

Incident ID	NAPP2129151549
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*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?	<u>&lt;50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist: Each of the following items must be included in the report.**

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141

State of New Mexico  
Oil Conservation Division

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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 REGULATORYSignature:  Date: 1/30/22email: natalie@energystaffingllc.comTelephone: 575-390-6397**OCD Only**Received by: Ramona MarcusDate: 2/9/2022

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## Closure

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 (electronic submittals in .pdf format are preferred) 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.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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.

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


Signature:  Date: 1/50/22

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

### OCD Only

Received by: Ramona Marcus Date: 2/9/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 02/22/2022

Printed Name: Chad Hensley Title: Environmental Specialist Advanced



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**JACKSON UNIT #029H  
CLOSURE REQUEST**

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**API NO. 30-025-41767  
LEGALS: U/L O, SECTION 21, TOWNSHIP 24S, RANGE 33E  
LEA COUNTY, NM 88240**

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**DATE OF RELEASE: 10/15/2021  
INCIDENT NO. NAPP2129151549**

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**January 29, 2022**

**PREPARED BY:**



**2724 NW COUNTY ROAD  
HOBBS, NM 88240  
575-393-9048**

January 29, 2022

New Mexico Energy, Minerals & Natural Resources  
NMOCD District I  
C/O Mike Bratcher, Robert Hamlet & Chad Hensley  
1625 N. French Drive  
Hobbs, NM 88240

Tap Rock Operating, LLC  
C/O Christian Combs  
523 Park Point Drive  
Golden, CO 80401

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

**API No. 30-025-41767**

**Incident ID No. NAPP2129151549**

**Unit Letter O, Section 21, Township 24 South, Range 33 East  
Lea County, New Mexico**

To Whom it May Concern:

Tap Rock Operating, has retained Energy Staffing Services (ESS), to conduct a spill assessment, delineation and remediation for the Jackson Unit #029H (hereafter referred to as the “Jackson”) for the produced water release that occurred on October 15<sup>th</sup>, 2021. ESS provided the immediate notification of the release to the New Mexico Oil Conservation Division (NMOCD), District I office, via email on October 18<sup>th</sup>, 2021 at 12:58 a.m. (notification attached). On behalf of Tap Rock Operating, ESS also submitted the initial C141 Release Notification, along with the spill calculator form used to determine the volume of the release (attached) on October 18<sup>th</sup>, 2021. The NMOCD accepted the initial C141 as record on same said date and assigned the NMOCD Incident ID Number of NAPP2129151549 to this release (Attached).

This report provided a detailed description of the spill assessment, delineation and remedial activities conducted at the Jackson and demonstrates 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 October 15<sup>th</sup>, 2021 at approximately 7:56 a.m., a release was found at the Jackson and occurred due to a nearby frac, causing frac sand to plug up the equipment and lines, sending the fluid into the flare. The fluid sprayed the pad area only and puddled around the base of the flare. Immediately Tap Rock personnel dispatched out a vacuum truck to recover the standing fluids.

ESS was notified immediately to conduct a full site assessment of the release. Upon arrival, the spill area was mapped out and initial photos of the release were obtained. The recovery of the fluids was inspected and verified. With using the square footage of the release and volumes recovered, Tap Rocks lost production was entered into the Spill Calculator Worksheet. An approximate total of 7.05bbls of produced water was released and 3bbls of produced water was recovered via vacuum truck. The area of impact was measured as 7,518 sq. ft.

## Site Characterization

The release at the Jackson occurred on state land and is located at, latitude 32.19642 and longitude -103.574113, 27.5 miles northwest of Jal, New Mexico. The legal description for the site is Unit Letter O, Section 21, Township 24 South and Range 33 East, in Lea County, New Mexico. The well was permitted as the Jackson Unit #029H. Please see the site map attached herein.

