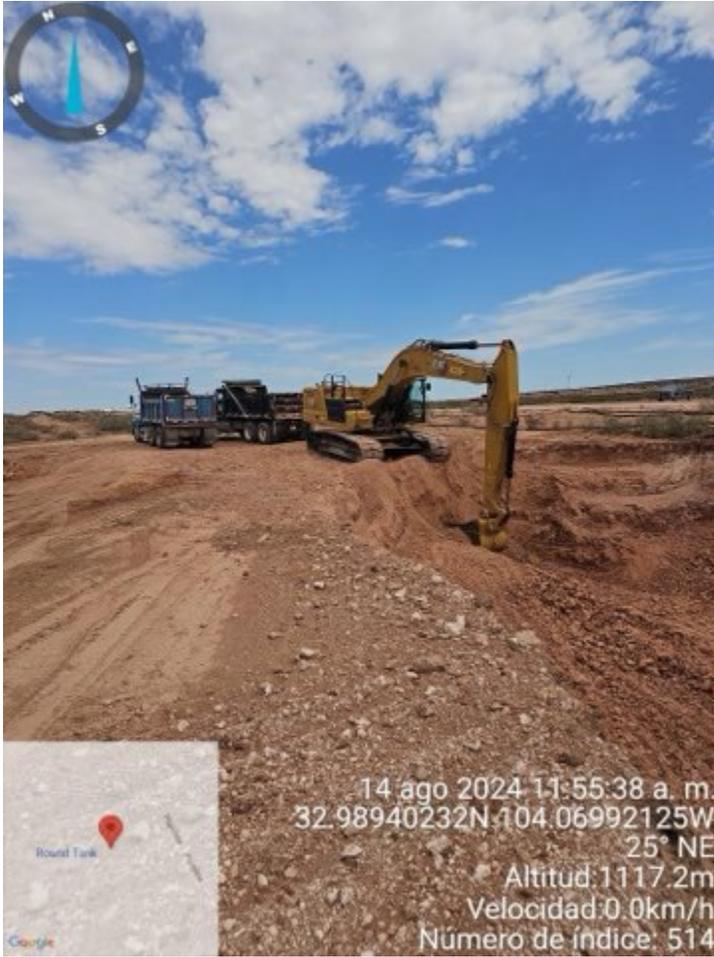














**MACK ENERGY CORPORATION
WEST MOUNT SPILL H
RECLAMATION EXECUTIVE SUMMARY
INCIDENT NO. NAPP2329737108**

**API NO. 30-005-64381
UNIT LETTER C, SECTION 30, TOWNSHIP 15S, RANGE 29E
CHAVES COUNTY, NEW MEXICO**

Reclamation Executive Summary

Subject: Final Reclamation Summary-West Mount Spill H (Incident No. NAPP2329737108)

On January 14, 2025 ESS initiated and completed reclamation activities at the West Mount Spill H site following the finalization of remediation efforts for the release that occurred on September 21, 2023 (Incident Number: NAPP2329737108).

A total of 727.12 cubic yards of topsoil was loaded and hauled from Mack Energy's Bogel Pit. The topsoil was evenly spread across the entire 4,908 square-foot impacted area. The site was then ripped, contoured, and sloped to match the natural grade. Reseeding was conducted using the Sandy Loam Seed Mix from Curtis and Curtis Seed, which covered the excavation area and disturbed area used for remediation and reclamation efforts consisting of 4,908 square-foot in accordance with State Land Office (SLO) Rules and Regulations.

A five-point composite was taken from the center of the excavation/backfill area located at 32.989317 -104.069914. Please find the reclamation composite map and confirmed lab analysis attached herein.

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

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

RECLAMATION AND SEEDING PHOTOS
WEST MOUNT SPILL H











Report to:
Natalie Gladden



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Mack Energy

Project Name: West Mount Spill H

Work Order: E507265

Job Number: 20046-0001

Received: 7/23/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
7/24/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/24/25



Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: West Mount Spill H
Workorder: E507265
Date Received: 7/23/2025 7:30:39AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/23/2025 7:30:39AM, under the Project Name: West Mount Spill H.

