JACKSON UNIT #029H
CLOSURE REQUEST

API NO. 30-025-41767
Unit Letter O, Section 21, Township 24S, Range 33E
LEA COUNTY, NEW MEXICO

DATE OF RELEASE: 08/04/2023
INCIDENT NO. NAPP2322234733

05/30/2024
Prepared by:

2724 NW COUNTY ROAD
HOBBS, NM 88240

May 30, 2024

New Mexico Energy, Mineral & Natural Resources
NMOCD District II
C/O Mike Bratcher, Robert Hamlet, Jennifer Naribu, & Jocelyn Harimon
811 S. First Street
Artesia, NM 88210

New Mexico State Land Office
Water Bureau Manager Faith Crosby
1001 South Atkinson Ave
Roswell, NM 88203

Tap Rock Operating, LLC
C/O Bill Ramsey
523 Park Point Drive
Golden, CO 80401

Subject: Closure Request for Tap Rock Operating – Jackson Unit #029H

API No. 30-025-41767
Incident No. NAPP2322234733
Legal Unit Letter O, Section 21, Township 24 South, Range 33 East
Lea County, New Mexico

To Whom it May Concern:

Tap Rock Operating, LLC retained Energy Staffing Services, LLC (ESS) to conduct a spill assessment for the Jackson Unit #029H (hereafter referred to as the "Jackson 29H") for the produced water release that occurred on August 4th, 2023. On the same day, ESS provided the immediate notification of the release to the *New Mexico Oil Conservation Division (NMOCD), Division II Office* and the *New Mexico State Land Office (SLO)* via email at 1:52 PM. (Notification Attached). On behalf of Tap Rock, ESS also submitted the initial C141 Release Notification, along with the spill calculator used to determine the volume of the release (attached) on August 10th, 2023. The NMOCD accepted the C141 as record on the same said date. The incident number assigned to the release is NAPP2322234733. (Notification of correspondence is attached).

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

Incident Description

On August 4th, 2023, it was discovered that a leak had surfaced on the well pad of the Jackson 29H. Upon further inspection, it was discovered that a buried line had begun to leak due to corrosion. The line was immediately shut-in when the fluid was discovered.

Upon notification of the release, ESS was dispatched to location to conduct a full environmental assessment of the produced water release. It was determined, after measuring the area of impact, that approximately 22.92 barrels, with no fluid able to be recovered, of produced water had been released onto the well pad of the Jackson 29H. Initial site photos and measuring of the impacted area were conducted. Please see the initial site photos attached.

Site Characterization

The release of the Jackson 29H occurred on State Land and is located at 32.19642 latitude and -103.574113 longitude, 25.6 miles northwest of Jal, New Mexico. The legal description of the site is Unit Letter O, Section 21, Township 24 South, Range 33 East. This site is located in Lea County, New Mexico. Please see the site schematic attached.

The Jackson 29H consists of production lines and is near production facilities and well pads. The area of the release occurred under the well pad of the Jackson 29H. The elevation is 3,537 feet. The area is historically or has been primarily dominated by black grama, dropseed, little bluestem, bush muhly, and other perennial grasses and shrubs. Please find the attached Rangeland and Vegetation Classification information attached.

The *United States Department of Agriculture Natural Resources Conservation Services* indicates that the soil type in the area of the Jackson 29H consists of 94.7% Pyote and Maljamar fine sand and 5.3% Berino-Cacique association sands. (Soil Map Attached). In the area of the Jackson 29H, the *FEMA National Flood Hazard Layer* indicates that there is 0.2% chance of a flood hazard with a 1% chance of flood with an average depth of one foot or with drainage areas of less than one square mile. (See Map Attached).

There is “low potential” for Karst Geology to be present near the Jackson 29H site, according to the *United States Department of the Interior, Bureau of Land Management*. Please find the Karst Map attached herein.

There is no surface water located near or around the Jackson 29H. The site is not near a continuously flowing watercourse and or lakebed within ½ a mile from the release. No other critical or community features were found at the Jackson 29H site. (Attached Watercourse Map).

The nearest and most recent water well to site according to the *New Mexico Office of the State Engineer* is C04708 POD1, drilled in 2023 with a well depth of 100 feet and no groundwater data available. This well is located 300 yards from the site. The second well is C04339 POD1, drilled in 2019 with a well depth of 47 feet and no groundwater data available, 2,134 yards from the site.

The third well is C04339 POD8, drilled in 2019 with a well depth of 30 feet and no groundwater data available. This well is located 2,196 yards from the site. The fourth well is C04339 POD7, drilled in 2019 with a well depth of 43 feet and no groundwater data available, 2,264 yards from the site. The fifth well is C03600 POD4, drilled in 2013 with no available well depth or groundwater data. This well is located 2,357 yards from the site. An extended groundwater search was conducted using the *OSE POD Location Mapping System* and it has been determined that the well C04708 POD1 was found within a ½ mile radius of the Jackson 29H release. Please find the NMOSE, OSE POD, and the groundwater map attached to this report.

Closure Criteria Determination

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

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

Soil Remediation Action Levels

ESS has provided sufficient data that this release has impacted the soil at the Jackson 29H release site and that the protocol is consistent with the remediation/abatement goals and objectives set forth in the *NMOCD Closure Criteria for Soils Impacted by a Release, dated August 14, 2018.* This document provides direction for Tap Rock's initial response actions, site assessment and sample procedures conducted by ESS Staff. We would like to present to you the following information concerning the delineation process for the release detailed herein.

Soil Sampling Procedures

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

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

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

Volatile Organics by EPA 8021B
- Benzene, Toluene, Ethylbenzene, p.m. Xylene, o-Xylene and Total Xylenes

Nonhalogenated Organics by EPA 8015D – GRO
- Gasoline Range Organics (C6-C10)

Nonhalogenated Organics by EPA 8015D – DRO/ORO
- Diesel Range Organics (C10-C28)
- Oil Range Organics (C28-C40)

Anions by EPA 300.0/9056A
- Chloride

Release Investigation Data

On August 16th, 2023, ESS arrived on site of the Jackson 29H, set delineation sample points, GPS'd each sample point, and began to obtain surface samples. Each surface sample was field tested, logged, and submitted to Envirotech Laboratory for confirmation.

On October 24th, 2023, a 60-day extension was requested to the NMOCD on behalf of Tap Rock and ESS for the delineation and remediation phases on the Jackson 29H. (Please see email attached).

On October 25th, 2023, the NMOCD approved the 60-day extension request until January 2nd, 2024. (Please see email correspondence attached).

A total of 8 vertical sample points were placed along with 7 horizontal sample points. Each sample point was then sampled by use of hand auger, backhoe, and trackhoe in 1' and 2' intervals. Bottom hole samples were then submitted to the lab for confirmation. Please see the delineation sample data below, with the lab data indicated in yellow. Attached to this report you will find the sample data, delineation sample map, and the lab analysis.

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
SP1	SURF	2560	H	7.39	178	33000	13800	46800	480
	1	240							
	2	240							
	3	320							
	4	240							
	5	240	L	ND	ND	ND	ND	ND	226
SP2	SURF	720	H	3.38	118	16400	7390	23790	3270

	1	160							
	2	160	L	ND	ND	ND	ND	ND	68.5
SP3	SURF	80	H	31.5	632	56400	21800	78200	74.8
	1	160							
	2	240							
	3	80							
	4	80							
	6	160							
	8	80	L	ND	ND	ND	ND	ND	ND
SP4	SURF	80	H	2.34	62.9	18200	9680	27880	60.7
	4	320							
	6	160							
	8	160	L	ND	ND	ND	ND	ND	ND
SP5	SURF	480	H	5.03	219	29900	13000	42900	495
	2	320							
	4	240							
	6	240							
	8	240	L	ND	ND	ND	ND	ND	194
SP6	SURF	480	H	7.34	229	29600	11100	40700	622
	2	80							
	4	80	L	ND	ND	ND	ND	ND	27.2
SP7	SURF	1320	H	2.02	ND	26400	11400	37800	1230
	2	240							
	4	80	L	ND	ND	ND	ND	ND	28.3
SP8	SURF	2160	H	3.19	125	36500	14800	51300	2320
	2	320							
	4	320							
	6	240							
	8	160	L	ND	ND	ND	ND	ND	ND
SW1	SURF	2080	H	2.69	143	16500	7420	23920	2400
	1	560							
	2	240							
	3	240	L	ND	ND	ND	ND	ND	248

SW2	SURF	2720	H	2.98	107	22000	10500	32500	3460
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND
SW3	SURF	80	H	7.19	223	34600	16900	51500	59.5
	1	240							
	2	240	L	ND	ND	ND	ND	ND	222
SW4	SURF	80	H	7.37	240	21400	11000	32400	32.9
	1	640							
	2	560							
	3	240							
	4	240	L	ND	ND	ND	ND	ND	229
SW5	SURF	480	H	6.5	216	32500	14600	47100	547
	1	880							
	2	800							
	3	560							
	4	240							
	5	160							
	6	160	L	ND	ND	ND	ND	ND	ND
SW6	SURF	80	H	4.68	190	25700	11500	37200	53.6
	1	240							
	2	240	L	ND	ND	ND	ND	ND	224
SW7	SURF	>4000	H	1.06	ND	14600	6580	21180	6580
	1	160							
	2	160	L	ND	ND	ND	ND	ND	ND

Please see the delineation photos attached herein.

On December 20th, 2024, a second extension was requested to the NMOCD on behalf of Tap Rock and ESS for the remediation phase of the Jackson 29H. (Please see email attached).

On January 2nd, 2024, ESS crews began to obtain 200 square foot composites from the excavation area. A total of 11 bottom hole composites were obtained, field tested, and submitted to the lab for confirmation. Please find the composite sample data below as well as attached to this report followed by the lab confirmation data.

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
SPCOMP1	2	160	L	ND	ND	30.4	ND	30.4	225
SPCOMP2	2	240	L	ND	ND	ND	ND	ND	ND
SPCOMP3	6	240	L	ND	ND	34.4	ND	34.4	212
SPCOMP4	6	160	L	ND	ND	28.9	ND	28.9	210
SPCOMP5	6	240	L	ND	ND	ND	ND	ND	ND
SWCOMP1	2	240	L	ND	ND	ND	ND	ND	ND
SWCOMP2	2	160	L	ND	ND	ND	ND	ND	223
SWCOMP3	2	160	L	ND	ND	ND	ND	ND	ND
SWCOMP4	6	240	L	ND	ND	ND	ND	ND	ND
SWCOMP5	6	160	L	ND	ND	ND	ND	ND	213
SWCOMP6	2	240	L	ND	ND	ND	ND	ND	208

The impacted area of the Jackson 29H measured 2,000 square feet. During the remediation phase, a total of 132 cubic yards of contaminated soil was excavated and hauled to the Owl Disposal. A total of 120 cubic yards of caliche and 48 cubic yards of topsoil was pushed up and hauled from the NGL Bonnano Pit to location for backfill. The backfill material was staged on the production pad of the Jackson 29H and then transferred to the impacted area where backfilling took place. The site was contoured and sloped back to its natural grade. Backfilling was completed on the Jackson 29H on January 29th, 2024.

Please find the remediation and final photos attached herein.

Closure Request

On behalf of Tap Rock, Energy Staffing Services, LLC requests that the incident (NAPP2322234733) be closed for the produced water leak that occurred on the pad of the Jackson Unit #029H. Tap Rock and ESS certify that all information provided and that is detailed in this report to be true and correct. Both Tap Rock and ESS have complied with all applicable closure requirements for the release that occurred on the Jackson Unit #029H.

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

Sincerely,

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
Surface Water Map
Groundwater Information
Groundwater Map
OSE POD Map
Delineation Extension Request
Delineation Sample Data
Delineation Sample Map and GPS Log
Lab Analysis for Delineation
Delineation Site Photos
Composite Extension Request
Composite Notification
Composite Sample Data and GPS Log
Composite Sample Map
Lab analysis for Remediation
Excavation Site Photos
Remediation and Final Photos
Final C141

New Mexico State Land Office
nmstatelands.org

From: Natalie Gladden <natalie@energystaffingllc.com>
Sent: Friday, August 4, 2023 1:52 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; ocdonline, emnrd, EMNRD <EMNRD.OCDOnline@state.nm.us>; SLO Spills <spills@slo.state.nm.us>
Cc: 'Bill Ramsey' <Bramsey@taprk.com>; Christian Combs <ccombs@taprk.com>; Brittney Corral <brittney@energystaffingllc.com>
Subject: [EXTERNAL] TAPROCK - JACKSON UNIT #29H - RELEASE NOTIFICATION
Importance: High

All,

A leak was found on the pad of the Jackson Unit #29H today, due to corrosion on a buried line. Please find the information below:

LOCATION NAME: JACKSON UNIT #29H
API NO. 30-025-41767
LEGALS: U/L O, SECTION 21, TOWNSHIP 24S AND RANGE 33E
COUNTY: LEA
RELEASED: 22.92BBLS
RECOVERED: 0BBLS
FLUID TYPE: PRODUCED WATER

A C141 will be filed, uploaded, and sent out shortly.

Sincerely,

Natalie Gladden
Director of Environmental and Regulatory Services
Energy Staffing Services, LLC.
2724 NW County Road
Hobbs, NM 88240
Cell: 575-390-6397
Office: 575-393-9048

Email: natalie@energystaffingllc.com

Natalie Gladden

From: OCDOnline@state.nm.us
Sent: Thursday, August 10, 2023 9:39 AM
To: Natalie Gladden
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 250517

To whom it may concern (c/o Natalie Gladden for TAP ROCK OPERATING, LLC),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2322234733,
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 nAPP2322234733, on all subsequent C-141 submissions and communications regarding the remediation of this release.
NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.
If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

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

Natalie Gladden

From: SLO Spills <spills@slo.state.nm.us>
Sent: Monday, August 7, 2023 10:58 AM
To: Natalie Gladden
Subject: RE: TAPROCK - JACKSON UNIT #29H - RELEASE NOTIFICATION

This letter is to confirm that a release notification was received from your office on August 4, 2023. The NMSLO Environmental Compliance Office (ECO) has reviewed the records submitted regarding the subject release. No additional information regarding the subject release is required at this time. Once the release is stopped and contained, your cooperation in completing the subsequent remediation tasks is appreciated:

Cultural Properties Protection Rule (CPP)
For releases that impact State Trust Land surface beyond previously disturbed areas, responsible parties must comply with the CPP Rule prior to proceeding with any earth disturbance activities. The NMSLO Cultural Resources Office (CRO) is always willing to provide recommendations and facilitate project planning. To request planning assistance please email croinfo@slo.state.nm.us or call 505-827-5781. To learn more about the CPP Rule visit: nmstatelands.org/divisions/cultural-resources-office/culturalproperties.

90-Day Remediation and Closure

For releases that are remediated and are closed within 90 days of the discovery date, a written notification of the confirmation sampling event must be submitted to ECO a minimum of two business days from the sampling event. Please submit notifications to eco@slo.state.nm.us with the subject line as follows: (Document Description) Location Name (Incident #) Date of Release. As an example: *(Sampling Notification) Springsteen A State 001 (NAPP0123456789) 06-01-2022.*

The subsequent remediation closure report must be submitted to ECO for review and approval. Please submit the closure report to eco@slo.state.nm.us with the subject line *(Closure Report Submittal) Location Name (Incident #) Date of Release*.

Extended Remediation and Closure

For remediation actions that cannot be completed and closed within 90 days of the discovery date, a written remediation plan must be submitted to ECO for review and approval. Please submit the workplan to eco@slo.state.nm.us with the subject line *(Remediation Plan Submittal) Location Name (Incident #) Date of Release*.

Reclamation

Sites that are remediated and being prepared for reclamation must have a written reclamation plan submitted to ECO for review and approval. Note, it is acceptable to combine the remediation and reclamation plan into one document for ECO approval. If the document is a standalone reclamation plan, please submit the plan to eco@slo.state.nm.us with the subject line *(Reclamation Plan Submittal) Location Name (Incident #) Date of Release*.