The Jackson consists of oil and gas production equipment, of which the well sits on an active well and production facility pad. The elevation of this said pad sits at 3,719ft. This area historically, has been primarily dominated by little bluestem, sand bluestem, spike dropseed, other shrubs and perennial forbs. (Please see the attached Rangeland and Vegetation Classification information attached),

The *United States Department of Agriculture Natural Resources Conservation Services*, indicates that the soil type found in the area of the Jackson, consists of 100% Pyote and Maljamar fine sands. (Soil Map Attached). In the area of the Jackson the *FEMA National Flood Hazard Layer*, indicates that there is 0.2% annual chance of a flood hazard in this area (see map attached).

There is "low potential" for Karst Geology to be present near the Jackson 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. This site is not near a continuously flowing watercourse and or lakebed within ½ mile from the release. No other critical or community features at the Jackson were found. (Attached Watercourse Map).

The nearest and most recent water well to the site according to the *New Mexico Office of the State Engineer* is C 04339 POD1, which is located 2,134' from the site and was drilled in 2019. The well was drilled to 47' but does not have any viable groundwater information. C 04339 POD8 is located 2,196' from the site and was drilled in 2019, depth of the well is documented to be 30'bgs, but does not have viable groundwater information. C 04339 POD7, is 2,264' from the site, drilled in 2019 to a depth of 43'bgs but again does not have any viable groundwater data. The closest well with viable groundwater information that is documented belongs to C 03662 POD1, located 3,227' from the site, drilled to 550'bgs, with groundwater depth of 110'bgs. An extended groundwater search was conducted using the *OSE POD Location Mapping System* and it has been determined that, no well exist within a ½ a mile radius of the Jackson 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 below chart. No groundwater data was found within a ½ a mile radius from the release point, being on State Land and with having a "low karst potential, the site fell under <50' to ground water. 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 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*.

The guidance 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 air tight 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 sample 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 Evaluation**

On October 18<sup>th</sup>, ESS staff was dispatched out to the Jackson, to complete a site assessment of the release. Initial site photos were obtained and the following information was found:

- The release from the flare had sprayed from the northwest corner where the flare was located and sprayed southeast towards the production facility.
- Pooling of released fluids were only found around the base of the flare itself, leaving the remainder of the impacted area to be a spray of fluids across the production pad.
- No fluid entered any road area or surface water playa, lakes or other watercourses.
- Vac Trucks were on site to recover any and all standing fluids.
- The impacted area from the release onto the surface of the pad measured 7,518 sq. ft.
- Crews were onsite to check the flare and to shut in production until the nearby frac was complete. The equipment was cleaned out by roustabout crews as well.

Please see the initial photos of the release attached to this report.

On October 18, 2021 ESS arrived on site to begin the delineation process. A hydro-vac was dispatched out to spot all production and electrical lines in the area of impact, so that ESS crews could safely delineate the site. On November 1<sup>st</sup>, ESS crews began the delineation process by setting the sample points in the impacted area, surface samples were obtained and field tested. A total of 17 sample points and 12 sidewalls were placed, mapped and GPS'd. The surface samples that were obtained, were field tested and submitted to Envirotech Laboratories. Below you will find the confirmed surface sample analysis:

SP ID	Depth	Titre	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
SP1	SURF	14800	TPH	ND	ND	121	119	240	12600
SP2	SURF	54000	TPH	ND	ND	642	452	1094	52900
SP3	SURF	1100	TPH	ND	ND	72.7	102	174.7	1040
SP4	SURF	24400	TPH	ND	ND	4310	2360	6670	23900
SP5	SURF	40000	TPH	ND	ND	994	647	1641	37300
SP6	SURF	30200	TPH	ND	ND	1080	700	1780	28500
SP7	SURF	1840	TPH	ND	ND	4410	4080	8490	1560
SP8	SURF	13000	TPH	ND	ND	980	650	1630	12600
SP9	SURF	42200	TPH	ND	ND	179	182	361	40000
SP10	SURF	10800	TPH	ND	ND	2070	1810	3880	10100
SP11	SURF	19000	TPH	ND	ND	171	150	321	18600
SP12	SURF	6080	TPH	ND	ND	6800	4650	11450	6080
SP13	SURF	6300	TPH	ND	ND	4100	2960	7060	6300
SP14	SURF	10000	TPH	ND	ND	5760	5320	11080	9770
SP15	SURF	6280	TPH	ND	ND	3940	3270	7210	6110
SP16	SURF	3400	TPH	ND	ND	1180	795	1975	3380
SP17	SURF	40	TPH	ND	ND	12900	7570	20470	ND