The analytical test results summarized in this report with the Project Name: West Mount Spill H 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 regarding 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 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 07/24/25 10:10
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BACKFILL COMP 1 -SURF	E507265-01A	Soil	07/21/25	07/23/25	Glass Jar, 2 oz.



Sample Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/24/2025 10:10:53AM
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**BACKFILL COMP 1 -SURF
E507265-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2530065
Benzene	ND	0.0250	1	07/23/25	07/23/25	
Ethylbenzene	ND	0.0250	1	07/23/25	07/23/25	
Toluene	ND	0.0250	1	07/23/25	07/23/25	
o-Xylene	ND	0.0250	1	07/23/25	07/23/25	
p,m-Xylene	ND	0.0500	1	07/23/25	07/23/25	
Total Xylenes	ND	0.0250	1	07/23/25	07/23/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		88.0 %	70-130	07/23/25	07/23/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2530065
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/23/25	07/23/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		83.0 %	70-130	07/23/25	07/23/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2530088
Diesel Range Organics (C10-C28)	ND	25.0	1	07/23/25	07/23/25	
Oil Range Organics (C28-C36)	ND	50.0	1	07/23/25	07/23/25	
<i>Surrogate: n-Nonane</i>						
		77.4 %	61-141	07/23/25	07/23/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2530066
Chloride	ND	20.0	1	07/23/25	07/23/25	



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/24/2025 10:10:53AM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2530065-BLK1)

Prepared: 07/23/25 Analyzed: 07/23/25

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	6.87		8.00		85.8	70-130			

LCS (2530065-BS1)

Prepared: 07/23/25 Analyzed: 07/23/25

Benzene	5.26	0.0250	5.00		105	70-130			
Ethylbenzene	5.15	0.0250	5.00		103	70-130			
Toluene	5.22	0.0250	5.00		104	70-130			
o-Xylene	5.10	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		103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.84		8.00		85.5	70-130			

Matrix Spike (2530065-MS1)

Source: E507275-03

Prepared: 07/23/25 Analyzed: 07/23/25

Benzene	4.71	0.0250	5.00	ND	94.3	70-130			
Ethylbenzene	4.60	0.0250	5.00	ND	92.1	70-130			
Toluene	4.71	0.0250	5.00	0.0367	93.5	70-130			
o-Xylene	4.63	0.0250	5.00	0.0794	91.0	70-130			
p,m-Xylene	9.58	0.0500	10.0	0.267	93.1	70-130			
Total Xylenes	14.2	0.0250	15.0	0.346	92.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.84		8.00		85.5	70-130			

Matrix Spike Dup (2530065-MSD1)

Source: E507275-03

Prepared: 07/23/25 Analyzed: 07/23/25

Benzene	5.39	0.0250	5.00	ND	108	70-130	13.4	27	
Ethylbenzene	5.28	0.0250	5.00	ND	106	70-130	13.6	26	
Toluene	5.39	0.0250	5.00	0.0367	107	70-130	13.4	20	
o-Xylene	5.31	0.0250	5.00	0.0794	105	70-130	13.7	25	
p,m-Xylene	10.9	0.0500	10.0	0.267	107	70-130	13.3	23	
Total Xylenes	16.2	0.0250	15.0	0.346	106	70-130	13.4	26	
Surrogate: 4-Bromochlorobenzene-PID	6.79		8.00		84.9	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/24/2025 10:10:53AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2530065-BLK1)

Prepared: 07/23/25 Analyzed: 07/23/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.64		8.00		83.0	70-130			

LCS (2530065-BS2)

Prepared: 07/23/25 Analyzed: 07/23/25

Gasoline Range Organics (C6-C10)	37.3	20.0	50.0		74.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.75		8.00		84.4	70-130			

Matrix Spike (2530065-MS2)

Source: E507275-03

Prepared: 07/23/25 Analyzed: 07/23/25

Gasoline Range Organics (C6-C10)	49.7	20.0	50.0	ND	99.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.2	70-130			

Matrix Spike Dup (2530065-MSD2)

Source: E507275-03

Prepared: 07/23/25 Analyzed: 07/23/25

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	88.9	70-130	11.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/24/2025 10:10:53AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2530088-BLK1)