Thank you,

Environmental Compliance Office
Surface Division

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 **TAP ROCK OPERATING**	OGRID **372043**
Contact Name **CHRISTIAN COMBS**	Contact Telephone **(720) 360-4028**
Contact email **ccombs@taprk.com**	Incident # *(assigned by OCD)*
Contact mailing address **523 Park Point Drive #200, Golden CO, 80401**	

Location of Release Source

Latitude **32.19642** Longitude **-103.574113**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name **JACKSON UNIT #029H**	Site Type **PRODUCTION**
Date Release Discovered **8/4/2023**	API# *(if applicable)* ***30-025-41767***

Unit Letter	Section	Township	Range	County
O	**21**	**24S**	**33E**	**LEA**

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 22.92**BBLS**	Volume Recovered (bbls) **0BBLS**
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
Buried line leaked due to corrosion. No fluid was recovered due to the leak was found upon surfacing. All fluid remained on the well pad.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? **Email sent to NMOCD and the SLO on 8/4/23 1:51pm, by Natalie Gladden w/ESS.**	

Initial Response

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

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

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

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

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

Printed Name: **Natalie Gladden** Title: **Director of Environmental and Regulatory**

Signature: Natalie Gladden Date: 8/10/23

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

OCD Only

Received by: _____ Date: _____

Soil Type	Porosity	Length	Width	Depth (.083 per inch)	Cubic Feet	Estimated Barrels	Soil Type
Clay	0.15	10	10	0.083	8.3	0.22	Clay
Peat	0.40	10	10	0.083	8.3	0.59	Peat
Glacial Sediments	0.13	10	10	0.083	8.3	0.19	Glacial Sediments
Sandy Clay	0.12	10	10	0.083	8.3	0.18	Sandy Clay
Silt	0.16	10	10	0.083	8.3	0.24	Silt
Loess	0.25	10	10	0.083	8.3	0.37	Loess
Fine Sand	0.16	10	10	0.083	8.3	0.24	Fine Sand
Medium Sand	0.25	10	10	0.083	8.3	0.37	Medium Sand
Coarse Sand	0.26	10	10	0.083	8.3	0.38	Coarse Sand
Gravely Sand	0.26	10	10	0.083	8.3	0.38	Gravely Sand
Fine Gravel	0.26	10	10	0.083	8.3	0.38	Fine Gravel
Medium Gravel	0.20	36.76	19.16	0.913	643.04562	22.92	Medium Gravel
Coarse Gravel	0.18	0	0	0	0	0.00	Coarse Gravel
Sandstone	0.25	10	10	0.083	8.3	0.37	Sandstone
Siltstone	0.18	10	10	0.083	8.3	0.27	Siltstone
Shale	0.05	10	10	0.083	8.3	0.07	Shale
Limestone	0.13	10	10	0.083	8.3	0.19	Limestone
Basalt	0.19	10	10	0.083	8.3	0.28	Basalt
Volcanic Tuff	0.20	10	10	0.083	8.3	0.30	Volcanic Tuff
Standing Liquids	X	10	10	0.083	8.3	1.48	Standing Liquids

1	*2*	*3*	*4*	*5*	*6*
0.083	**0.166**	**0.250**	**0.332**	**0.415**	**0.500**
7	*8*	*9*	*10*	*11*	*12*
0.581	**0.664**	**0.750**	**0.830**	**0.913**	**1.000**

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

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

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

Cubic Feet = L x W x D

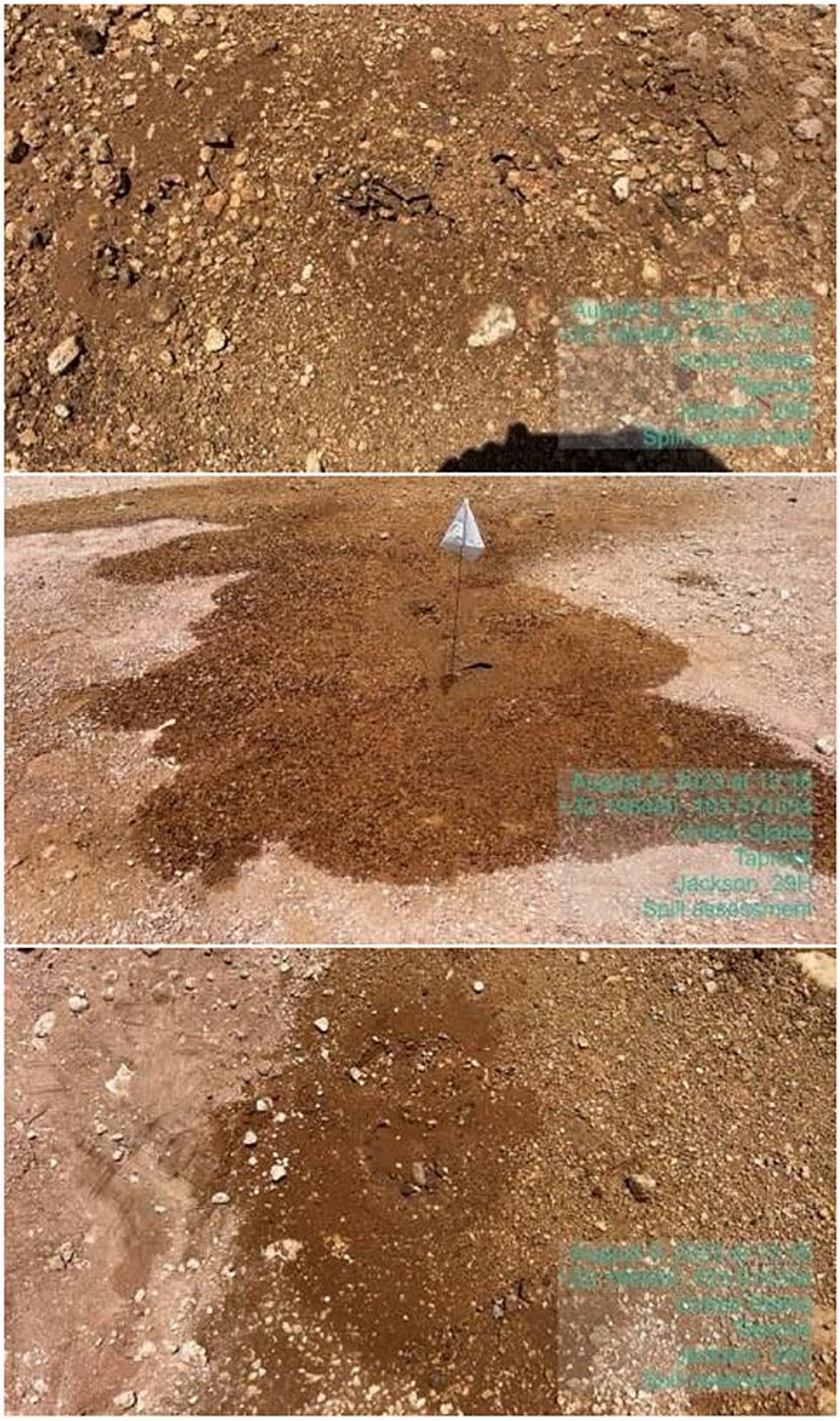
Estimated Barrels = ((Cubic Feet x Porosity) / 5.61)

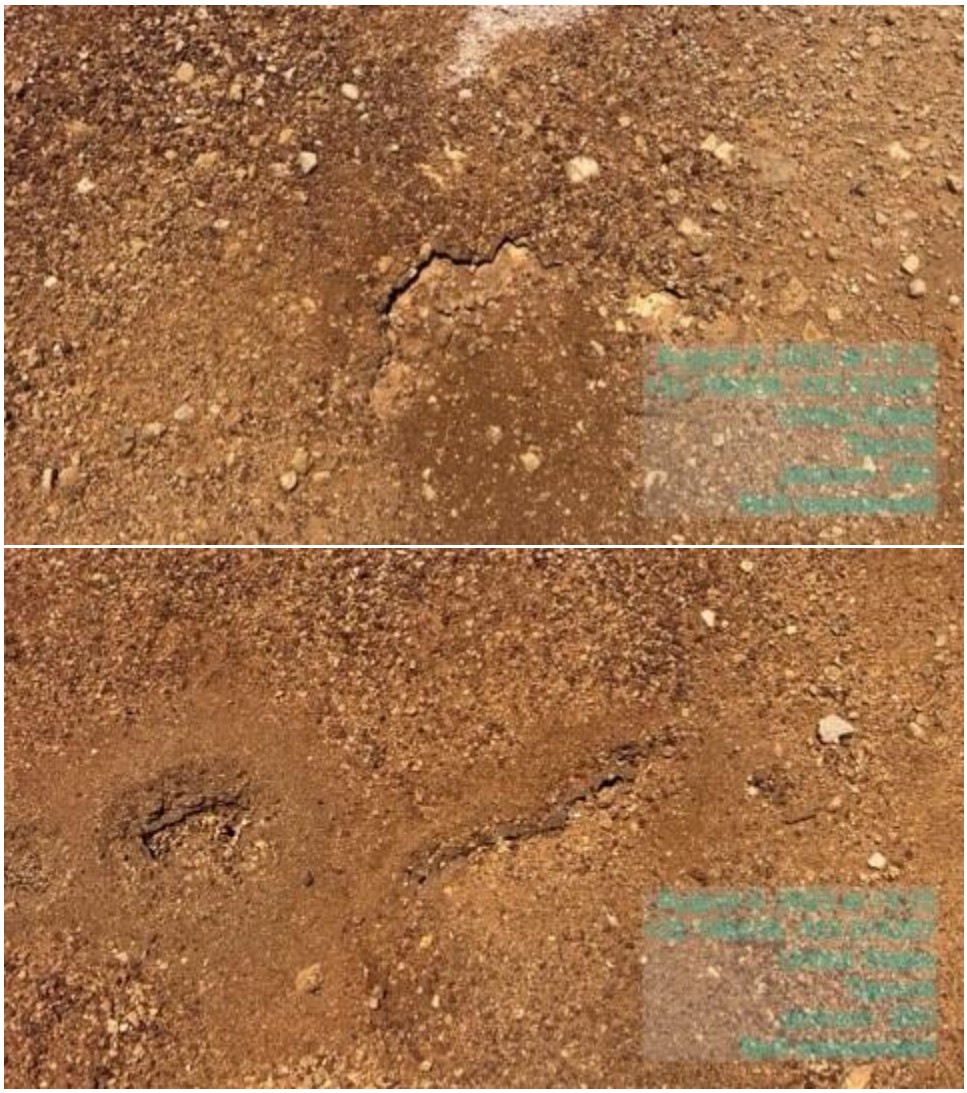
TAPROCK

JACKSON UNIT 29
IMPACT MAP

JACKSON UNIT #029H

INTIAL SITE PHOTOS





TAP ROCK

JACKSON UNIT #029H
SITE MAP

Legend

JACKSON UNIT 29H

JACKSON UNIT 29H

2

N

800 ft

Google Earth

Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition

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

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

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

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

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

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

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

Reference:

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

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

Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition–Lea County, New Mexico								
Map unit symbol and soil name	Ecological Site, Plant Association, or Habitat Type	Total dry-weight production			Characteristic rangeland or forest understory vegetation	Composition		
		Favorable year	Normal year	Unfavorable year			Rangeland	Forest understory
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct dry wt*	*Pct dry wt*	
BH—Berino-Cacique association, hummocky								
Berino	Loamy Sand (R070BD003NM)	650	—	225	black grama	25		
					dropseed	15		
					other perennial grasses	15		
					bush muhly	10		
					annual grasses	5		
					cane bluestem	5		
					other shrubs	5		
					other annual forbs	5		
					other perennial forbs	5		
					soaptree yucca	5		
					threeawn	5		
Cacique	Sandy (R070BD004NM)	650	—	225	black grama	25		
					dropseed	15		
					other perennial grasses	15		
					bush muhly	10		
					annual grasses	5		
					cane bluestem	5		
					other shrubs	5		
					other annual forbs	5		
					other perennial forbs	5		
					threeawn	5		
					yucca	5		

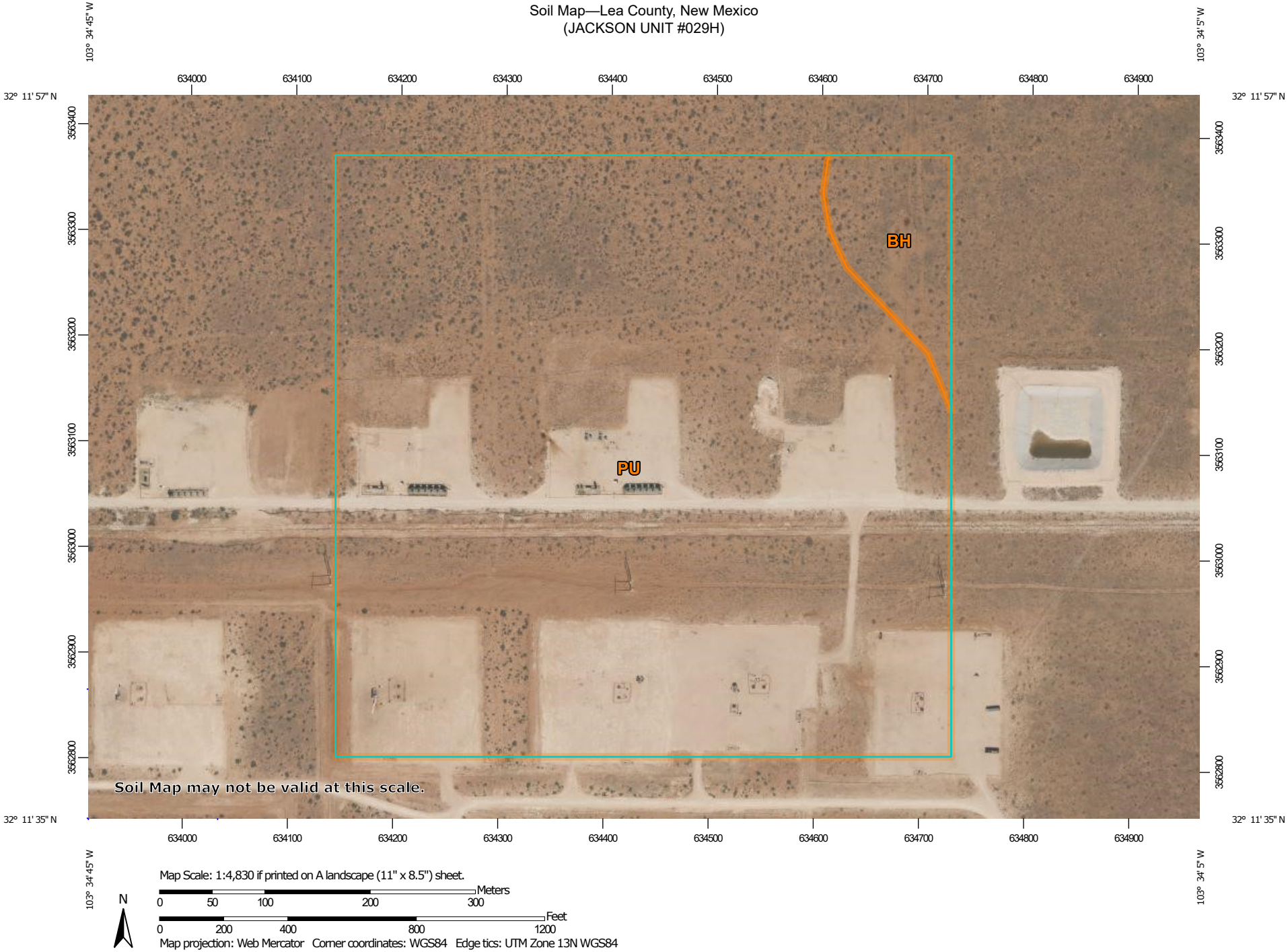
Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition–Lea County, New Mexico								
Map unit symbol and soil name	Ecological Site, Plant Association, or Habitat Type	Total dry-weight production			Characteristic rangeland or forest understory vegetation	Composition		
		Favorable year	Normal year	Unfavorable year			Rangeland	Forest understory
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct dry wt*	*Pct dry wt*	
PU—Pyote and Maljamar fine sands								

Rangeland and Forest Vegetation Classification, Productivity, and Plant Composition–Lea County, New Mexico								
Map unit symbol and soil name	Ecological Site, Plant Association, or Habitat Type	Total dry-weight production			Characteristic rangeland or forest understory vegetation	Composition		
		Favorable year	Normal year	Unfavorable year			Rangeland	Forest understory
		Lb/ac	*Lb/ac*	*Lb/ac*		*Pct dry wt*	*Pct dry wt*	
Pyote	Loamy Sand (R070BD003NM)	2,000	1,500	1,000	little bluestem	10		
					other shrubs	10		
					other perennial forbs	10		
					sand bluestem	10		
					spike dropseed	10		
					Arizona cottontop	5		
					black grama	5		
					bush muhly	5		
					cane bluestem	5		
					giant dropseed	5		
					hooded windmill grass	5		
					mesa dropseed	5		
					other perennial grasses	5		
					plains bristlegrass	5		
					sand dropseed	5		
Maljamar	Loamy Sand (R070BD003NM)	1,800	—	650	black grama	15		
					other perennial forbs	15		
					dropseed	10		
					little bluestem	10		
					other perennial grasses	10		
					plains bristlegrass	10		
					bush muhly	5		
					cane bluestem	5		
					fall witchgrass	5		
					Havard's oak	5		
					other shrubs	5		
					sand sagebrush	5		

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

Soil Map—Lea County, New Mexico
(JACKSON UNIT #029H)



Map Scale: 1:4,830 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 50 100 200 300

Feet
0 200 400 800 1200

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

Soil Map—Lea County, New Mexico
(JACKSON UNIT #029H)

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 1:20,000.

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: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

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.

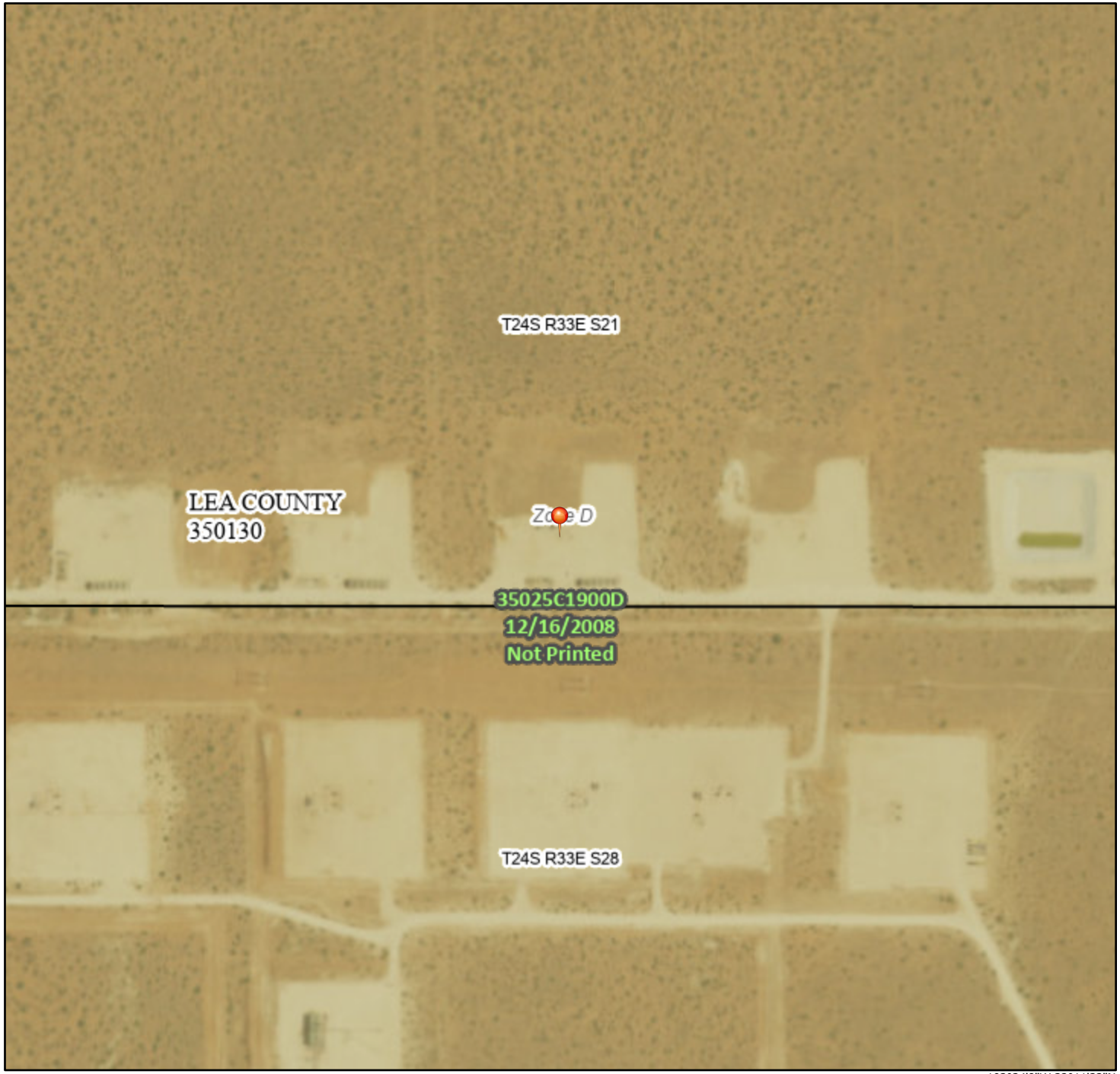
Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BH	Berino-Cacique association, hummocky	4.4	5.3%
PU	Pyote and Maljamar fine sands	78.3	94.7%
Totals for Area of Interest		**82.7**	**100.0%**

National Flood Hazard Layer FIRMette

FEMA

103°34'46"W 32°12'2"N



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

1:6,000

103°34'8"W 32°11'32"N

Basemap Imagery Source: USGS National Map 2023

Legend

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

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

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

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

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

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

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

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/31/2024 at 3:32 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

TAPROCK
JACKSON UNIT #029H

TAP ROCK

JACKSON UNIT #029H
WATERCOURSE MAP

Legend

JACKSON UNIT 29H

JACKSON UNIT 29H

Hearns pit

128

2

N

3000 ft

Google Earth

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

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

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	POD Sub-basin Code	County	Source	q 6416	q 4	q	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
C 04708 POD1	CUB	LE		1	3	4	21	24S	33E	634149	3563262	300	03/23/2023	03/27/2023	06/23/2023	100		JOE SKAGGS	1453

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 634400.78 **Northing (Y):** 3563098.8 **Radius:** 1000

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.)