On November 2<sup>nd</sup>, ESS crews began to fully delineate the site both vertically and horizontally, by use of hand auger and by backhoe. Samples were obtained and field tested. Once the bottom hole samples were clear of contaminants, samples were jarred and submitted to the lab for analysis. Attached to this report you will locate the complete sample data along with confirmed lab analysis. Below, please find the vertical delineation field data along with the confirmed lab analysis:

SP ID	Depth	Titre	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
SP1	2'	40	ND	ND	ND	ND	ND	ND	ND
SP2	2'	20	ND	ND	ND	ND	ND	ND	ND
SP3	2'	60	ND	ND	ND	ND	ND	ND	42.3
SP4	2'	100	ND	ND	ND	ND	ND	ND	75
SP5	2'	40	ND	ND	ND	ND	ND	ND	40
SP6	2'	20	ND	ND	ND	ND	ND	ND	20

SP7	2'	20	ND	ND	ND	ND	ND	ND	20
SP8	2'	40	ND	ND	ND	ND	ND	ND	ND
SP9	2'	60	ND	ND	ND	ND	ND	ND	46.9
SP10	2'	80	ND	ND	ND	ND	ND	ND	55.6
SP11	2'	80	ND	ND	ND	ND	ND	ND	66
SP12	2'	80	ND	ND	ND	ND	ND	ND	62.4
SP13	2'	80	ND	ND	ND	ND	ND	ND	65.1
SP14	2'	80	ND	ND	ND	48.4	ND	48.4	67
SP15	2'	60	ND	ND	ND	ND	ND	ND	57.5
SP16	3'	80	ND	ND	ND	26.8	ND	26.8	56.1
SP17	3'	20	ND	ND	ND	74.4	58.8	133.2	ND

Horizontal samples were then obtained, field tested and submitted to the lab for confirmation. Please see the horizontal data lab analysis below:

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
SW1	SURF	80	TPH	ND	ND	32.6	ND	32.6	83.1
SW1	2'	40		ND	ND	ND	ND	ND	ND
SW2	SURF	800		ND	ND	ND	ND	ND	761
SW2	2'	280		ND	ND	ND	ND	ND	261
SW3	SURF	400		ND	ND	ND	ND	ND	353
SW3	2'	40		ND	ND	ND	ND	ND	29.2
SW4	SURF	1000		ND	ND	ND	ND	ND	994
SW4	2'	100		ND	ND	ND	ND	ND	88.5
SW5	SURF	400	TPH	ND	ND	23400	1760	25160	311
SW5	2'	60		ND	ND	ND	ND	ND	40
SW6	SURF	40		ND	ND	ND	ND	ND	26.9
SW6	2'	20		ND	ND	ND	ND	ND	ND
SW7	SURF	1640	TPH	ND	ND	10700	6270	16970	1500
SW7	2'	40		ND	ND	ND	ND	ND	30
SW8	SURF	60	TPH	ND	ND	92.2	166	258.2	48.7
SW8	2'	20		ND	ND	ND	ND	ND	ND
SW9	SURF	20	TPH	ND	ND	ND	62.3	62.3	ND
SW9	2'	20		ND	ND	32.9	145	177.9	ND
SW10	SURF	60		ND	ND	ND	ND	ND	58.4
SW10	4'	200		ND	ND	ND	ND	ND	171
SW11	SURF	520		ND	ND	ND	ND	ND	467
SW11	2'	180		ND	ND	ND	ND	ND	146
SW12	SURF	700		ND	ND	317	329	646	644
SW12	2'	200		ND	ND	27.3	52.2	79.8	170

In the above horizontal lab analysis, you will see that SW9 and SW12, tested above the limits for hydrocarbons. On November 4th, excavation began to 6'bgs and 2'bgs and the sidewalls were further delineated during the final stages of the remediation.