Prepared: 07/23/25 Analyzed: 07/23/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	39.3		50.0		78.6	61-141			

LCS (2530088-BS1)

Prepared: 07/23/25 Analyzed: 07/23/25

Diesel Range Organics (C10-C28)	228	25.0	250		91.1	66-144			
Surrogate: <i>n</i> -Nonane	40.2		50.0		80.3	61-141			

Matrix Spike (2530088-MS1)

Source: E507275-03

Prepared: 07/23/25 Analyzed: 07/23/25

Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.3	56-156			
Surrogate: <i>n</i> -Nonane	40.2		50.0		80.4	61-141			

Matrix Spike Dup (2530088-MSD1)

Source: E507275-03

Prepared: 07/23/25 Analyzed: 07/23/25

Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.0	56-156	3.56	20	
Surrogate: <i>n</i> -Nonane	40.5		50.0		81.1	61-141			



QC Summary Data

Mack Energy 7 W. Compress Road Artesia NM, 88210	Project Name: West Mount Spill H Project Number: 20046-0001 Project Manager: Natalie Gladden	Reported: 7/24/2025 10:10:53AM
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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
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Blank (2530066-BLK1)

Prepared: 07/23/25 Analyzed: 07/23/25

Chloride	ND	20.0							
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LCS (2530066-BS1)

Prepared: 07/23/25 Analyzed: 07/23/25

Chloride	253	20.0	250		101	90-110			
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Matrix Spike (2530066-MS1)

Source: E507264-01

Prepared: 07/23/25 Analyzed: 07/23/25

Chloride	252	20.0	250	ND	101	80-120			
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Matrix Spike Dup (2530066-MSD1)

Source: E507264-01

Prepared: 07/23/25 Analyzed: 07/23/25

Chloride	253	20.0	250	ND	101	80-120	0.252	20	
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QC Summary Report Comment:

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



Definitions and Notes

Mack Energy	Project Name:	West Mount Spill H	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	07/24/25 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.



Envirotech Analytical Laboratory

Printed: 7/23/2025 8:26:21AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Mack Energy	Date Received: 07/23/25 07:30	Work Order ID: E507265
Phone: (575) 390-6397	Date Logged In: 07/22/25 14:08	Logged In By: Caitlin Mars
Email: Natalie@energystaffingllc.com	Due Date: 07/24/25 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? Yes
- Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this discussion.

Carrier: Courier

Comments/Resolution

Project manager and time sampled not provided on COC.

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? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

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 filtration 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.



Mack Energy
 NMSLO Sandy Loam- 1.8 Ac Broadcasted
 Lot #: 68135
 28.29

Item	% Pure Mix	Origin	Purity	Germ	Dormant	Total Germ:	Test Date
Little Bluestem, Aldous	9.72%	Kansas	61.69%	59.00%	31.00%	90.00%	11/2024
Galleta, Viva	9.30%	Texas	86.14%	21.00%	73.00%	94.00%	9/2024
Blue Grama, Alma	7.36%	Texas	31.75%	94.00%	1.00%	95.00%	10/2024
Sidecoats Grama, Niner	7.21%	Texas	71.10%	16.00%	81.00%	97.00%	12/2024
Four-wing Saltbush, Variety Not Stated	7.07%	New Mexico	91.52%	0.00%	0.00%	99.00%	11/2024
Winter Fat, Variety Not Stated	6.66%	New Mexico	89.97%	90.00%	2.00%	92.00%	8/2024
Palmer Penstemon, Variety Not Stated	3.72%	Utah	98.86%	15.00%	79.00%	94.00%	7/2024
Sand Dropseed, Variety Not Stated	3.61%	Oklahoma	95.21%	92.00%	5.00%	97.00%	10/2024
Gallardia Aristata, Variety Not Stated	3.61%	Oregon	89.09%	97.00%	0.00%	97.00%	6/2024
Blue Flax, Appar	3.60%	Washington	88.42%	97.00%	0.00%	97.00%	6/2024
Blackeyed Susan, Variety Not Stated	3.53%	Iowa	99.30%	89.00%	0.00%	99.00%	6/2024
Seed Total	65.39%						
Inert Matter:	34.54%						
Other Crop:	0.08%						
Weed Seed:	0.01%						