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POD Number	POD Sub-basin Code	County	Source	q 6416	q 4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
C 04708 POD1	CUB	LE		1 3	4	21	24S	33E	634149	3563262	300	03/23/2023	03/27/2023	06/23/2023	100		JOE SKAGGS	1453
C 04339 POD1	CUB	LE		1 3	3	23	24S	33E	636525	3563309	2134	08/01/2019	08/02/2019	08/22/2019	47		CURRIE, SHANEG..TY" ENER	1575
C 04339 POD8	CUB	LE		1 1	3	23	24S	33E	636519	3563681	2196	07/31/2019	07/31/2019	08/22/2019	30		CURRIE, SHANEG..TY" ENER	1575
C 04339 POD7	CUB	LE		4 4	2	23	24S	33E	636473	3564011	2264	07/31/2019	07/31/2019	08/22/2019	43		CURRIE, SHANEG..TY" ENER	1575
C 03600 POD4	CUB	LE	Shallow	3 3	1	26	24S	33E	636617	3562293	2357	01/08/2013	01/08/2013	01/30/2013			RODNEY HAMMER	1186
C 04339 POD2	CUB	LE		2 3	3	23	24S	33E	636789	3563315	2398	08/06/2019	08/06/2019	08/22/2019			CURRIE, SHANEG..TY" ENER	1575
C 03600 POD7	CUB	LE	Shallow	3 1	3	26	24S	33E	636726	3561968	2585	01/08/2013	01/09/2013	01/30/2013			RODNEY HAMMER	1186
C 03565 POD8	CUB	LE			4 1	15	24S	33E	635485	3565610	2735			04/02/2013				
C 03565 POD9	CUB	LE			4 4	15	24S	33E	636430	3565005	2784			04/02/2013				
C 03600 POD1	CUB	LE	Shallow	2 2	1	26	24S	33E	637275	3563023	2875	01/07/2013	01/07/2013	01/30/2013			RODNEY HAMMER	1186
C 04339 POD3	CUB	LE		2 4	3	23	24S	33E	637273	3563323	2881	08/06/2019	08/06/2019	08/22/2019	38		CURRIE, SHANEG..TY" ENER	1575
C 04339 POD4	CUB	LE		2 4	3	23	24S	33E	637273	3563323	2881	08/06/2019	08/07/2019	08/22/2019	47		CURRIE, SHANEG..TY" ENER	1575
C 04824 POD1	CUB	LE		1 1	2	16	24S	33E	634113	3566203	3118	04/16/2024	04/16/2024	04/25/2024	105		JASON MALEY	1833
C 03600 POD6	CUB	LE	Shallow	3 1	4	26	24S	33E	637383	3562026	3168	01/09/2013	01/09/2013	01/30/2013			RODNEY HAMMER	1186
C 04339 POD5	CUB	LE		2 3	4	23	24S	33E	637580	3563328	3187	08/06/2019	08/07/2019	08/22/2019	54		CURRIE, SHANEG..TY" ENER	1575
C 03603 POD3	CUB	LE	Shallow	4 1	1	35	24S	33E	636890	3561092	3196	01/13/2013	01/13/2013	01/30/2013			RODNEY HAMMER	1186

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

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	POD Sub-basin Code	County	Source	q 6416	q	q 4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
C 04339 POD6	CUB	LE		3	1	2	23	24S	33E	637340	3564386	3209	07/31/2019	07/31/2019	08/22/2019	60		CURRIE, SHANEG..TY" ENER	1575
C 03662 POD1	C	LE	Shallow	3	1	2	23	24S	33E	637342	3564428	3227	08/19/2013	08/20/2013	09/16/2013	550	110	JOHN SIRMAN	1654
C 03603 POD5	CUB	LE	Shallow	3	3	2	35	24S	33E	636745	3560767	3306	01/12/2013	01/13/2013	01/30/2013			RODNEY HAMMER	1186
C 04339 POD10	CUB	LE		4	1	4	23	24S	33E	637688	3563503	3311	08/01/2019	08/01/2019	08/22/2019	49		CURRIE, SHANEG..TY" ENER	1575
C 04768 POD1	CUB	LE		3	3	4	19	24S	33E	631048	3563110	3353	12/13/2023	12/13/2023	01/12/2024	55		JASON MALEY	1833
C 04339 POD9	CUB	LE		3	4	2	23	24S	33E	637731	3563913	3428	08/01/2019	08/01/2019	08/22/2019	45		CURRIE, SHANEG..TY" ENER	1575
C 03601 POD6	CUB	LE	Shallow	1	4	4	23	24S	33E	637834	3563338	3441	01/05/2013	01/05/2013	01/30/2013			RODNEY HAMMER	1186
C 03600 POD3	CUB	LE	Shallow	3	4	2	26	24S	33E	637784	3562340	3467	01/16/2013	01/16/2013	01/30/2013			RODNEY HAMMER	1186
C 03601 POD2	CUB	LE	Shallow	3	2	4	23	24S	33E	637846	3563588	3479	01/06/2013	01/07/2013	01/30/2013			RODNEY HAMMER	1186
C 03603 POD6	CUB	LE	Shallow	3	1	3	35	24S	33E	636749	3560447	3542	01/13/2013	01/13/2013	01/30/2013			RODNEY HAMMER	1186
C 03601 POD7	CUB	LE	Shallow	4	4	4	23	24S	33E	637946	3563170	3546	01/05/2013	01/05/2013	01/30/2013			RODNEY HAMMER	1186
C 03603 POD2	CUB	LE	Shallow	3	1	2	35	24S	33E	637384	3561167	3553	01/11/2013	01/11/2013	01/30/2013			RODNEY HAMMER	1186
C 03601 POD5	CUB	LE	Shallow	2	4	4	23	24S	33E	637988	3563334	3595	01/06/2013	01/06/2013	01/30/2013			RODNEY HAMMER	1186
C 03600 POD5	CUB	LE	Shallow	3	2	4	26	24S	33E	637857	3562020	3620	01/09/2013	01/09/2013	01/30/2013			RODNEY HAMMER	1186
C 03601 POD3	CUB	LE	Shallow	1	3	3	24	24S	33E	638142	3563413	3754	01/06/2013	01/06/2013	01/30/2013			RODNEY HAMMER	1186
C 03601 POD1	CUB	LE	Shallow	4	4	2	23	24S	33E	638124	3563937	3816	12/21/2012	12/21/2012	01/08/2013			RODNEY HAMMER	1186
C 03565 POD3	CUB	LE			3	4	08	24S	33E	632763	3566546	3817	09/27/2012	10/21/2012	12/11/2012		1533	STEWART, PHILLIP D. (LD)	331
C 03603 POD1	CUB	LE	Shallow	3	2	2	35	24S	33E	637805	3561225	3885	01/10/2013	01/10/2013	01/30/2013			RODNEY HAMMER	1186
C 03601 POD4	CUB	LE	Shallow	3	3	3	24	24S	33E	638162	3561375	4137	01/03/2013	01/04/2013	01/30/2013			RODNEY HAMMER	1186
C 04741 POD1	CUB	LE		1	2	4	10	24S	33E	636076	3567039	4282	05/08/2023	05/11/2023	06/15/2023	55		JOHN W WHITE	1456

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

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	POD Sub-basin Code	County	Source	q 6416	q 4	q	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
C 03603 POD4	CUB	LE	Shallow	3	2	4	35	24S	33E	637789	3560461	4293	01/14/2013	01/14/2013	01/30/2013			RODNEY HAMMER	1186
C 03600 POD2	CUB	LE	Shallow	4	4	1	25	24S	33E	638824	3562329	4490	01/07/2013	01/08/2013	01/30/2013			RODNEY HAMMER	1186
C 03602 POD2	CUB	LE	Shallow	4	4	1	25	24S	33E	638824	3562329	4490	01/15/2013	01/15/2013	01/30/2013			RODNEY HAMMER	1186
C 03917 POD1	C	LE	Shallow	4	1	3	13	24S	33E	638374	3565212	4500	03/01/2016	03/04/2016	03/11/2016	600	420	CASE KEY	1058
C 04622 POD1	CUB	LE		3	3	4	24	24S	32E	629436	3563006	4965	06/07/2022	06/07/2022	06/16/2022			JACKIE ATKINS	1249

Record Count: 41

UTMNAD83 Radius Search (in meters):

Easting (X): 634400.78 **Northing (Y):** 3563098.8 **Radius:** 5000

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
NA	C 04708 POD1	1	3	4	21	24S	33E	634149	3563262

Driller License:	1453	**Driller Company:**	HYDROTECH DRILLING		
Driller Name:	JOE SKAGGS				
Drill Start Date:	03/23/2023	**Drill Finish Date:**	03/27/2023	**Plug Date:**	
Log File Date:	06/23/2023	**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	3.00	**Depth Well:**	100 feet	**Depth Water:**	

Casing Perforations:	Top	Bottom
	80	100

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
NA	C 04339 POD1	1	3	3	23	24S	33E	636525	3563309

Driller License: 1575 **Driller Company:** CURRIE DRILLING COMPANY, INC

Driller Name: CURRIE, SHANEG..TY"ENER

Drill Start Date:	08/01/2019	**Drill Finish Date:**	08/02/2019	**Plug Date:**	08/02/2019
Log File Date:	08/22/2019	**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	47 feet	**Depth Water:**	

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	Twn	Rng	X	Y
NA	C 04339 POD8	1	1	3	23	24S	33E	636519	3563681

Driller License: 1575 **Driller Company:** CURRIE DRILLING COMPANY, INC

Driller Name: CURRIE, SHANEG..TY"ENER

Drill Start Date:	07/31/2019	**Drill Finish Date:**	07/31/2019	**Plug Date:**	07/31/2019
Log File Date:	08/22/2019	**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	30 feet	**Depth Water:**	

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
NA	C 04339 POD7	4	4	2	23	24S	33E	636473	3564011

Driller License: 1575 **Driller Company:** CURRIE DRILLING COMPANY, INC

Driller Name: CURRIE, SHANEG..TY"ENER

Drill Start Date: 07/31/2019 **Drill Finish Date:** 07/31/2019 **Plug Date:** 07/31/2019

Log File Date: 08/22/2019 **PCW Rcv Date:** **Source:**

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

Casing Size: **Depth Well:** 43 feet **Depth Water:**

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
	C 03600 POD4	3	3	1	26	24S	33E	636617	3562293

Driller License: 1186 **Driller Company:** NOT FOR HIRE

Driller Name: RODNEY HAMMER

Drill Start Date: 01/08/2013 **Drill Finish Date:** 01/08/2013 **Plug Date:**

Log File Date: 01/30/2013 **PCW Rcv Date:** **Source:** Shallow

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

Casing Size: **Depth Well:** **Depth Water:**

TAP ROCK

JACKSON UNIT #029H
GROUNDWATER MAP

Legend

JACKSON UNIT 29H

Targa Red Hills Gas Plant Main Truck Entrance

C04339 POD7-2,264-NO DGW INFO

C04339 POD8-2,196-NO DGW INFO

C04339 POD1-2,134- NO DGW INFO

C04708 POD1-300-NO DGW INFO

JACKSON UNIT 29H

C03600 POD4-2,357-NO DGW INFO

Hearns pit

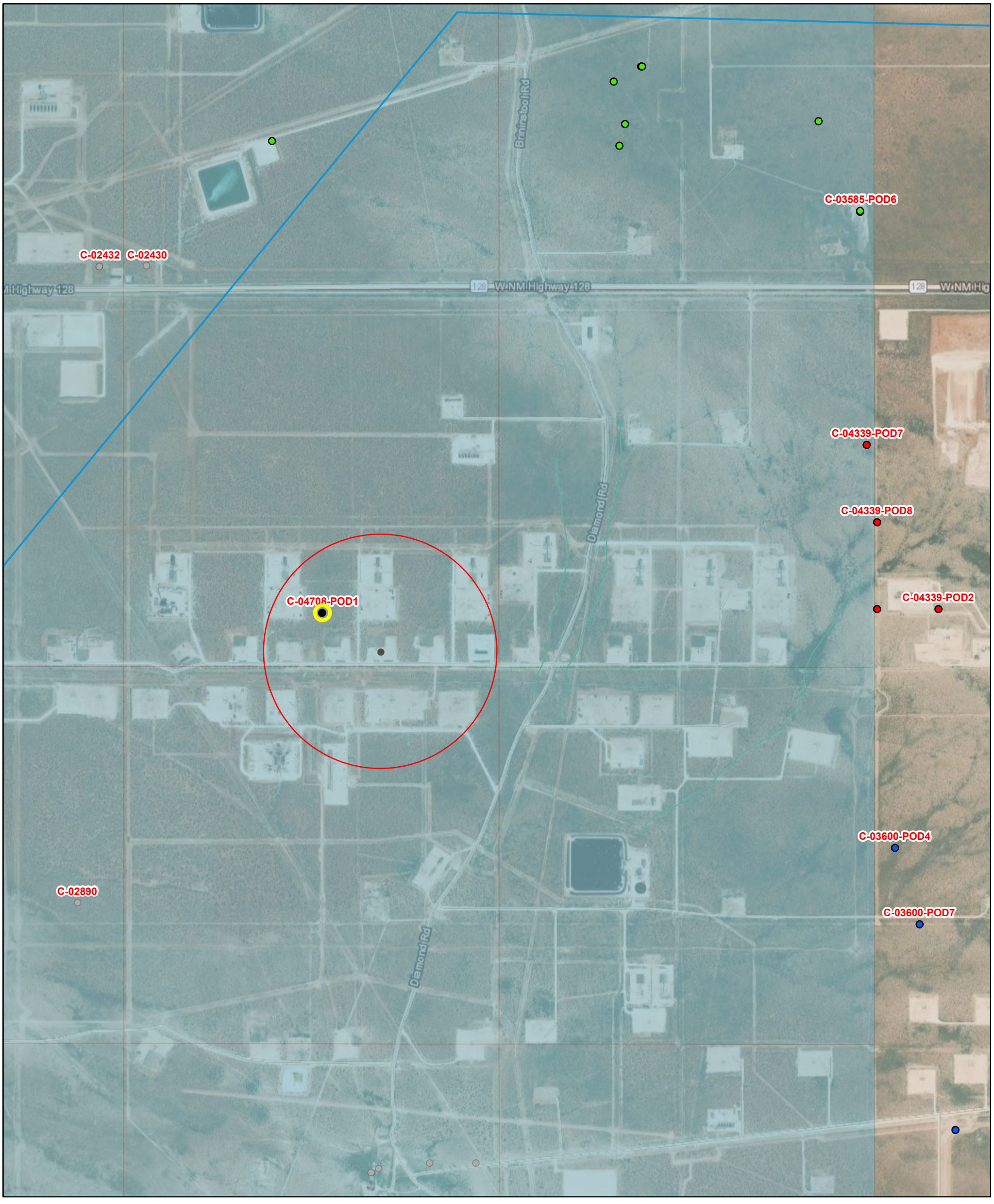
NGL North Ranch

Google Earth

N

4000 ft

OSE POD Location Map



6/17/2024, 1:50:27 PM

GIS WATERS PODs
- Active
- Pending
- Inactive
- Plugged

OSE District Boundary

Water Right Regulations
- Closure Area

Artesian Planning Area

New Mexico State Trust Lands
- Both Estates

NHD Flowlines
- Stream River

1:18,056

0 0.17 0.35 0.7 mi

0 0.28 0.55 1.1 km

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

Online web user

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

From: Natalie Gladden <natalie@energystaffingllc.com>
Sent: Tuesday, October 24, 2023 3:29 PM
To: ocdonline, emnrd, EMNRD <EMNRD.OCDOnline@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; SLO Spills <spills@slo.state.nm.us>
Cc: Brittney Corral <brittney@energystaffingllc.com>; Christian Combs <ccombs@taprk.com>
Subject: [EXTERNAL] TAPROCK EXTENSION REQUEST FOR JACKSON UNIT 29H
Importance: High

On behalf of Taprock, ESS would like to request a 60-day extension on the Jackson Unit 29H. We have vertically sampled the site just need to complete sidewalls, then remediation.

Jackson Unit #029H
DOR: 8/4/2023
API No. 30-025-41767
Incident No. nAPP2322234733

Let me know if you have any questions.