A total of 716 cubic yards of contaminated material was excavated from the impact area, stockpiled on plastic and ESS hauled the contaminated soil to Owl Disposal. Approximately 568 cubic yards of clean caliche was backhauled. Owl was unable to keep up with all of the demands in the area, therefore the remainder of the backfill was purchased from a local NGL pit. The caliche was stockpiled on an adjacent Tap Rock location.

On November 24<sup>th</sup>, 2021 an email was sent to the NMOCD for the documented notification that the composite stage was underway. ESS began to obtain five-point composites, field test, jar and submit to Envirotech Laboratories for confirmation. Below you will find the final composite sampling lab analysis data for bottom hole and sidewall composites. (Please see full sample log, attached to this report).

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
COMP 1		60		ND	ND	ND	ND	ND	47.8
COMP 2		80		ND	ND	ND	ND	ND	59.8
COMP 3		40		ND	ND	ND	ND	ND	39.2
COMP 4		80		ND	ND	ND	ND	ND	76.8
COMP 5		20		ND	ND	ND	ND	ND	ND
COMP 6		40		ND	ND	ND	ND	ND	46
COMP 7		460		ND	ND	ND	ND	ND	439
COMP 8		200		ND	ND	42	ND	42	185
COMP 9		80		ND	ND	ND	ND	ND	72.3
COMP 10		20		ND	ND	ND	ND	ND	20.5
COMP 11		200		ND	ND	ND	ND	ND	182
COMP 12		140		ND	ND	ND	ND	ND	106
COMP 13A		40		ND	ND	ND	ND	ND	31.3
COMP 14		20		ND	ND	ND	ND	ND	ND
COMP 15		100		ND	ND	ND	ND	ND	89.6
COMP 16		60		ND	ND	ND	ND	ND	32.8
COMP 17		40		ND	ND	ND	ND	ND	44.6
COMP 18		40		ND	ND	ND	ND	ND	35.9
COMP 19		60		ND	ND	ND	ND	ND	53.2
COMP 20		40		ND	ND	ND	ND	ND	39.6
COMP 21		20		ND	ND	ND	ND	ND	ND
COMP 22		40		ND	ND	ND	ND	ND	43.1
COMP 23		100		ND	ND	ND	ND	ND	86.5
COMP 24		160		ND	ND	ND	ND	ND	123
COMP 25		40		ND	ND	ND	ND	ND	46.7
COMP 26		40		ND	ND	ND	ND	ND	ND
COMP 27A		40		ND	ND	ND	ND	ND	27

COMP 28		40		ND	ND	ND	ND	ND	20.3
COMP 29		40		ND	ND	ND	ND	ND	67.3
COMP 30A		40		ND	ND	ND	ND	ND	25.7
COMP 31		40		ND	ND	ND	ND	ND	49
COMP 32A		20		ND	ND	ND	ND	ND	ND
COMP 33		100		ND	ND	ND	ND	ND	119
COMP 34		200		ND	ND	ND	ND	ND	112
COMP 35		140		ND	ND	ND	ND	ND	114
COMP 36		160		ND	ND	ND	ND	ND	148
COMP 37		140		ND	ND	51.3	ND	51.3	113
COMP 37		140		ND	ND	33.6	ND	33.6	104
COMP 38		120		ND	ND	ND	ND	ND	102
COMP 39A		40		ND	ND	ND	ND	ND	20.7

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
SW1				ND	ND	ND	ND	ND	120
SW2				ND	ND	ND	ND	ND	24
SW3				ND	ND	ND	ND	ND	26.2
SW4				ND	ND	ND	ND	ND	211
SW5				ND	ND	200	214	414	887
SW5				ND	ND	ND	ND	ND	151
SW6				ND	ND	27.2	ND	27.2	331
SW7				ND	ND	ND	ND	ND	81.7
SW8				ND	ND	74.2	72.7	146.9	1130
SW8				ND	ND	ND	ND	ND	91.2
SW9				ND	ND	66.6	56.5	123.1	910
SW9				ND	ND	ND	ND	ND	ND
SW10				ND	ND	ND	ND	ND	961
SW11				ND	ND	ND	ND	ND	140
SW12				ND	ND	43.5	ND	43.5	432

After the excavation was complete, the excavation area was remeasured and final excavation was 7,734 sq. ft. after adding Composite 38 and 39, due to sidewall concentrations. On January 10<sup>th</sup>, 2022 ESS submitted an Extension Request by email for the project as we were getting close to the 90-completion timeframe. Robert Hamlet of the NMOCD replied to the request and approved the extension to February 15<sup>th</sup>, 2022. (See email attached.)