NMSLO Sandy Loam-1.8 AC Broadcasted.
 Based on 3.05 acre Bag into 3) 0.5 ac

curtis seed office, Clovis, NM 88101 (505) 762-4759

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 544307

QUESTIONS

Operator: CART HILL ENERGY, LLC 2724 NW County Road Hobbs, NM 88240	OGRID: 310548
	Action Number: 544307
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2329737108
Incident Name	NAPP2329737108 WEST MOUNT SPILL H @ 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	
<i>Please answer all the questions in this group.</i>	
Site Name	WEST MOUNT SPILL H
Date Release Discovered	09/21/2023
Surface Owner	State

Incident Details	
<i>Please answer all the questions in this group.</i>	
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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Flow Line - Production Produced Water Released: 33 BBL Recovered: 0 BBL Lost: 33 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.

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

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

QUESTIONS, Page 2

Action 544307

QUESTIONS (continued)

Operator: CART HILL ENERGY, LLC 2724 NW County Road Hobbs, NM 88240	OGRID: 310548
	Action Number: 544307
	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	<i>Not answered.</i>

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: 01/19/2026
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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, Page 3

Action 544307

QUESTIONS (continued)

Operator: CART HILL ENERGY, LLC 2724 NW County Road Hobbs, NM 88240	OGRID: 310548
	Action Number: 544307
	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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 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	Low
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
<i>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.</i>	
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)	20000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	20900
GRO+DRO (EPA SW-846 Method 8015M)	11100
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	08/06/2024
On what date will (or did) the final sampling or liner inspection occur	09/16/2024
On what date will (or was) the remediation complete(d)	09/13/2024
What is the estimated surface area (in square feet) that will be reclaimed	4906
What is the estimated volume (in cubic yards) that will be reclaimed	727
What is the estimated surface area (in square feet) that will be remediated	4906
What is the estimated volume (in cubic yards) that will be remediated	3700

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 544307

QUESTIONS (continued)

Operator: CART HILL ENERGY, LLC 2724 NW County Road Hobbs, NM 88240	OGRID: 310548
	Action Number: 544307
	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	FEEM0112338393 GANDY MARLEY LANDFARM/LANDFILL
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: 01/19/2026
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 544307

QUESTIONS (continued)

Operator: CART HILL ENERGY, LLC 2724 NW County Road Hobbs, NM 88240	OGRID: 310548
	Action Number: 544307
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 544307

QUESTIONS (continued)

Operator: CART HILL ENERGY, LLC 2724 NW County Road Hobbs, NM 88240	OGRID: 310548
	Action Number: 544307
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	383770
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/23/2024
What was the (estimated) number of samples that were to be gathered	40
What was the sampling surface area in square feet	4906

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	4906
What was the total volume (cubic yards) remediated	3700
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	4906
What was the total volume (in cubic yards) reclaimed	727
Summarize any additional remediation activities not included by answers (above)	SITE WAS CONTOURED, RIPPED, SEEDED WITH NMSLO SANDY LOAM. WATERED AND RERIPPED.

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: 01/19/2026
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QUESTIONS, Page 7

Action 544307

QUESTIONS (continued)

Operator: CART HILL ENERGY, LLC 2724 NW County Road Hobbs, NM 88240	OGRID: 310548
	Action Number: 544307
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	4906
What was the total volume of replacement material (in cubic yards) for this site	4312
<i>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.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	01/14/2025
Summarize any additional reclamation activities not included by answers (above)	ALL IS IN THE REPORT
<i>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 reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. 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: 01/19/2026

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Action 544307

QUESTIONS (continued)

Operator: CART HILL ENERGY, LLC 2724 NW County Road Hobbs, NM 88240	OGRID: 310548
	Action Number: 544307
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>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.</i>	

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CONDITIONS

Action 544307

CONDITIONS

Operator: CART HILL ENERGY, LLC 2724 NW County Road Hobbs, NM 88240	OGRID: 310548
	Action Number: 544307
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your reclamation/remediation closure report for Incident #NAPP2329737108 WEST MOUNT SPILL H, thank you. The reclamation/remediation closure report is approved.	2/9/2026