Natalie Gladden
Director of Environmental and Regulatory Services
Energy Staffing Services, LLC.
2724 NW County Road
Hobbs, NM 88240
Cell: 575-390-6397
Office: 575-393-9048
Email: natalie@energystaffingllc.com

Natalie Gladden

From: Knight, Tami C. <tknight@slo.state.nm.us>
Sent: Wednesday, October 25, 2023 7:44 AM
To: Natalie Gladden
Cc: Brittney Corral; Christian Combs
Subject: Updated Final Reporting to ECO Guidelines
Attachments: Spill and Release Notification Form_16Oct2023.pdf; Reporting to ECO_FINAL_13Oct2023.pdf

Natalie

Thank you for the notification about the extension request, ECO recognizes NMOCD's approval. I have also attached the final Reporting to ECO document. Please share with your colleagues and clients. If your team or clients would like to have a meeting to discuss any questions about the updated guidance document please let me know.

Thank you

PLEASE SUBMIT WORKPLANS AND REPORTS TO ECO@SLO.STATE.NM.US

Tami Knight, CHMM
Environmental Specialist
SRD-Environmental
Compliance Office (ECO)
505.670.1638
New Mexico State Land Office
1300 W. Broadway Avenue, Suite A
Bloomfield, NM 87413
tknight@slo.state.nm.us
nmstatelands.org

Company Name: TAP ROCK **LOCATION: JACKSON 29H** **Release Date:**

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil
SP1	SURF	2560	H	7.39	178	33000	13800	46800	480	
	1	240								
	2	240								
	3	320								
	4	240								
	5	240	L	ND	ND	ND	ND	ND	226	
SP2	SURF	720	H	3.38	118	16400	7390	23790	3270	
	1	160								
	2	160	L	ND	ND	ND	ND	ND	68.5	
SP3	SURF	80	H	31.5	632	56400	21800	78200	74.8	
	1	160								
	2	240								
	3	80								
	4	80								
	6	160								
	8	80	L	ND	ND	ND	ND	ND	ND	
SP4	SURF	80	H	2.34	62.9	18200	9680	27880	60.7	
	4	320								
	6	160								
	8	160	L	ND	ND	ND	ND	ND	ND	
SP5	SURF	480	H	5.03	219	29900	13000	42900	495	
	2	320								
	4	240								
	6	240								
	8	240	L	ND	ND	ND	ND	ND	194	
SP6	SURF	480	H	7.34	229	29600	11100	40700	622	

	2	80								
	4	80	L	ND	ND	ND	ND	ND	27.2	
SP7	SURF	1320	H	2.02	ND	26400	11400	37800	1230	
	2	240								
	4	80	L	ND	ND	ND	ND	ND	28.3	
SP8	SURF	2160	H	3.19	125	36500	14800	51300	2320	
	2	320								
	4	320								
	6	240								
	8	160	L	ND	ND	ND	ND	ND	ND	
SW1	SURF	2080	H	2.69	143	16500	7420	23920	2400	
	1	560								
	2	240								
	3	240	L	ND	ND	ND	ND	ND	248	
SW2	SURF	2720	H	2.98	107	22000	10500	32500	3460	
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	
SW3	SURF	80	H	7.19	223	34600	16900	51500	59.5	
	1	240								
	2	240	L	ND	ND	ND	ND	ND	222	
SW4	SURF	80	H	7.37	240	21400	11000	32400	32.9	
	1	640								
	2	560								
	3	240								
	4	240	L	ND	ND	ND	ND	ND	229	
SW5	SURF	480	H	6.5	216	32500	14600	47100	547	
	1	880								

	2	800								
	3	560								
	4	240								
	5	160								
	6	160	L	ND	ND	ND	ND	ND	ND	
SW6	SURF	80	H	4.68	190	25700	11500	37200	53.6	
	1	240								
	2	240	L	ND	ND	ND	ND	ND	224	
SW7	SURF	>4000	H	1.06	ND	14600	6580	21180	6580	
	1	160								
	2	160	L	ND	ND	ND	ND	ND	ND	

TAP ROCK

JACKSON UNIT #029H
DELINEATION MAP

Legend

- HORIZONTAL SAMPLE POINTS
- JACKSON UNIT #29H EXCAVATION AREA- 2,000 SQ. FT.
- VERTICAL SAMPLE POINTS

SW8
SW1
SP1
SP3
SP2
SW6
SP8
SP4
SW2
SW5
SP7
SP5
SP6
SW3
SW4

JACKSON UNIT 29H

N

40 ft

Google Earth

COMPANY: TAP ROCK **LOCATION:** JACKSON UNIT #029H

POINT	LATITUDE	LONGITUDE
SP1	32.196451°	-103.574425°
SP2	32.196457°	-103.574354°
SP3	32.196442°	-103.574390°
SP4	32.196423°	-103.574364°
SP5	32.196387°	-103.574360°
SP6	32.196358°	-103.574367°
SP7	32.196395°	-103.574389°
SP8	32.196425°	-103.574412°
SW1	32.196474°	-103.574346°
SW2	32.196403°	-103.574348°
SW3	32.196354°	-103.574348°
SW4	32.196341°	-103.574392°
SW5	32.196387°	-103.574396°
SW6	32.196420°	-103.574434°
SW7	32.196467°	-103.574407°

Report to:

Natalie Gladden

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Tap Rock

Project Name: Jackson 29 H

Work Order: E308051

Job Number: 20046-0001

Received: 8/9/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/10/23

Date Reported: 8/10/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: Jackson 29 H
Workorder: E308051
Date Received: 8/9/2023 7:00:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/9/2023 7:00:00AM, under the Project Name: Jackson 29 H.

The analytical test results summarized in this report with the Project Name: Jackson 29 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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

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

Alexa Michaels
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labadmin@envirotech-inc.com

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Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

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Sample Summary

Tap Rock	Project Name:	Jackson 29 H	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/10/23 16:25

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1-Surf	E308051-01A	Solid	08/07/23	08/09/23	Glass Jar, 2 oz.
SP2-Surf	E308051-02A	Solid	08/07/23	08/09/23	Glass Jar, 2 oz.
SP3-Surf	E308051-03A	Solid	08/07/23	08/09/23	Glass Jar, 2 oz.
SP4-Surf	E308051-04A	Solid	08/07/23	08/09/23	Glass Jar, 2 oz.
SP5-Surf	E308051-05A	Solid	08/07/23	08/09/23	Glass Jar, 2 oz.
SP6-Surf	E308051-06A	Solid	08/07/23	08/09/23	Glass Jar, 2 oz.
SP7-Surf	E308051-07A	Solid	08/07/23	08/09/23	Glass Jar, 2 oz.
SP8-Surf	E308051-08A	Solid	08/07/23	08/09/23	Glass Jar, 2 oz.
SW1-Surf	E308051-09A	Solid	08/07/23	08/09/23	Glass Jar, 2 oz.
SW2-Surf	E308051-10A	Solid	08/07/23	08/09/23	Glass Jar, 2 oz.
SW3-Surf	E308051-11A	Solid	08/07/23	08/09/23	Glass Jar, 2 oz.
SW4-Surf	E308051-12A	Solid	08/07/23	08/09/23	Glass Jar, 2 oz.
SW5-Surf	E308051-13A	Solid	08/07/23	08/09/23	Glass Jar, 2 oz.
SW6-Surf	E308051-14A	Solid	08/07/23	08/09/23	Glass Jar, 2 oz.
SW7-Surf	E308051-15A	Solid	08/07/23	08/09/23	Glass Jar, 2 oz.

Sample Data

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

SP1-Surf

E308051-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Benzene	**0.135**	0.0500	2	08/09/23	08/10/23	
Ethylbenzene	**1.24**	0.0500	2	08/09/23	08/10/23	
Toluene	**0.769**	0.0500	2	08/09/23	08/10/23	
o-Xylene	**2.76**	0.0500	2	08/09/23	08/10/23	
p,m-Xylene	**4.63**	0.100	2	08/09/23	08/10/23	
Total Xylenes	**7.39**	0.0500	2	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		*103 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Gasoline Range Organics (C6-C10)	**178**	40.0	2	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.6 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2332059
Diesel Range Organics (C10-C28)	**33000**	1250	50	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	**13800**	2500	50	08/09/23	08/10/23	
Surrogate: n-Nonane		*121 %*	*50-200*	*08/09/23*	*08/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332052
Chloride	**480**	20.0	1	08/09/23	08/09/23	

Sample Data

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

SP2-Surf

E308051-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Benzene	**0.0994**	0.0500	2	08/09/23	08/10/23	
Ethylbenzene	**0.535**	0.0500	2	08/09/23	08/10/23	
Toluene	**0.326**	0.0500	2	08/09/23	08/10/23	
o-Xylene	**1.32**	0.0500	2	08/09/23	08/10/23	
p,m-Xylene	**2.06**	0.100	2	08/09/23	08/10/23	
Total Xylenes	**3.38**	0.0500	2	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		*113 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Gasoline Range Organics (C6-C10)	**118**	40.0	2	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.3 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2332059
Diesel Range Organics (C10-C28)	**16400**	250	10	08/09/23	08/09/23	
Oil Range Organics (C28-C36)	**7390**	500	10	08/09/23	08/09/23	
Surrogate: n-Nonane		*87.9 %*	*50-200*	*08/09/23*	*08/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332052
Chloride	**3270**	40.0	2	08/09/23	08/09/23	

Sample Data

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

SP3-Surf

E308051-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Benzene	**0.272**	0.125	5	08/09/23	08/10/23	
Ethylbenzene	**4.87**	0.125	5	08/09/23	08/10/23	
Toluene	**1.13**	0.125	5	08/09/23	08/10/23	
o-Xylene	**11.3**	0.125	5	08/09/23	08/10/23	
p,m-Xylene	**20.2**	0.250	5	08/09/23	08/10/23	
Total Xylenes	**31.5**	0.125	5	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		*123 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Gasoline Range Organics (C6-C10)	**632**	100	5	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.5 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2332059
Diesel Range Organics (C10-C28)	**56400**	1250	50	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	**21800**	2500	50	08/09/23	08/10/23	
Surrogate: n-Nonane		*221 %*	*50-200*	*08/09/23*	*08/10/23*	*S5*
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332052
Chloride	**74.8**	20.0	1	08/09/23	08/09/23	

Sample Data

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

SP4-Surf

E308051-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Benzene	ND	0.0500	2	08/09/23	08/10/23	
Ethylbenzene	**0.287**	0.0500	2	08/09/23	08/10/23	
Toluene	**0.229**	0.0500	2	08/09/23	08/10/23	
o-Xylene	**0.837**	0.0500	2	08/09/23	08/10/23	
p,m-Xylene	**1.50**	0.100	2	08/09/23	08/10/23	
Total Xylenes	**2.34**	0.0500	2	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		*117 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Gasoline Range Organics (C6-C10)	**62.9**	40.0	2	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.7 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2332059
Diesel Range Organics (C10-C28)	**18200**	500	20	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	**9680**	1000	20	08/09/23	08/10/23	
Surrogate: n-Nonane		*104 %*	*50-200*	*08/09/23*	*08/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332052
Chloride	**60.7**	20.0	1	08/09/23	08/09/23	

Sample Data

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

SP5-Surf

E308051-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Benzene	**0.171**	0.125	5	08/09/23	08/10/23	
Ethylbenzene	**0.968**	0.125	5	08/09/23	08/10/23	
Toluene	**0.411**	0.125	5	08/09/23	08/10/23	
o-Xylene	**1.98**	0.125	5	08/09/23	08/10/23	
p,m-Xylene	**3.05**	0.250	5	08/09/23	08/10/23	
Total Xylenes	**5.03**	0.125	5	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		*109 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Gasoline Range Organics (C6-C10)	**219**	100	5	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.5 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2332059
Diesel Range Organics (C10-C28)	**29900**	500	20	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	**13000**	1000	20	08/09/23	08/10/23	
Surrogate: n-Nonane		*110 %*	*50-200*	*08/09/23*	*08/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332052
Chloride	**495**	20.0	1	08/09/23	08/09/23	

Sample Data

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

SP6-Surf

E308051-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Benzene	**0.202**	0.125	5	08/09/23	08/10/23	
Ethylbenzene	**1.16**	0.125	5	08/09/23	08/10/23	
Toluene	**0.459**	0.125	5	08/09/23	08/10/23	
o-Xylene	**2.82**	0.125	5	08/09/23	08/10/23	
p,m-Xylene	**4.52**	0.250	5	08/09/23	08/10/23	
Total Xylenes	**7.34**	0.125	5	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		*105 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Gasoline Range Organics (C6-C10)	**229**	100	5	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.6 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2332059
Diesel Range Organics (C10-C28)	**29600**	500	20	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	**11100**	1000	20	08/09/23	08/10/23	
Surrogate: n-Nonane		*118 %*	*50-200*	*08/09/23*	*08/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332052
Chloride	**622**	20.0	1	08/09/23	08/09/23	

Sample Data

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

SP7-Surf

E308051-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Benzene	ND	0.125	5	08/09/23	08/10/23	
Ethylbenzene	**0.246**	0.125	5	08/09/23	08/10/23	
Toluene	**0.267**	0.125	5	08/09/23	08/10/23	
o-Xylene	**0.620**	0.125	5	08/09/23	08/10/23	
p,m-Xylene	**1.40**	0.250	5	08/09/23	08/10/23	
Total Xylenes	**2.02**	0.125	5	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		*103 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Gasoline Range Organics (C6-C10)	ND	100	5	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.4 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2332059
Diesel Range Organics (C10-C28)	**26400**	1250	50	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	**11400**	2500	50	08/09/23	08/10/23	
Surrogate: n-Nonane		*98.1 %*	*50-200*	*08/09/23*	*08/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332052
Chloride	**1230**	20.0	1	08/09/23	08/09/23	

Sample Data

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

SP8-Surf

E308051-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Benzene	**0.167**	0.125	5	08/09/23	08/10/23	
Ethylbenzene	**0.439**	0.125	5	08/09/23	08/10/23	
Toluene	**0.461**	0.125	5	08/09/23	08/10/23	
o-Xylene	**1.19**	0.125	5	08/09/23	08/10/23	
p,m-Xylene	**2.00**	0.250	5	08/09/23	08/10/23	
Total Xylenes	**3.19**	0.125	5	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		*105 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Gasoline Range Organics (C6-C10)	**125**	100	5	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2332059
Diesel Range Organics (C10-C28)	**36500**	1250	50	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	**14800**	2500	50	08/09/23	08/10/23	
Surrogate: n-Nonane		*101 %*	*50-200*	*08/09/23*	*08/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332052
Chloride	**2320**	40.0	2	08/09/23	08/09/23	

Sample Data

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

SW1-Surf

E308051-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Benzene	**0.177**	0.125	5	08/09/23	08/10/23	
Ethylbenzene	**0.617**	0.125	5	08/09/23	08/10/23	
Toluene	**0.506**	0.125	5	08/09/23	08/10/23	
o-Xylene	**1.27**	0.125	5	08/09/23	08/10/23	
p,m-Xylene	**1.42**	0.250	5	08/09/23	08/10/23	
Total Xylenes	**2.69**	0.125	5	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.1 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Gasoline Range Organics (C6-C10)	**143**	100	5	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.8 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2332059
Diesel Range Organics (C10-C28)	**16500**	250	10	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	**7420**	500	10	08/09/23	08/10/23	
Surrogate: n-Nonane		*90.3 %*	*50-200*	*08/09/23*	*08/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332052
Chloride	**2400**	20.0	1	08/09/23	08/09/23	

Sample Data

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

SW2-Surf

E308051-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Benzene	**0.221**	0.125	5	08/09/23	08/10/23	
Ethylbenzene	**0.581**	0.125	5	08/09/23	08/10/23	
Toluene	**0.681**	0.125	5	08/09/23	08/10/23	
o-Xylene	**1.08**	0.125	5	08/09/23	08/10/23	
p,m-Xylene	**1.90**	0.250	5	08/09/23	08/10/23	
Total Xylenes	**2.98**	0.125	5	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		*96.2 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Gasoline Range Organics (C6-C10)	**107**	100	5	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.7 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2332059
Diesel Range Organics (C10-C28)	**22000**	1250	50	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	**10500**	2500	50	08/09/23	08/10/23	
Surrogate: n-Nonane		*93.1 %*	*50-200*	*08/09/23*	*08/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332052
Chloride	**3460**	40.0	2	08/09/23	08/09/23	

Sample Data

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

SW3-Surf

E308051-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Benzene	ND	0.125	5	08/09/23	08/10/23	
Ethylbenzene	**1.10**	0.125	5	08/09/23	08/10/23	
Toluene	**0.546**	0.125	5	08/09/23	08/10/23	
o-Xylene	**2.74**	0.125	5	08/09/23	08/10/23	
p,m-Xylene	**4.45**	0.250	5	08/09/23	08/10/23	
Total Xylenes	**7.19**	0.125	5	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		*105 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Gasoline Range Organics (C6-C10)	**223**	100	5	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.9 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2332059
Diesel Range Organics (C10-C28)	**34600**	1250	50	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	**16900**	2500	50	08/09/23	08/10/23	
Surrogate: n-Nonane		*120 %*	*50-200*	*08/09/23*	*08/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332052
Chloride	**59.5**	20.0	1	08/09/23	08/09/23	

Sample Data

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

SW4-Surf

E308051-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Benzene	ND	0.125	5	08/09/23	08/10/23	
Ethylbenzene	**1.11**	0.125	5	08/09/23	08/10/23	
Toluene	**0.358**	0.125	5	08/09/23	08/10/23	
o-Xylene	**2.78**	0.125	5	08/09/23	08/10/23	
p,m-Xylene	**4.59**	0.250	5	08/09/23	08/10/23	
Total Xylenes	**7.37**	0.125	5	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		*105 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Gasoline Range Organics (C6-C10)	**240**	100	5	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.7 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2332059
Diesel Range Organics (C10-C28)	**21400**	500	20	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	**11000**	1000	20	08/09/23	08/10/23	
Surrogate: n-Nonane		*115 %*	*50-200*	*08/09/23*	*08/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332052
Chloride	**32.9**	20.0	1	08/09/23	08/09/23	