Once ESS received the confirmed lab analysis that the full extent of the contamination was removed, backfilling of the site began. A total of 568 cy of clean backfill material was purchased, the pad was levelled and compacted. The area around the flare base, flowlines and the electrical lines were backfilled by use of shovel, so that production equipment was not compromised during the backfill process.

#### Closure Request

On behalf of Tap Rock, ESS requests that this incident (NAPP2129151549), be closed for the release that occurred on the production and facility pad of the Jackson. Tap Rock and ESS certifies that all of the information provided and that is detailed in this report, is true and correct and we 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, 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](mailto:natalie@energystaffingllc.com).

Sincerely,



**Director of Environmental and Regulatory Services**

**Energy Staffing Services, LLC.**

**2724 NW County Road**

**Hobbs, NM 88240**

**Office: 575-393-9048**

**Cell: 575-390-6397**

**Email: [natalie@energystaffingllc.com](mailto:natalie@energystaffingllc.com)**



**Attachments:**

- Spill Notification Email
- Initial C141
- Spill Calculator Sheet
- NMOCD Approved C141 Email
- Site Map
- Impact Map
- Rangeland and Vegetation Classification
- Soil Map
- Flood Map
- Karst Map
- Watercourse Map
- Groundwater Data and Groundwater Map
- OSE Groundwater Map

**Attachments Continued:**

Initial Site Photos

Delineation Map

Delineation Sample Data and Sample GPS

OCD Email – Composite Notification

Composite Sample Data and Sample GPS

Composite Map

Lab Analysis

Extension Request Email and Approval

Remediation and Final Photos

Final C141

## Natalie Gladden

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**From:** natalie@energystaffingllc.com  
**Sent:** Monday, October 18, 2021 1:59 PM  
**To:** 'ocdonline, emnrd, EMNRD'; Bratcher, Mike, EMNRD; robert.hamlet@state.nm.us; 'Hensley, Chad, EMNRD'  
**Cc:** 'Christian Combs'; 'Randy Gladden'  
**Subject:** Tap Rock - Jackson Unit #29H - DOR 10/15/21 - Spill Notification  
**Importance:** High

All,

Tap Rock had a release on the Jackson Unit #29H on 10/15/21:

API No. 30-025-41767

O-21-24S-33E, Lea County

Volume Released: 7.05bbbls of produced water

Recovered Volume: 3bbbls of produced water

All fluid stayed on location, cause of the release is due to a near by frac operation causing sand to buildup in the equipment and lines, causing fluid to release out of the flare.

The C141 and spill calculations will be uploaded shortly. If you have any questions, please let me know.

Sincerely,

*Natalie Gladden*

**Director of Environmental and Regulatory Services**

**Energy Staffing Services, LLC.**

**#7 Compress Rd**

**Artesia, NM 88210**

**Cell: 575-390-6397**

**Email: [natalie@energystaffingllc.com](mailto:natalie@energystaffingllc.com)**



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

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

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

### Location of Release Source

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

Site Name <b>JACKSON UNIT #029H</b>	Site Type <b>PRODUCTION</b>
Date Release Discovered <b>10/15/2021</b>	API# <i>(if applicable)</i> <b>30-025-41767</b>

Unit Letter	Section	Township	Range	County
<b>O</b>	<b>21</b>	<b>24S</b>	<b>33E</b>	<b>LEA</b>

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <b>7.05BBLS</b>	Volume Recovered (bbls) <b>3BBLS</b>
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release


The release occurred due to a near by frac, causing frac sand to plug up equipment and lines, sending the fluid to the flare. The fluid sprayed the location only.