Sample Data

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

SW5-Surf

E308051-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Benzene	**0.133**	0.125	5	08/09/23	08/10/23	
Ethylbenzene	**1.31**	0.125	5	08/09/23	08/10/23	
Toluene	**0.451**	0.125	5	08/09/23	08/10/23	
o-Xylene	**2.40**	0.125	5	08/09/23	08/10/23	
p,m-Xylene	**4.10**	0.250	5	08/09/23	08/10/23	
Total Xylenes	**6.50**	0.125	5	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		*106 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Gasoline Range Organics (C6-C10)	**216**	100	5	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.2 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2332059
Diesel Range Organics (C10-C28)	**32500**	1250	50	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	**14600**	2500	50	08/09/23	08/10/23	
Surrogate: n-Nonane		*110 %*	*50-200*	*08/09/23*	*08/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332052
Chloride	**547**	20.0	1	08/09/23	08/09/23	

Sample Data

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

SW6-Surf

E308051-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Benzene	**0.160**	0.125	5	08/09/23	08/10/23	
Ethylbenzene	**0.842**	0.125	5	08/09/23	08/10/23	
Toluene	**0.366**	0.125	5	08/09/23	08/10/23	
o-Xylene	**1.83**	0.125	5	08/09/23	08/10/23	
p,m-Xylene	**2.85**	0.250	5	08/09/23	08/10/23	
Total Xylenes	**4.68**	0.125	5	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		*104 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Gasoline Range Organics (C6-C10)	**190**	100	5	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.3 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2332059
Diesel Range Organics (C10-C28)	**25700**	1250	50	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	**11500**	2500	50	08/09/23	08/10/23	
Surrogate: n-Nonane		*113 %*	*50-200*	*08/09/23*	*08/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332052
Chloride	**53.6**	20.0	1	08/09/23	08/09/23	

Sample Data

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

SW7-Surf

E308051-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Benzene	ND	0.125	5	08/09/23	08/10/23	
Ethylbenzene	**0.430**	0.125	5	08/09/23	08/10/23	
Toluene	**0.359**	0.125	5	08/09/23	08/10/23	
o-Xylene	**0.545**	0.125	5	08/09/23	08/10/23	
p,m-Xylene	**0.512**	0.250	5	08/09/23	08/10/23	
Total Xylenes	**1.06**	0.125	5	08/09/23	08/10/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.3 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2332049
Gasoline Range Organics (C6-C10)	ND	100	5	08/09/23	08/10/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.6 %*	*70-130*	*08/09/23*	*08/10/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2332059
Diesel Range Organics (C10-C28)	**14600**	500	20	08/09/23	08/10/23	
Oil Range Organics (C28-C36)	**6580**	1000	20	08/09/23	08/10/23	
Surrogate: n-Nonane		*87.6 %*	*50-200*	*08/09/23*	*08/10/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2332052
Chloride	**6580**	200	10	08/09/23	08/09/23	

QC Summary Data

Tap Rock	Project Name:	Jackson 29 H	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2332049-BLK1)									Prepared: 08/09/23 Analyzed: 08/10/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.50*		*8.00*		*93.7*	*70-130*			
LCS (2332049-BS1)									Prepared: 08/09/23 Analyzed: 08/10/23
Benzene	5.19	0.0250	5.00		104	70-130			
Ethylbenzene	5.11	0.0250	5.00		102	70-130			
Toluene	5.20	0.0250	5.00		104	70-130			
o-Xylene	5.13	0.0250	5.00		103	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.5	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.64*		*8.00*		*95.5*	*70-130*			
Matrix Spike (2332049-MS1)				**Source: E308051-04**					Prepared: 08/09/23 Analyzed: 08/10/23
Benzene	10.5	0.0500	10.0	ND	105	54-133			
Ethylbenzene	10.6	0.0500	10.0	0.287	104	61-133			
Toluene	10.6	0.0500	10.0	0.229	104	61-130			
o-Xylene	11.9	0.0500	10.0	0.837	110	63-131			
p,m-Xylene	22.2	0.100	20.0	1.50	104	63-131			
Total Xylenes	34.1	0.0500	30.0	2.34	106	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*18.0*		*16.0*		*112*	*70-130*			
Matrix Spike Dup (2332049-MSD1)				**Source: E308051-04**					Prepared: 08/09/23 Analyzed: 08/10/23
Benzene	10.5	0.0500	10.0	ND	105	54-133	0.0315	20	
Ethylbenzene	10.6	0.0500	10.0	0.287	103	61-133	0.0940	20	
Toluene	10.6	0.0500	10.0	0.229	104	61-130	0.213	20	
o-Xylene	11.9	0.0500	10.0	0.837	110	63-131	0.217	20	
p,m-Xylene	22.2	0.100	20.0	1.50	103	63-131	0.206	20	
Total Xylenes	34.0	0.0500	30.0	2.34	106	63-131	0.0584	20	
Surrogate: 4-Bromochlorobenzene-PID	*17.8*		*16.0*		*111*	*70-130*			

QC Summary Data

Tap Rock	Project Name:	Jackson 29 H	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2332049-BLK1)									Prepared: 08/09/23 Analyzed: 08/10/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.04*		*8.00*		*88.0*	*70-130*			
LCS (2332049-BS2)									Prepared: 08/09/23 Analyzed: 08/10/23
Gasoline Range Organics (C6-C10)	50.6	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.15*		*8.00*		*89.4*	*70-130*			
Matrix Spike (2332049-MS2)				**Source: E308051-04**					Prepared: 08/09/23 Analyzed: 08/10/23
Gasoline Range Organics (C6-C10)	199	40.0	100	62.9	136	70-130			M5
Surrogate: 1-Chloro-4-fluorobenzene-FID	*14.6*		*16.0*		*91.1*	*70-130*			
Matrix Spike Dup (2332049-MSD2)				**Source: E308051-04**					Prepared: 08/09/23 Analyzed: 08/10/23
Gasoline Range Organics (C6-C10)	199	40.0	100	62.9	136	70-130	0.0868	20	M5
Surrogate: 1-Chloro-4-fluorobenzene-FID	*14.7*		*16.0*		*91.8*	*70-130*			

QC Summary Data

Tap Rock	Project Name:	Jackson 29 H	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2332059-BLK1)									Prepared: 08/09/23 Analyzed: 08/09/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*51.4*		*50.0*		*103*	*50-200*			
LCS (2332059-BS1)									Prepared: 08/09/23 Analyzed: 08/09/23
Diesel Range Organics (C10-C28)	253	25.0	250		101	38-132			
Surrogate: n-Nonane	*52.1*		*50.0*		*104*	*50-200*			
Matrix Spike (2332059-MS1)				**Source: E308051-06**					Prepared: 08/09/23 Analyzed: 08/09/23
Diesel Range Organics (C10-C28)	31400	500	250	29600	685	38-132			M4
Surrogate: n-Nonane	*63.5*		*50.0*		*127*	*50-200*			
Matrix Spike Dup (2332059-MSD1)				**Source: E308051-06**					Prepared: 08/09/23 Analyzed: 08/09/23
Diesel Range Organics (C10-C28)	30800	500	250	29600	480	38-132	1.65	20	M4
Surrogate: n-Nonane	*62.7*		*50.0*		*125*	*50-200*			

QC Summary Data

Tap Rock	Project Name:	Jackson 29 H	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/10/2023 4:25:45PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2332052-BLK1)									Prepared: 08/09/23 Analyzed: 08/09/23
Chloride	ND	20.0							
LCS (2332052-BS1)									Prepared: 08/09/23 Analyzed: 08/09/23
Chloride	262	20.0	250		105	90-110			
Matrix Spike (2332052-MS1)				**Source: E308051-01**					Prepared: 08/09/23 Analyzed: 08/09/23
Chloride	720	20.0	250	480	95.9	80-120			
Matrix Spike Dup (2332052-MSD1)				**Source: E308051-01**					Prepared: 08/09/23 Analyzed: 08/09/23
Chloride	751	20.0	250	480	108	80-120	4.27	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

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/10/23 16:25

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.
M5	The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
S5	Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

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

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

Project Information | Chain of Custody | Page 1 of 2

Client:	TAPRock
Project:	JACKSON 29 H
Project Manager:	Natalie
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention:	ESS
Address:	2724 NW COUNTY ROAD
City, State, Zip	HOBBS, NM 88240
Phone:	575-393-9048
EMAIL TO:	Natalie@energystaffingllc.com
	Dakoatah@energystaffingllc.com

Lab Use Only

Lab WO#: E308051 | Job Number: 2004000001

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

EPA Program: CWA | SDWA | RCRA

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

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

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
	8/7/23	S	1	SP1 - SURF	1	
				SP2 - SURF	2	
				SP3 - SURF	3	
				SP4 - SURF	4	
				SP5 - SURF	5	
				SP6 - SURF	6	
				SP7 - SURF	7	
				SP8 - SURF	8	
				SW1 - SURF	9	
				SW2 - SURF	10	

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	8/7/23		Michelle Gaugle	8-8-23	1230
Michelle Gaugle	8-8-23	1615	Andrew Mosso	8-8-23	1630
Andrew Mosso	8-9-23	2430	Kenjie R Hall	8-9-23	0700

Lab Use Only — Received on ice: (Y) N — T1 — T2 — T3 — 4

Project Information | Chain of Custody | Page 2 of 2

Client:	TAPROCK
Project:	JACKSON 29H
Project Manager:	Natalie
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention:	ESS
Address:	2724 NW COUNTY ROAD
City, State, Zip	HOBBS, NM 88240
Phone:	575-393-9048
EMAIL TO:	Natalie@energystaffingllc.com
	Dakoatah@energystaffingllc.com

Lab Use Only

Lab WO#: E308051 | Job Number: 20046000

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

EPA Program: CWA | SDWA | RCRA

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

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	RGDOC NM	BGDOC TX	Remarks
	8/7/23	S	1	SW3 - SURF	11							X		
				SW4 - SURF	12									
				SW5 - SURF	13									
				SW6 - SURF	14									
	8/7/23	S	1	SW7 - SURF	15							X		

Analysis and Method

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	8/7/23		Michelle Garcia	8-8-23	1230
Michelle Garcia	8-8-23	1615	Andrew Mesa	8.8.23	1830
Andrew Mesa	8.9.23	2430	Kayla R Heer	8-9-23	0700

Lab Use Only — Received on ice: (Y) / N — T1 — T2 — T3 — 4

Envirotech Analytical Laboratory

Printed: 8/9/2023 1:05:14PM

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:	Tap Rock	Date Received:	08/09/23 07:00	Work Order ID:	E308051
Phone:	(575) 390-6397	Date Logged In:	08/08/23 16:33	Logged In By:	Alexa Michaels
Email:	natalie@energystaffingllc.com	Due Date:	08/10/23 17:00 (1 day TAT)		

Chain of Custody (COC)

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

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Time sampled is not documented on the COC by client.

Client Instruction

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

Date

envirotech Inc.

Report to:

Natalie Gladden

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Tap Rock

Project Name:	Jackson 29 H
Work Order:	E308140
Job Number:	20046-0001
Received:	8/18/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/22/23

Date Reported: 8/22/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: Jackson 29 H
Workorder: E308140
Date Received: 8/18/2023 12:00:00PM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/18/2023 12:00:00PM, under the Project Name: Jackson 29 H.

The analytical test results summarized in this report with the Project Name: Jackson 29 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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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

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

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

Field Offices:

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Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Tap Rock	Project Name:	Jackson 29 H	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/22/23 16:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1 - 5'	E308140-01A	Soil	08/16/23	08/18/23	Glass Jar, 2 oz.
SP2 - 2'	E308140-02A	Soil	08/16/23	08/18/23	Glass Jar, 2 oz.

Sample Data

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/22/2023 4:20:13PM

SP1 - 5'

E308140-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2334006
Benzene	ND	0.0250	1	08/21/23	08/22/23	
Ethylbenzene	ND	0.0250	1	08/21/23	08/22/23	
Toluene	ND	0.0250	1	08/21/23	08/22/23	
o-Xylene	ND	0.0250	1	08/21/23	08/22/23	
p,m-Xylene	ND	0.0500	1	08/21/23	08/22/23	
Total Xylenes	ND	0.0250	1	08/21/23	08/22/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.4 %*	*70-130*	*08/21/23*	*08/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2334006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/23	08/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.9 %*	*70-130*	*08/21/23*	*08/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2334005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/21/23	08/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/23	08/22/23	
Surrogate: n-Nonane		*97.4 %*	*50-200*	*08/21/23*	*08/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2334010
Chloride	**226**	20.0	1	08/21/23	08/21/23	

Sample Data

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/22/2023 4:20:13PM

SP2 - 2'

E308140-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2334006
Benzene	ND	0.0250	1	08/21/23	08/22/23	
Ethylbenzene	ND	0.0250	1	08/21/23	08/22/23	
Toluene	ND	0.0250	1	08/21/23	08/22/23	
o-Xylene	ND	0.0250	1	08/21/23	08/22/23	
p,m-Xylene	ND	0.0500	1	08/21/23	08/22/23	
Total Xylenes	ND	0.0250	1	08/21/23	08/22/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.3 %*	*70-130*	*08/21/23*	*08/22/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2334006
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/21/23	08/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.7 %*	*70-130*	*08/21/23*	*08/22/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2334005
Diesel Range Organics (C10-C28)	ND	25.0	1	08/21/23	08/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/21/23	08/22/23	
Surrogate: n-Nonane		*99.0 %*	*50-200*	*08/21/23*	*08/22/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2334010
Chloride	**68.5**	20.0	1	08/21/23	08/21/23	

QC Summary Data

Tap Rock	Project Name:	Jackson 29 H	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/22/2023 4:20:13PM

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
Blank (2334006-BLK1)									Prepared: 08/21/23 Analyzed: 08/22/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.47*		*8.00*		*93.3*	*70-130*			
LCS (2334006-BS1)									Prepared: 08/21/23 Analyzed: 08/22/23
Benzene	5.11	0.0250	5.00		102	70-130			
Ethylbenzene	5.02	0.0250	5.00		100	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	5.03	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.46*		*8.00*		*93.3*	*70-130*			
Matrix Spike (2334006-MS1)				**Source: E308141-24**					Prepared: 08/21/23 Analyzed: 08/22/23
Benzene	5.19	0.0250	5.00	ND	104	54-133			
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133			
Toluene	5.17	0.0250	5.00	ND	103	61-130			
o-Xylene	5.10	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.47*		*8.00*		*93.4*	*70-130*			
Matrix Spike Dup (2334006-MSD1)				**Source: E308141-24**					Prepared: 08/21/23 Analyzed: 08/22/23
Benzene	4.99	0.0250	5.00	ND	99.9	54-133	3.90	20	
Ethylbenzene	4.90	0.0250	5.00	ND	98.0	61-133	3.66	20	
Toluene	4.98	0.0250	5.00	ND	99.5	61-130	3.81	20	
o-Xylene	4.91	0.0250	5.00	ND	98.2	63-131	3.72	20	
p,m-Xylene	9.96	0.0500	10.0	ND	99.6	63-131	3.75	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.2	63-131	3.74	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.43*		*8.00*		*92.9*	*70-130*			

QC Summary Data

Tap Rock	Project Name:	Jackson 29 H	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/22/2023 4:20:13PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2334006-BLK1)									Prepared: 08/21/23 Analyzed: 08/22/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.28*		*8.00*		*91.0*	*70-130*			
LCS (2334006-BS2)									Prepared: 08/21/23 Analyzed: 08/22/23
Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.38*		*8.00*		*92.3*	*70-130*			
Matrix Spike (2334006-MS2)				**Source: E308141-24**					Prepared: 08/21/23 Analyzed: 08/22/23
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.33*		*8.00*		*91.6*	*70-130*			
Matrix Spike Dup (2334006-MSD2)				**Source: E308141-24**					Prepared: 08/21/23 Analyzed: 08/22/23
Gasoline Range Organics (C6-C10)	48.0	20.0	50.0	ND	95.9	70-130	7.30	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.28*		*8.00*		*91.1*	*70-130*			

QC Summary Data

Tap Rock	Project Name:	Jackson 29 H	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/22/2023 4:20:13PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2334005-BLK1)									Prepared: 08/21/23 Analyzed: 08/22/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*51.2*		*50.0*		*102*	*50-200*			
LCS (2334005-BS1)									Prepared: 08/21/23 Analyzed: 08/22/23
Diesel Range Organics (C10-C28)	257	25.0	250		103	38-132			
Surrogate: n-Nonane	*51.5*		*50.0*		*103*	*50-200*			
Matrix Spike (2334005-MS1)				**Source: E308144-01**					Prepared: 08/21/23 Analyzed: 08/22/23
Diesel Range Organics (C10-C28)	661	25.0	250	483	71.1	38-132			
Surrogate: n-Nonane	*47.3*		*50.0*		*94.7*	*50-200*			
Matrix Spike Dup (2334005-MSD1)				**Source: E308144-01**					Prepared: 08/21/23 Analyzed: 08/22/23
Diesel Range Organics (C10-C28)	840	25.0	250	483	143	38-132	23.9	20	M4, R2
Surrogate: n-Nonane	*56.0*		*50.0*		*112*	*50-200*			

QC Summary Data

Tap Rock	Project Name:	Jackson 29 H	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	8/22/2023 4:20:13PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2334010-BLK1)									Prepared: 08/21/23 Analyzed: 08/21/23
Chloride	ND	20.0							
LCS (2334010-BS1)									Prepared: 08/21/23 Analyzed: 08/22/23
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2334010-MS1)				**Source: E308147-01**					Prepared: 08/21/23 Analyzed: 08/21/23
Chloride	1140	20.0	250	959	70.8	80-120			M4
Matrix Spike Dup (2334010-MSD1)				**Source: E308147-01**					Prepared: 08/21/23 Analyzed: 08/21/23
Chloride	1070	20.0	250	959	45.5	80-120	5.72	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

Tap Rock	Project Name:	Jackson 29 H	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	08/22/23 16:20

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

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

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

Project Information | Chain of Custody | Page 1 of 1

Client:	TAPROCK
Project:	JACKSON 29H
Project Manager:	N. Gladden
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

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

Lab Use Only

Lab WO# E308140 | Job Number 20046-0001

TAT

1D	2D	3D	Standard
	X		

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	8/16/23	S	1	SP1-5'	1							X		
	8/16/23	S	1	SP2-2'	2							X		

Analysis and Method

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	8/16/23			8/18/23	1200
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 8/22/2023 2:25:51PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Tap Rock	Date Received:	08/18/23 12:00	Work Order ID:	E308140
Phone:	(575) 390-6397	Date Logged In:	08/18/23 15:03	Logged In By:	Caitlin Mars
Email:	natalie@energystaffingllc.com	Due Date:	08/22/23 17:00 (2 day TAT)		

Chain of Custody (COC)

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

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: na

Comments/Resolution

Time sampled not provided on COC per client.

Client Instruction

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

Date

envirotech Inc.

Report to:

Natalie Gladden

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Tap Rock

Project Name:	Jackson Unit 29
Work Order:	E312114
Job Number:	20046-0001
Received:	12/18/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/19/23

Date Reported: 12/19/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: Jackson Unit 29
Workorder: E312114
Date Received: 12/18/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/18/2023 7:30:00AM, under the Project Name: Jackson Unit 29.

The analytical test results summarized in this report with the Project Name: Jackson Unit 29 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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Sample Custody Officer
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labadmin@envirotech-inc.com

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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Tap Rock	Project Name:	Jackson Unit 29	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/19/23 13:54

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP3-8'	E312114-01A	Soil	12/14/23	12/18/23	Glass Jar, 2 oz.
SP4-8'	E312114-02A	Soil	12/14/23	12/18/23	Glass Jar, 2 oz.
SP7-4'	E312114-03A	Soil	12/14/23	12/18/23	Glass Jar, 2 oz.
SP6-4'	E312114-04A	Soil	12/14/23	12/18/23	Glass Jar, 2 oz.
SP5-8'	E312114-05A	Soil	12/14/23	12/18/23	Glass Jar, 2 oz.

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/19/2023 1:54:16PM

SP3-8'

E312114-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2351015
Benzene	ND	0.0250	1	12/18/23	12/18/23	
Ethylbenzene	ND	0.0250	1	12/18/23	12/18/23	
Toluene	ND	0.0250	1	12/18/23	12/18/23	
o-Xylene	ND	0.0250	1	12/18/23	12/18/23	
p,m-Xylene	ND	0.0500	1	12/18/23	12/18/23	
Total Xylenes	ND	0.0250	1	12/18/23	12/18/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.2 %*	*70-130*	*12/18/23*	*12/18/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2351015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/18/23	12/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*12/18/23*	*12/18/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2351012
Diesel Range Organics (C10-C28)	ND	25.0	1	12/18/23	12/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/18/23	12/19/23	
Surrogate: n-Nonane		*90.9 %*	*50-200*	*12/18/23*	*12/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2351022
Chloride	ND	20.0	1	12/18/23	12/18/23	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/19/2023 1:54:16PM

SP4-8'

E312114-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2351015
Benzene	ND	0.0250	1	12/18/23	12/18/23	
Ethylbenzene	ND	0.0250	1	12/18/23	12/18/23	
Toluene	ND	0.0250	1	12/18/23	12/18/23	
o-Xylene	ND	0.0250	1	12/18/23	12/18/23	
p,m-Xylene	ND	0.0500	1	12/18/23	12/18/23	
Total Xylenes	ND	0.0250	1	12/18/23	12/18/23	
Surrogate: 4-Bromochlorobenzene-PID		*91.6 %*	*70-130*	*12/18/23*	*12/18/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2351015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/18/23	12/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.5 %*	*70-130*	*12/18/23*	*12/18/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2351012
Diesel Range Organics (C10-C28)	ND	25.0	1	12/18/23	12/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/18/23	12/19/23	
Surrogate: n-Nonane		*90.4 %*	*50-200*	*12/18/23*	*12/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2351022
Chloride	ND	20.0	1	12/18/23	12/18/23	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/19/2023 1:54:16PM

SP7-4'

E312114-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2351015
Benzene	ND	0.0250	1	12/18/23	12/18/23	
Ethylbenzene	ND	0.0250	1	12/18/23	12/18/23	
Toluene	ND	0.0250	1	12/18/23	12/18/23	
o-Xylene	ND	0.0250	1	12/18/23	12/18/23	
p,m-Xylene	ND	0.0500	1	12/18/23	12/18/23	
Total Xylenes	ND	0.0250	1	12/18/23	12/18/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.2 %*	*70-130*	*12/18/23*	*12/18/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2351015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/18/23	12/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.0 %*	*70-130*	*12/18/23*	*12/18/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2351012
Diesel Range Organics (C10-C28)	ND	25.0	1	12/18/23	12/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/18/23	12/19/23	
Surrogate: n-Nonane		*92.6 %*	*50-200*	*12/18/23*	*12/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2351022
Chloride	**28.3**	20.0	1	12/18/23	12/18/23	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/19/2023 1:54:16PM

SP6-4'

E312114-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2351015
Benzene	ND	0.0250	1	12/18/23	12/18/23	
Ethylbenzene	ND	0.0250	1	12/18/23	12/18/23	
Toluene	ND	0.0250	1	12/18/23	12/18/23	
o-Xylene	ND	0.0250	1	12/18/23	12/18/23	
p,m-Xylene	ND	0.0500	1	12/18/23	12/18/23	
Total Xylenes	ND	0.0250	1	12/18/23	12/18/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.9 %*	*70-130*	*12/18/23*	*12/18/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2351015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/18/23	12/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.6 %*	*70-130*	*12/18/23*	*12/18/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2351012
Diesel Range Organics (C10-C28)	ND	25.0	1	12/18/23	12/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/18/23	12/19/23	
Surrogate: n-Nonane		*89.8 %*	*50-200*	*12/18/23*	*12/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2351022
Chloride	**27.2**	20.0	1	12/18/23	12/18/23	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/19/2023 1:54:16PM

SP5-8'

E312114-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS			Batch: 2351015
Benzene	ND	0.0250	1	12/18/23	12/18/23	
Ethylbenzene	ND	0.0250	1	12/18/23	12/18/23	
Toluene	ND	0.0250	1	12/18/23	12/18/23	
o-Xylene	ND	0.0250	1	12/18/23	12/18/23	
p,m-Xylene	ND	0.0500	1	12/18/23	12/18/23	
Total Xylenes	ND	0.0250	1	12/18/23	12/18/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.4 %*	*70-130*	*12/18/23*	*12/18/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS			Batch: 2351015
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/18/23	12/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.1 %*	*70-130*	*12/18/23*	*12/18/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2351012
Diesel Range Organics (C10-C28)	ND	25.0	1	12/18/23	12/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/18/23	12/19/23	
Surrogate: n-Nonane		*92.2 %*	*50-200*	*12/18/23*	*12/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2351022
Chloride	**194**	100	5	12/18/23	12/18/23	

QC Summary Data

Tap Rock	Project Name:	Jackson Unit 29	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/19/2023 1:54:16PM

Volatile Organics by EPA 8021B

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2351015-BLK1)									Prepared: 12/18/23 Analyzed: 12/18/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.51*		*8.00*		*93.9*	*70-130*			
LCS (2351015-BS1)									Prepared: 12/18/23 Analyzed: 12/18/23
Benzene	4.60	0.0250	5.00		92.1	70-130			
Ethylbenzene	4.53	0.0250	5.00		90.7	70-130			
Toluene	4.59	0.0250	5.00		91.7	70-130			
o-Xylene	4.54	0.0250	5.00		90.7	70-130			
p,m-Xylene	9.26	0.0500	10.0		92.6	70-130			
Total Xylenes	13.8	0.0250	15.0		92.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.50*		*8.00*		*93.7*	*70-130*			
Matrix Spike (2351015-MS1)				**Source: E312115-01**					Prepared: 12/18/23 Analyzed: 12/18/23
Benzene	5.07	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.97	0.0250	5.00	ND	99.5	61-133			
Toluene	5.04	0.0250	5.00	ND	101	61-130			
o-Xylene	4.98	0.0250	5.00	ND	99.6	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.43*		*8.00*		*92.9*	*70-130*			
Matrix Spike Dup (2351015-MSD1)				**Source: E312115-01**					Prepared: 12/18/23 Analyzed: 12/18/23
Benzene	4.94	0.0250	5.00	ND	98.7	54-133	2.70	20	
Ethylbenzene	4.86	0.0250	5.00	ND	97.3	61-133	2.25	20	
Toluene	4.93	0.0250	5.00	ND	98.5	61-130	2.36	20	
o-Xylene	4.86	0.0250	5.00	ND	97.3	63-131	2.36	20	
p,m-Xylene	9.92	0.0500	10.0	ND	99.2	63-131	2.14	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.5	63-131	2.21	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.34*		*8.00*		*91.8*	*70-130*			

QC Summary Data

Tap Rock	Project Name:	Jackson Unit 29	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/19/2023 1:54:16PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2351015-BLK1)									Prepared: 12/18/23 Analyzed: 12/18/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.23*		*8.00*		*90.4*	*70-130*			
LCS (2351015-BS2)									Prepared: 12/18/23 Analyzed: 12/18/23
Gasoline Range Organics (C6-C10)	40.1	20.0	50.0		80.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.37*		*8.00*		*92.1*	*70-130*			
Matrix Spike (2351015-MS2)				**Source: E312115-01**					Prepared: 12/18/23 Analyzed: 12/18/23
Gasoline Range Organics (C6-C10)	43.0	20.0	50.0	ND	85.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.40*		*8.00*		*92.5*	*70-130*			
Matrix Spike Dup (2351015-MSD2)				**Source: E312115-01**					Prepared: 12/18/23 Analyzed: 12/18/23
Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	ND	80.6	70-130	6.36	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.35*		*8.00*		*91.8*	*70-130*			

QC Summary Data

Tap Rock	Project Name:	Jackson Unit 29	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/19/2023 1:54:16PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2351012-BLK1)									Prepared: 12/18/23 Analyzed: 12/18/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*44.2*		*50.0*		*88.3*	*50-200*			
LCS (2351012-BS1)									Prepared: 12/18/23 Analyzed: 12/18/23
Diesel Range Organics (C10-C28)	226	25.0	250		90.3	38-132			
Surrogate: n-Nonane	*44.1*		*50.0*		*88.3*	*50-200*			
Matrix Spike (2351012-MS1)				**Source: E312115-01**					Prepared: 12/18/23 Analyzed: 12/18/23
Diesel Range Organics (C10-C28)	233	25.0	250	ND	93.3	38-132			
Surrogate: n-Nonane	*45.1*		*50.0*		*90.1*	*50-200*			
Matrix Spike Dup (2351012-MSD1)				**Source: E312115-01**					Prepared: 12/18/23 Analyzed: 12/18/23
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.6	38-132	1.38	20	
Surrogate: n-Nonane	*45.5*		*50.0*		*91.0*	*50-200*			

QC Summary Data

Tap Rock	Project Name:	Jackson Unit 29	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/19/2023 1:54:16PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2351022-BLK1)									Prepared: 12/18/23 Analyzed: 12/18/23
Chloride	ND	20.0							
LCS (2351022-BS1)									Prepared: 12/18/23 Analyzed: 12/18/23
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2351022-MS1)				**Source: E312114-05**					Prepared: 12/18/23 Analyzed: 12/18/23
Chloride	472	100	250	194	111	80-120			
Matrix Spike Dup (2351022-MSD1)				**Source: E312114-05**					Prepared: 12/18/23 Analyzed: 12/18/23
Chloride	440	100	250	194	98.1	80-120	7.02	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

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/19/23 13:54

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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

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

Project Information

Chain of Custody

Client: Jap Rock
Project: Jackson Unit 79
Project Manager: N. Gladden
Address:
City, State, Zip
Phone:
Email:
Report due by:

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

Lab Use Only
Lab WO# E312114
Job Number 2004620001

TAT
1D | 2D | 3D | Standard
2D

EPA Program
CWA | SDWA | RCRA

State
NM | CO | UT | AZ | TX
NM

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	12/14/23	S	1	SP3-8'	1							X		
				SP4-8'	2									
				SP7-4'	3									
				SP6-4	4									
	12/14/23	S	1	SP5-8'	5							X		

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jose L Alvarez	12/14/23	1215		12.14.23	1215
	12.15.23	1500		12/18/23	730

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

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

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 12/18/2023 8:13:47AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Tap Rock	Date Received:	12/18/23 07:30	Work Order ID:	E312114
Phone:	(575) 390-6397	Date Logged In:	12/18/23 08:11	Logged In By:	Alexa Michaels
Email:	natalie@energystaffingllc.com	Due Date:	12/19/23 17:00 (1 day TAT)		

Chain of Custody (COC)

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

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Time sampled is not documented on the COC by client.

Client Instruction

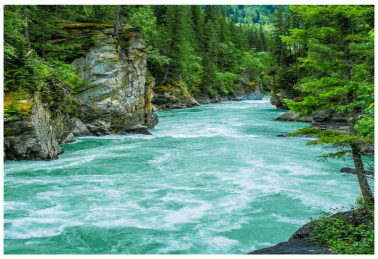
Signature of client authorizing changes to the COC or sample disposition.

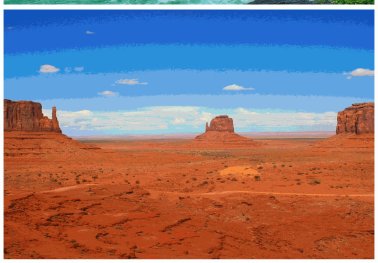
Date

envirotech Inc.

Report to:

Natalie Gladden





5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Tap Rock

Project Name:	Jackson Unit 29
Work Order:	E312127
Job Number:	20046-0001
Received:	12/19/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/20/23

Date Reported: 12/20/23

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: Jackson Unit 29
Workorder: E312127
Date Received: 12/19/2023 7:30:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/19/2023 7:30:00AM, under the Project Name: Jackson Unit 29.

The analytical test results summarized in this report with the Project Name: Jackson Unit 29 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

Alexa Michaels
Sample Custody Officer
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labadmin@envirotech-inc.com

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ljarboe@envirotech-inc.com

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Client Representative
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Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Tap Rock	Project Name:	Jackson Unit 29	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/20/23 16:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP8-8'	E312127-01A	Soil	12/15/23	12/19/23	Glass Jar, 2 oz.
SW1-3'	E312127-02A	Soil	12/15/23	12/19/23	Glass Jar, 2 oz.
SW2-2'	E312127-03A	Soil	12/15/23	12/19/23	Glass Jar, 2 oz.
SW3-2'	E312127-04A	Soil	12/15/23	12/19/23	Glass Jar, 2 oz.
SW4-4'	E312127-05A	Soil	12/15/23	12/19/23	Glass Jar, 2 oz.
SW5-6'	E312127-06A	Soil	12/15/23	12/19/23	Glass Jar, 2 oz.
SW6-2'	E312127-07A	Soil	12/15/23	12/19/23	Glass Jar, 2 oz.
SW7-2'	E312127-08A	Soil	12/15/23	12/19/23	Glass Jar, 2 oz.

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/20/2023 4:52:33PM

SP8-8'

E312127-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2351042
Benzene	ND	0.0250	1	12/19/23	12/20/23	
Ethylbenzene	ND	0.0250	1	12/19/23	12/20/23	
Toluene	ND	0.0250	1	12/19/23	12/20/23	
o-Xylene	ND	0.0250	1	12/19/23	12/20/23	
p,m-Xylene	ND	0.0500	1	12/19/23	12/20/23	
Total Xylenes	ND	0.0250	1	12/19/23	12/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*12/19/23*	*12/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2351042
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/23	12/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.4 %*	*70-130*	*12/19/23*	*12/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2351041
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/23	12/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/23	12/19/23	
Surrogate: n-Nonane		*101 %*	*50-200*	*12/19/23*	*12/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2351045
Chloride	ND	20.0	1	12/19/23	12/20/23	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/20/2023 4:52:33PM

SW1-3'

E312127-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2351042
Benzene	ND	0.0250	1	12/19/23	12/20/23	
Ethylbenzene	ND	0.0250	1	12/19/23	12/20/23	
Toluene	ND	0.0250	1	12/19/23	12/20/23	
o-Xylene	ND	0.0250	1	12/19/23	12/20/23	
p,m-Xylene	ND	0.0500	1	12/19/23	12/20/23	
Total Xylenes	ND	0.0250	1	12/19/23	12/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.5 %*	*70-130*	*12/19/23*	*12/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2351042
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/23	12/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*12/19/23*	*12/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2351041
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/23	12/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/23	12/19/23	
Surrogate: n-Nonane		*103 %*	*50-200*	*12/19/23*	*12/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2351045
Chloride	**248**	20.0	1	12/19/23	12/20/23	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/20/2023 4:52:33PM

SW2-2'

E312127-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2351042
Benzene	ND	0.0250	1	12/19/23	12/20/23	
Ethylbenzene	ND	0.0250	1	12/19/23	12/20/23	
Toluene	ND	0.0250	1	12/19/23	12/20/23	
o-Xylene	ND	0.0250	1	12/19/23	12/20/23	
p,m-Xylene	ND	0.0500	1	12/19/23	12/20/23	
Total Xylenes	ND	0.0250	1	12/19/23	12/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*12/19/23*	*12/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2351042
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/23	12/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.7 %*	*70-130*	*12/19/23*	*12/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2351041
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/23	12/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/23	12/19/23	
Surrogate: n-Nonane		*101 %*	*50-200*	*12/19/23*	*12/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2351045
Chloride	ND	20.0	1	12/19/23	12/20/23	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/20/2023 4:52:33PM

SW3-2'

E312127-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2351042
Benzene	ND	0.0250	1	12/19/23	12/20/23	
Ethylbenzene	ND	0.0250	1	12/19/23	12/20/23	
Toluene	ND	0.0250	1	12/19/23	12/20/23	
o-Xylene	ND	0.0250	1	12/19/23	12/20/23	
p,m-Xylene	ND	0.0500	1	12/19/23	12/20/23	
Total Xylenes	ND	0.0250	1	12/19/23	12/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*12/19/23*	*12/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2351042
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/23	12/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*	*70-130*	*12/19/23*	*12/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2351041
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/23	12/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/23	12/19/23	
Surrogate: n-Nonane		*104 %*	*50-200*	*12/19/23*	*12/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2351045
Chloride	**222**	20.0	1	12/19/23	12/20/23	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/20/2023 4:52:33PM

SW4-4'

E312127-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2351042
Benzene	ND	0.0250	1	12/19/23	12/20/23	
Ethylbenzene	ND	0.0250	1	12/19/23	12/20/23	
Toluene	ND	0.0250	1	12/19/23	12/20/23	
o-Xylene	ND	0.0250	1	12/19/23	12/20/23	
p,m-Xylene	ND	0.0500	1	12/19/23	12/20/23	
Total Xylenes	ND	0.0250	1	12/19/23	12/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.7 %*	*70-130*	*12/19/23*	*12/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2351042
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/23	12/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*12/19/23*	*12/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2351041
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/23	12/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/23	12/19/23	
Surrogate: n-Nonane		*104 %*	*50-200*	*12/19/23*	*12/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2351045
Chloride	**229**	20.0	1	12/19/23	12/20/23	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/20/2023 4:52:33PM

SW5-6'

E312127-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2351042
Benzene	ND	0.0250	1	12/19/23	12/20/23	
Ethylbenzene	ND	0.0250	1	12/19/23	12/20/23	
Toluene	ND	0.0250	1	12/19/23	12/20/23	
o-Xylene	ND	0.0250	1	12/19/23	12/20/23	
p,m-Xylene	ND	0.0500	1	12/19/23	12/20/23	
Total Xylenes	ND	0.0250	1	12/19/23	12/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*	*70-130*	*12/19/23*	*12/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2351042
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/23	12/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*12/19/23*	*12/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2351041
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/23	12/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/23	12/19/23	
Surrogate: n-Nonane		*105 %*	*50-200*	*12/19/23*	*12/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2351045
Chloride	ND	20.0	1	12/19/23	12/20/23	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/20/2023 4:52:33PM

SW6-2'

E312127-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2351042
Benzene	ND	0.0250	1	12/19/23	12/20/23	
Ethylbenzene	ND	0.0250	1	12/19/23	12/20/23	
Toluene	ND	0.0250	1	12/19/23	12/20/23	
o-Xylene	ND	0.0250	1	12/19/23	12/20/23	
p,m-Xylene	ND	0.0500	1	12/19/23	12/20/23	
Total Xylenes	ND	0.0250	1	12/19/23	12/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.7 %*	*70-130*	*12/19/23*	*12/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2351042
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/23	12/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.3 %*	*70-130*	*12/19/23*	*12/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2351041
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/23	12/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/23	12/19/23	
Surrogate: n-Nonane		*101 %*	*50-200*	*12/19/23*	*12/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2351045
Chloride	**224**	20.0	1	12/19/23	12/20/23	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/20/2023 4:52:33PM

SW7-2'

E312127-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2351042
Benzene	ND	0.0250	1	12/19/23	12/20/23	
Ethylbenzene	ND	0.0250	1	12/19/23	12/20/23	
Toluene	ND	0.0250	1	12/19/23	12/20/23	
o-Xylene	ND	0.0250	1	12/19/23	12/20/23	
p,m-Xylene	ND	0.0500	1	12/19/23	12/20/23	
Total Xylenes	ND	0.0250	1	12/19/23	12/20/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*12/19/23*	*12/20/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2351042
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/19/23	12/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*	*70-130*	*12/19/23*	*12/20/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2351041
Diesel Range Organics (C10-C28)	ND	25.0	1	12/19/23	12/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/19/23	12/19/23	
Surrogate: n-Nonane		*104 %*	*50-200*	*12/19/23*	*12/19/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2351045
Chloride	ND	20.0	1	12/19/23	12/20/23	

QC Summary Data

Tap Rock	Project Name:	Jackson Unit 29	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/20/2023 4:52:33PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2351042-BLK1)									Prepared: 12/19/23 Analyzed: 12/20/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.54*		*8.00*		*94.2*	*70-130*			
LCS (2351042-BS1)									Prepared: 12/19/23 Analyzed: 12/20/23
Benzene	4.73	0.0250	5.00		94.7	70-130			
Ethylbenzene	4.66	0.0250	5.00		93.1	70-130			
Toluene	4.72	0.0250	5.00		94.4	70-130			
o-Xylene	4.67	0.0250	5.00		93.5	70-130			
p,m-Xylene	9.48	0.0500	10.0		94.8	70-130			
Total Xylenes	14.2	0.0250	15.0		94.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.51*		*8.00*		*93.9*	*70-130*			
Matrix Spike (2351042-MS1)				**Source: E312119-45**					Prepared: 12/19/23 Analyzed: 12/20/23
Benzene	4.69	0.0250	5.00	ND	93.9	54-133			
Ethylbenzene	4.61	0.0250	5.00	ND	92.2	61-133			
Toluene	4.68	0.0250	5.00	ND	93.7	61-130			
o-Xylene	4.66	0.0250	5.00	ND	93.3	63-131			
p,m-Xylene	9.40	0.0500	10.0	ND	94.0	63-131			
Total Xylenes	14.1	0.0250	15.0	ND	93.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.56*		*8.00*		*94.4*	*70-130*			
Matrix Spike Dup (2351042-MSD1)				**Source: E312119-45**					Prepared: 12/19/23 Analyzed: 12/20/23
Benzene	4.81	0.0250	5.00	ND	96.1	54-133	2.37	20	
Ethylbenzene	4.74	0.0250	5.00	ND	94.8	61-133	2.77	20	
Toluene	4.79	0.0250	5.00	ND	95.7	61-130	2.16	20	
o-Xylene	4.75	0.0250	5.00	ND	94.9	63-131	1.74	20	
p,m-Xylene	9.65	0.0500	10.0	ND	96.5	63-131	2.59	20	
Total Xylenes	14.4	0.0250	15.0	ND	96.0	63-131	2.31	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.52*		*8.00*		*93.9*	*70-130*			

QC Summary Data

Tap Rock	Project Name:	Jackson Unit 29	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/20/2023 4:52:33PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2351042-BLK1)									Prepared: 12/19/23 Analyzed: 12/20/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.24*		*8.00*		*90.5*	*70-130*			
LCS (2351042-BS2)									Prepared: 12/19/23 Analyzed: 12/20/23
Gasoline Range Organics (C6-C10)	44.8	20.0	50.0		89.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.43*		*8.00*		*92.9*	*70-130*			
Matrix Spike (2351042-MS2)				**Source: E312119-45**					Prepared: 12/19/23 Analyzed: 12/20/23
Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.37*		*8.00*		*92.1*	*70-130*			
Matrix Spike Dup (2351042-MSD2)				**Source: E312119-45**					Prepared: 12/19/23 Analyzed: 12/20/23
Gasoline Range Organics (C6-C10)	44.6	20.0	50.0	ND	89.3	70-130	3.50	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.30*		*8.00*		*91.2*	*70-130*			

QC Summary Data

Tap Rock	Project Name:	Jackson Unit 29	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/20/2023 4:52:33PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2351041-BLK1)									Prepared: 12/19/23 Analyzed: 12/19/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*52.3*		*50.0*		*105*	*50-200*			
LCS (2351041-BS1)									Prepared: 12/19/23 Analyzed: 12/19/23
Diesel Range Organics (C10-C28)	274	25.0	250		110	38-132			
Surrogate: n-Nonane	*51.5*		*50.0*		*103*	*50-200*			
Matrix Spike (2351041-MS1)				**Source: E312127-04**					Prepared: 12/19/23 Analyzed: 12/19/23
Diesel Range Organics (C10-C28)	306	25.0	250	ND	122	38-132			
Surrogate: n-Nonane	*54.3*		*50.0*		*109*	*50-200*			
Matrix Spike Dup (2351041-MSD1)				**Source: E312127-04**					Prepared: 12/19/23 Analyzed: 12/19/23
Diesel Range Organics (C10-C28)	306	25.0	250	ND	122	38-132	0.00977	20	
Surrogate: n-Nonane	*53.9*		*50.0*		*108*	*50-200*			

QC Summary Data

Tap Rock	Project Name:	Jackson Unit 29	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/20/2023 4:52:33PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2351045-BLK1)									Prepared: 12/19/23 Analyzed: 12/20/23
Chloride	ND	20.0							
LCS (2351045-BS1)									Prepared: 12/19/23 Analyzed: 12/20/23
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2351045-MS1)				**Source: E312127-01**					Prepared: 12/19/23 Analyzed: 12/20/23
Chloride	257	20.0	250	ND	103	80-120			
Matrix Spike Dup (2351045-MSD1)				**Source: E312127-01**					Prepared: 12/19/23 Analyzed: 12/20/23
Chloride	264	20.0	250	ND	106	80-120	2.79	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

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/20/23 16:52

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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

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

Project Information

Chain of Custody

Client: Top Rock
Project: Jackson Unit 29.
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# E312127 Job Number 20040-0001

TAT: 1D | 2D (4) | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM (6) | CO | UT | AZ | TX

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

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	BGDOC NM	BGDOC TX	Remarks
	12/15/23	S.	1	SW8-8'	1	6		
				SW1-3'	2			
				SW2-2'	3			
				SW3-2'	4			
				SW4-4'	5			
				SW5-6'	6			
				SW6-2'	7			
	12/15/23	S.	1	SW7-2'	8	0		

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jose R Alvarez	12-15-23		Michelle Gaylor	12-18-23	1321
Michelle Gaylor	12-18-23	1700	Andrew Muñoz	12.19.23	1900
Andrew Muñoz	12.19.23	2400	[illegible]	12.19.23	730

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

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

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 12/19/2023 8:03:21AM

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:	Tap Rock	Date Received:	12/19/23 07:30	Work Order ID:	E312127
Phone:	(575) 390-6397	Date Logged In:	12/18/23 15:25	Logged In By:	Jordan Montano
Email:	natalie@energystaffingllc.com	Due Date:	12/20/23 17:00 (1 day TAT)		

Chain of Custody (COC)

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

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Time sampled not provided on COC per client.

Project manager not listed on COC per client.

Client Instruction

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

Date

envirotech Inc.

JACKSON UNIT #029H

DELINEATION PHOTOS


12/14/2023 11:11
+32.196356, -103.574438
Altitude 1079.1meter
Speed 2.0km/h
Taprock
Jackson 29H
Delineation


12/14/2023 11:09
Taprock
Jackson 29H
Delineation


12/14/2023 11:08
Taprock
Jackson 29H
Delineation


Taprock
Jackson 29H
Delineation


12/12/2023 14:36
+32.196442,-103.574328
Altitude:1078.7meter
Speed:0.0km/h
Taprock
Jackson 29H
Delineation


12/12/2023 14:26
+32.196448,-103.574425
Altitude:1078.9meter
Speed:2.8km/h
Taprock
Jackson 29H
Delineation


DEERE
12/12/2023 14:26
+32.196448,-103.574425
Altitude:1078.5meter
Speed:2.1km/h
Taprock
Jackson 29H
Delineation


Delineation


Altitude:1077.7meter
Tanrock
Jackson 29H
Delineation


BADGER
12/8/2023 09:12
+32.196451,-103.574358
Altitude:1078.3meter
Speed:0.7km/h
Tanrock
Jackson 29H
Line exposure
Hydrovac


12/8/2023 09:11
+32.196451,-103.574258
Altitude:1078.5meter
Speed:3.2km/h
Taprock
Jackson 29H
Line exposure
Hydrovac


12/8/2023 09:11
+32.196405,-103.574247
Altitude:1078.0meter
Speed:3.8km/h
Taprock
Jackson 29H
Line exposure
Hydrovac


12/8/2023 09:
+32.196405,-103.57424
Altitude:1079.0meter
Speed:2.6km/h
Taprock
Jackson 29H
Line exposure
Hydrovac


12/8/2023 09:11
+32.196405,-103.574247
Altitude:1078.9meter
Speed:2.7km/h
Taprock
Jackson 29H
Line exposure
Hydrovac

Natalie Gladden

From: Natalie Gladden
Sent: Wednesday, December 20, 2023 10:52 AM
To: Velez, Nelson, EMNRD; ocdonline, emnrd, EMNRD; Bratcher, Michael, EMNRD; SLO Spills
Cc: Brittney Corral; 'Bill Ramsey'
Subject: RE: [EXTERNAL] TAPROCK EXTENSION REQUEST FOR JACKSON UNIT 29H

Importance: High

Tracking:

Recipient	Read
Velez, Nelson, EMNRD	
ocdonline, emnrd, EMNRD	
Bratcher, Michael, EMNRD	
SLO Spills	
Brittney Corral	Read: 12/20/2023 10:56 AM
'Bill Ramsey'	

Nelson,

ESS is has continued to work on the remediation for the Jackson Unit 29H, we are nearing the composite phase of the project and need another extension. As seen below our remediation due date is 1/2/24 and we are trying to get this done by then but not sure if we will meet the deadline.

Let me know if you need anything else from me?

Natalie Gladden
Director of Environmental and Regulatory Services
Energy Staffing Services, LLC.
2724 NW County Road
Hobbs, NM 88240
Cell: 575-390-6397
Office: 575-393-9048
Email: natalie@energystaffingllc.com

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Wednesday, October 25, 2023 7:30 AM
To: Natalie Gladden <natalie@energystaffingllc.com>; ocdonline, emnrd, EMNRD <emnrd.ocdonline@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; SLO Spills <spills@slo.state.nm.us>
Cc: Brittney Corral <brittney@energystaffingllc.com>; Christian Combs <ccombs@taprk.com>
Subject: Re: [EXTERNAL] TAPROCK EXTENSION REQUEST FOR JACKSON UNIT 29H

Good morning Natalie,

Your 60-day time extension request is approved. Remediation Due date updated to January 2, 2024.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv

Environmental Bureau | EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

(505) 469-6146 | nelson.velez@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/

Brittney Corral

From: Natalie Gladden
Sent: Monday, June 17, 2024 2:50 PM
To: Brittney Corral
Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 297663

Natalie Gladden
Director of Environmental and Regulatory Services
Energy Staffing Services, LLC.
2724 NW County Road
Hobbs, NM 88240
Cell: 575-390-6397
Office: 575-393-9048
Email: natalie@energystaffingllc.com

From: Natalie Gladden
Sent: Wednesday, December 27, 2023 8:18 AM
To: Brittney Corral <brittney@energystaffingllc.com>
Cc: Brittney Corral <brittney@energystaffingllc.com>
Subject: FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 297663

JACKSON 29 COMPOSITE REQUEST

Natalie Gladden
Director of Environmental and Regulatory Services
Energy Staffing Services, LLC.
2724 NW County Road
Hobbs, NM 88240
Cell: 575-390-6397
Office: 575-393-9048
Email: natalie@energystaffingllc.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, December 27, 2023 8:17 AM
To: Natalie Gladden <natalie@energystaffingllc.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 297663

To whom it may concern (c/o Natalie Gladden for TAP ROCK OPERATING, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2322234733.

The sampling event is expected to take place:

When: 01/02/2024 @ 08:00
Where: O-21-24S-33E 0 FNL 0 FEL (32.19642,-103.574113)

Additional Information: PLEASE CONTACT NATALIE GLADDEN AT 575-390-6397 OR AT NATALIE@ENERGYSTAFFINGLLC.COM

Additional Instructions: 32.19642 -103.574113

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: TAP ROCK **Location Name:** JACKSON 29H **Release Date:**

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil
SPCOMP1	2	160	L	ND	ND	30.4	ND	30.4	225	
SPCOMP2	2	240	L	ND	ND	ND	ND	ND	ND	
SPCOMP3	6	240	L	ND	ND	34.4	ND	34.4	212	
SPCOMP4	6	160	L	ND	ND	28.9	ND	28.9	210	
SPCOMP5	6	240	L	ND	ND	ND	ND	ND	ND	
SWCOMP1	2	240	L	ND	ND	ND	ND	ND	ND	
SWCOMP2	2	160	L	ND	ND	ND	ND	ND	223	
SWCOMP3	2	160	L	ND	ND	ND	ND	ND	ND	
SWCOMP4	6	240	L	ND	ND	ND	ND	ND	ND	
SWCOMP5	6	160	L	ND	ND	ND	ND	ND	213	
SWCOMP6	2	240	L	ND	ND	ND	ND	ND	208	

TAP ROCK OPERATING

JACKSON 29H

Legend

- COMP
- COMP
- COMP
- COMP 3
- Taprock. Jackson 29H\u2026composite GEO measure 889 sq. ft.

COMP 1

COMP 2

COMP 3

COMP 4

COMP 5

Google Earth

Image © 2024 Airbus

N

30 ft

COMPANY: TAP ROCK

LOCATION: JACKSON UNIT #029H

POINT	LATITUDE	LONGITUDE
C1	32.196446	-103.574415
C2	32.196448	-103.574368
C3	32.196419	-103.574385
C4	32.196385	-103.574372
C5	32.19636	-103.574368

TAP ROCK

JACKSON UNIT #29H
SIDEWALL COMPOSITE MAP

Legend
- EXCAVATION AREA
- SIDEWALL COMPOSITES

SWC6
SWC1
SWC5
SWC2
SWC4
SWC3

N

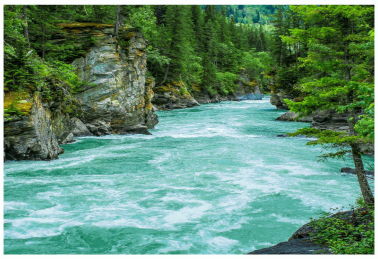
40 ft

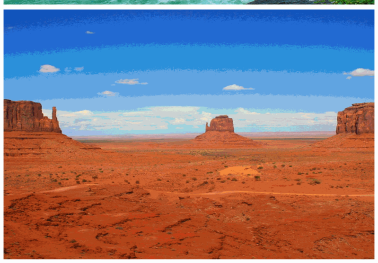
COMPANY: TAP ROCK **LOCATION:** JACKSON UNIT #29H

POINT	LATITUDE	LONGITUDE
CSW1	32.196475°	-103.574345°
CSW2	32.196414°	-103.574350°
CSW3	32.196355°	-103.574349°
CSW4	32.196354°	-103.574391°
CSW5	32.196413°	-103.574402°
CSW6	32.196463°	-103.574437°

Report to:

Natalie Gladden





5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Tap Rock

Project Name: Jackson Unit 29

Work Order: E401013

Job Number: 20046-0001

Received: 1/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/9/24

Date Reported: 1/9/24

Natalie Gladden
7 W. Compress Road
Artesia, NM 88210

Project Name: Jackson Unit 29
Workorder: E401013
Date Received: 1/7/2024 3:30:00PM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/7/2024 3:30:00PM, under the Project Name: Jackson Unit 29.

The analytical test results summarized in this report with the Project Name: Jackson Unit 29 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
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Client Representative
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Tap Rock	Project Name:	Jackson Unit 29	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	01/09/24 14:15

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP Comp 1-2'	E401013-01A	Soil	01/02/24	01/07/24	Glass Jar, 2 oz.
SP Comp 2-2'	E401013-02A	Soil	01/02/24	01/07/24	Glass Jar, 2 oz.
SP Comp 3-6'	E401013-03A	Soil	01/02/24	01/07/24	Glass Jar, 2 oz.
SP Comp 4-6'	E401013-04A	Soil	01/02/24	01/07/24	Glass Jar, 2 oz.
SP Comp 5-6'	E401013-05A	Soil	01/02/24	01/07/24	Glass Jar, 2 oz.
SW Comp 1-2'	E401013-06A	Soil	01/02/24	01/07/24	Glass Jar, 2 oz.
SW Comp 2-2'	E401013-07A	Soil	01/02/24	01/07/24	Glass Jar, 2 oz.
SW Comp 3-2'	E401013-08A	Soil	01/02/24	01/07/24	Glass Jar, 2 oz.
SW Comp 4-6'	E401013-09A	Soil	01/02/24	01/07/24	Glass Jar, 2 oz.
SW Comp 5-6'	E401013-10A	Soil	01/02/24	01/07/24	Glass Jar, 2 oz.
SW Com 6-2'	E401013-11A	Soil	01/02/24	01/07/24	Glass Jar, 2 oz.

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:15:33PM

SP Comp 1-2'

E401013-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.2 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402007
Diesel Range Organics (C10-C28)	**30.4**	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*72.7 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402004
Chloride	**225**	20.0	1	01/08/24	01/08/24	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:15:33PM

SP Comp 2-2'

E401013-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.9 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.9 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402007
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*97.1 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402004
Chloride	ND	20.0	1	01/08/24	01/08/24	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:15:33PM

SP Comp 3-6'

E401013-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.5 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.0 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402007
Diesel Range Organics (C10-C28)	**34.4**	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*96.6 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402004
Chloride	**212**	20.0	1	01/08/24	01/08/24	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:15:33PM

SP Comp 4-6'

E401013-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*93.7 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.6 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402007
Diesel Range Organics (C10-C28)	**28.9**	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*88.9 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402004
Chloride	**210**	20.0	1	01/08/24	01/08/24	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:15:33PM

SP Comp 5-6'

E401013-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.8 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402007
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*92.6 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402004
Chloride	ND	20.0	1	01/08/24	01/08/24	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:15:33PM

SW Comp 1-2'

E401013-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.3 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.3 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402007
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*90.8 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402004
Chloride	ND	20.0	1	01/08/24	01/08/24	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:15:33PM

SW Comp 2-2'

E401013-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.8 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402007
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*85.7 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402004
Chloride	**223**	20.0	1	01/08/24	01/08/24	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:15:33PM

SW Comp 3-2'

E401013-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.7 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402007
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*88.0 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402004
Chloride	ND	20.0	1	01/08/24	01/08/24	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:15:33PM

SW Comp 4-6'

E401013-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*95.6 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.9 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402007
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*88.2 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402004
Chloride	ND	20.0	1	01/08/24	01/08/24	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:15:33PM

SW Comp 5-6'

E401013-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.6 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.8 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402007
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*88.4 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402004
Chloride	**213**	20.0	1	01/08/24	01/08/24	

Sample Data

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:15:33PM

SW Com 6-2'

E401013-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Benzene	ND	0.0250	1	01/08/24	01/08/24	
Ethylbenzene	ND	0.0250	1	01/08/24	01/08/24	
Toluene	ND	0.0250	1	01/08/24	01/08/24	
o-Xylene	ND	0.0250	1	01/08/24	01/08/24	
p,m-Xylene	ND	0.0500	1	01/08/24	01/08/24	
Total Xylenes	ND	0.0250	1	01/08/24	01/08/24	
Surrogate: 4-Bromochlorobenzene-PID		*96.1 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: EG			Batch: 2402001
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/08/24	01/08/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*01/08/24*	*01/08/24*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2402007
Diesel Range Organics (C10-C28)	ND	25.0	1	01/08/24	01/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	01/08/24	01/08/24	
Surrogate: n-Nonane		*87.4 %*	*50-200*	*01/08/24*	*01/08/24*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2402004
Chloride	**208**	20.0	1	01/08/24	01/08/24	

QC Summary Data

Tap Rock	Project Name:	Jackson Unit 29	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:15:33PM

Volatile Organics by EPA 8021B

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2402001-BLK1)									Prepared: 01/08/24 Analyzed: 01/08/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.49*		*8.00*		*93.7*	*70-130*			
LCS (2402001-BS1)									Prepared: 01/08/24 Analyzed: 01/08/24
Benzene	5.02	0.0250	5.00		100	70-130			
Ethylbenzene	5.00	0.0250	5.00		100	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
o-Xylene	5.00	0.0250	5.00		100	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.57*		*8.00*		*94.6*	*70-130*			
Matrix Spike (2402001-MS1)				**Source: E401013-01**					Prepared: 01/08/24 Analyzed: 01/08/24
Benzene	4.94	0.0250	5.00	ND	98.9	54-133			
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	61-133			
Toluene	4.96	0.0250	5.00	ND	99.3	61-130			
o-Xylene	4.92	0.0250	5.00	ND	98.3	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.52*		*8.00*		*94.0*	*70-130*			
Matrix Spike Dup (2402001-MSD1)				**Source: E401013-01**					Prepared: 01/08/24 Analyzed: 01/08/24
Benzene	4.97	0.0250	5.00	ND	99.4	54-133	0.514	20	
Ethylbenzene	4.96	0.0250	5.00	ND	99.2	61-133	0.942	20	
Toluene	4.99	0.0250	5.00	ND	99.8	61-130	0.552	20	
o-Xylene	4.97	0.0250	5.00	ND	99.4	63-131	1.08	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	0.905	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	0.963	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.64*		*8.00*		*95.4*	*70-130*			

QC Summary Data

Tap Rock	Project Name:	Jackson Unit 29	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:15:33PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2402001-BLK1)									Prepared: 01/08/24 Analyzed: 01/08/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.93*		*8.00*		*99.1*	*70-130*			
LCS (2402001-BS2)									Prepared: 01/08/24 Analyzed: 01/08/24
Gasoline Range Organics (C6-C10)	54.0	20.0	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.84*		*8.00*		*98.0*	*70-130*			
Matrix Spike (2402001-MS2)				**Source: E401013-01**					Prepared: 01/08/24 Analyzed: 01/08/24
Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	ND	105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.81*		*8.00*		*97.6*	*70-130*			
Matrix Spike Dup (2402001-MSD2)				**Source: E401013-01**					Prepared: 01/08/24 Analyzed: 01/08/24
Gasoline Range Organics (C6-C10)	50.0	20.0	50.0	ND	100	70-130	4.68	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.85*		*8.00*		*98.1*	*70-130*			

QC Summary Data

Tap Rock	Project Name:	Jackson Unit 29	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:15:33PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2402007-BLK1)									Prepared: 01/08/24 Analyzed: 01/08/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*48.1*		*50.0*		*96.1*	*50-200*			
LCS (2402007-BS1)									Prepared: 01/08/24 Analyzed: 01/08/24
Diesel Range Organics (C10-C28)	269	25.0	250		108	38-132			
Surrogate: n-Nonane	*47.3*		*50.0*		*94.6*	*50-200*			
LCS Dup (2402007-BSD1)									Prepared: 01/08/24 Analyzed: 01/08/24
Diesel Range Organics (C10-C28)	274	25.0	250		110	38-132	1.84	20	
Surrogate: n-Nonane	*48.1*		*50.0*		*96.2*	*50-200*			

QC Summary Data

Tap Rock	Project Name:	Jackson Unit 29	**Reported:**
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	1/9/2024 2:15:33PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2402004-BLK1)									Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	ND	20.0							
LCS (2402004-BS1)									Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	249	20.0	250		99.4	90-110			
Matrix Spike (2402004-MS1)				**Source: E401013-06**					Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	257	20.0	250	ND	103	80-120			
Matrix Spike Dup (2402004-MSD1)				**Source: E401013-06**					Prepared: 01/08/24 Analyzed: 01/08/24
Chloride	254	20.0	250	ND	102	80-120	0.980	20	

QC Summary 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

Tap Rock	Project Name:	Jackson Unit 29	
7 W. Compress Road	Project Number:	20046-0001	**Reported:**
Artesia NM, 88210	Project Manager:	Natalie Gladden	01/09/24 14:15

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: Top Rock.
Project: Jackson Unit 29.
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# E401013 | Job Number 20046000 1

TAT: 1D | 2D ✓ | 3D | Standard

EPA Program: CWA | SDWA | RCRA

State: NM ✓ | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX			Remarks
		S.	1	SP Comp 1-2'	1									✓.				
	1/2/24.			SP Comp 2-2'	2													
				SP Comp 3-6'	3													
				SP Comp 4-6'	4													
				SP Comp 5-6'	5													
				SW Comp 1-2'	6													
				SW Comp 2-2'	7													
				SW Comp 3-2'	8													
				SW Comp 4-6'	9													
	1/2/24	S	1	SW Comp 5-6'	10									✓				

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jose R Alvarez	1/2/24.		Michelle Gonzales	1-4-24	1245
Michelle Gonzales	1-5-24	1600	Andrew Musso	1-5-24	1700
Andrew Musso	1-5-24	2300	Irene Figgi	01/07/24	15:30

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4.0

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

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Project Information

Chain of Custody

Client: Tor Rock.	**Bill To**
Project: Jackson Unit 29	Attention: ENERGY STAFFING SERVICES
Project Manager:	Address: 2724 NW COUNTY RD
Address:	City, State, Zip HOBBS, NM 88240
City, State, Zip	Phone: 575-393-9048
Phone:	Email: NATALIE@ENERGYSTAFFINGLLC.COM
Email:	BRITTNEY@ENERGYSTAFFINGLLC.COM
Report due by:	

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E401013	2004160001		✓				
							RCRA

State: NM ✓ | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM	BGDOC TX			Remarks
	1/2/24.	S.	1	SW COM 6-2'	11									✓				

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jose R Alvarez	1/2/2024.		Michelle Gonzales	1-4-24	1245
Michelle Gonzales	1-5-24	1600	Andrew Alonso	1-5-24	1700
Andrew Alonso	1-5-24	2300	[signature]	01/07/24	15:30

Lab Use Only

Received on ice: (Y) / N

T1 ______ T2 ______ T3 ______

AVG Temp °C 4.0

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

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech

Envirotech Analytical Laboratory

Printed: 1/8/2024 2:10:38PM

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:	Tap Rock	Date Received:	01/07/24 15:30	Work Order ID:	E401013
Phone:	(575) 390-6397	Date Logged In:	01/05/24 10:27	Logged In By:	Jordan Montano
Email:	natalie@energystaffingllc.com	Due Date:	01/08/24 17:00 (0 day TAT)		

Chain of Custody (COC)

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

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	No	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Time sampled not provided on COC per client.

Project manager not listed on COC. Natalie Gladden.

Client Instruction

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

Date

envirotech Inc.

JACKSON UNIT #029H

EXCAVATION PHOTOS


12/28/2023 14:39
-103.574415
Altitude:1076.4meter
Speed:2.9km/h
Taprock
29H


12/28/2023 14:39
+32.196424,-103.574415
Altitude:1076.3meter
Speed:1.7km/h
Taprock
Jackson 29H


12/28/2023 14:39
+32.196424,-103.574415
Altitude:1076.3meter
Speed:1.7km/h
Taprock
Jackson 29H


12/28/2023 14:39
+32.196424,-103.574415
Altitude:1076.6meter
Speed:2.1km/h
Taprock
Jackson 29H


Taprock
Jackson 29H

JACKSON UNIT #029H

FINAL PHOTOS


1/29/2024 10:19
+32.196271,-103.574514
Altitude:1077.6meter
Speed:3.0km/h
Taprock
Jackson 29H
Final pics


1/29/2024 10:20
+32.196479,-103.574543
Altitude:1078.4meter
Speed:0.3km/h
Taprock
Jackson 29H
Final pics


1/29/2024 10:19
+32.196271,-103.574514
Altitude:1077.6meter
Speed:3.0km/h
Taprock
Jackson 29H
Final pics


1/29/2024 10:19
+32.196245,-103.574277
Altitude:1078.7meter
Speed:2.3km/h
Taprock
Jackson 29H
Final pics


1/29/2024 10:18
+32.196391,-103.574096
Altitude:1079.0meter
Speed:2.9km/h
Taprock
Jackson 29H
Final pics


1/29/2024 10:19
+32.196245,-103.574277
Altitude:1078.7meter
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1/29/2024 10:20
+32.196479,-103.574543
Altitude:1078.4meter
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Taprock
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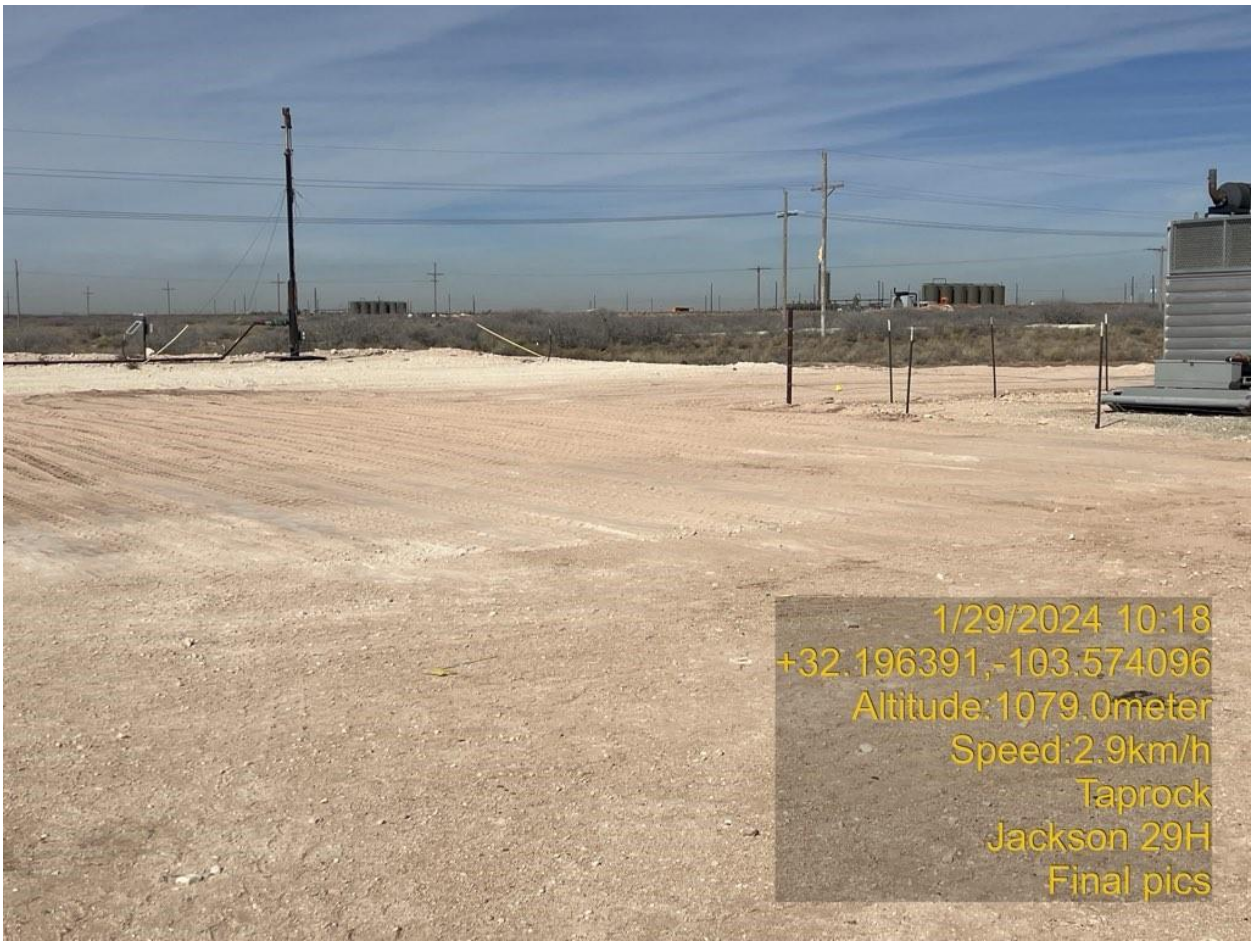
1/29/2024 10:18
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Altitude:1079.0meter
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QUESTIONS

Action 361085

QUESTIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 361085
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2322234733**
Incident Name	**NAPP2322234733 JACKSON UNIT #029H @ 30-025-41767**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-025-41767] JACKSON UNIT #029H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	JACKSON UNIT #029H
Date Release Discovered	08/04/2023
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Corrosion | Flow Line - Production | Produced Water | Released: 23 BBL | Recovered: 0 BBL | Lost: 23 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 361085
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Natalie Gladden Title: Environmental Email: natalie@energystaffingllc.com Date: 07/03/2024

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QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 361085
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 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	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	6580
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	78200
GRO+DRO (EPA SW-846 Method 8015M)	57032
BTEX (EPA SW-846 Method 8021B or 8260B)	31.5
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	12/10/2023
On what date will (or did) the final sampling or liner inspection occur	01/02/2024
On what date will (or was) the remediation complete(d)	01/29/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	2000
What is the estimated volume (in cubic yards) that will be remediated	132
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 361085
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	OWL LANDFILL JAL [fJEG1635837366]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*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: 07/03/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 361085
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 361085
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**297663**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**01/02/2024**
What was the (estimated) number of samples that were to be gathered	**9**
What was the sampling surface area in square feet	**900**

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	2000
What was the total volume (cubic yards) remediated	132
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	2000
What was the total volume (in cubic yards) reclaimed	132
Summarize any additional remediation activities not included by answers (above)	Spill was on the production pad only.

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: 07/03/2024

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QUESTIONS (continued)

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 361085
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 361085

CONDITIONS

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	Action Number: 361085
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	8/19/2024