Incident ID	
District RP	
Facility ID	
Application ID	

<p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>If YES, for what reason(s) does the responsible party consider this a major release?</p>
<p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p> <p><b>Email sent to NMOCD on 10/18/21 1:58pm, by Natalie Gladden w/ESS.</b></p>	

## Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Natalie Gladden</u>	Title: <u>Director of Environmental and Regulatory</u>
Signature: <u></u>	Date: <u>10-18-21</u>
email: <u>natalie@energystaffingllc.com</u>	Telephone: <u>575-390-6397</u>
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

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**District III**

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Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 56573

**QUESTIONS**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 56573
	Action Type: [NOTIFY] Notification Of Release (NOR)

**QUESTIONS**

<b>Location of Release Source</b>	
<i>Please answer all of the questions in this group.</i>	
Site Name	JACKSON UNIT #029H
Date Release Discovered	10/15/2021
Surface Owner	State

<b>Incident Details</b>	
<i>Please answer all of the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
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

<b>Nature and Volume of Release</b>	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Other   Other (Specify)   Produced Water   Released: 7 BBL   Recovered: 3 BBL   Lost: 4 BBL ]
Is the concentration of dissolved 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.
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 19.15.29.7(A) NMAC	No, minor release.
Reasons why this would be considered a submission for a notification of a major release	
If YES, was immediate notice given to the OCD, by whom	NATALIE GLADDEN - ESS
If YES, was immediate notice given to the OCD, to whom	OCD SPILL EMAIL, BRATCHER, ROBERT AND CHAD
If YES, was immediate notice given to the OCD, when	10/18/2021
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	EMAIL
<i>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.</i>	

<b>Initial Response</b>	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
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.
<i>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 prepare and attach a narrative of actions to date in the</i>	

follow-up C-141 submission. 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 prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

ACKNOWLEDGMENTS

Action 56573

**ACKNOWLEDGMENTS**

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 56573
	Action Type: [NOTIFY] Notification Of Release (NOR)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.

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**Santa Fe, NM 87505**

CONDITIONS  
  
Action 56573

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 56573
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
ngladden1	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	10/18/2021

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

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Date Release Discovered <b>10/15/2021</b>	API# <i>(if applicable)</i> <b>30-025-41767</b>

Unit Letter	Section	Township	Range	County
<b>O</b>	<b>21</b>	<b>24S</b>	<b>33E</b>	<b>LEA</b>

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <b>7.05BBLS</b>	Volume Recovered (bbls) <b>3BBLS</b>
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release


The release occurred due to a near by frac, causing frac sand to plug up equipment and lines, sending the fluid to the flare. The fluid sprayed the location only.

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)? <b>Email sent to NMOCD on 10/18/21 1:58pm, by Natalie Gladden w/ESS.</b>	

## Initial Response

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Printed Name: <u>Natalie Gladden</u>	Title: <u>Director of Environmental and Regulatory</u>
Signature: <u></u>	Date: <u>10-18-21</u>
email: <u>natalie@energystaffingllc.com</u>	Telephone: <u>575-390-6397</u>
<b><u>OCD Only</u></b>	
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
Gravelly Sand	0.26	10	10	0.083	8.3	0.38	Gravelly Sand
Fine Gravel	0.26	10	10	0.083	8.3	0.38	Fine Gravel
Medium Gravel	0.20	186.64	53	0.02	197.8384	7.05	Medium Gravel
Coarse Gravel	0.18	10	10	0.083	8.3	0.27	Coarse Gravel
Sandstone	0.25	10	10	0.083	8.3	0.37	Sandstone
Siltstone	0.18	10	10	0.083	8.3	0.27	Siltstone
Shale	0.05	10	10	0.083	8.3	0.07	Shale
Limestone	0.13	10	10	0.083	8.3	0.19	Limestone
Basalt	0.19	10	10	0.083	8.3	0.28	Basalt
Volcanic Tuff	0.20	10	10	0.083	8.3	0.30	Volcanic Tuff
Standing Liquids	X	10	10	0.083	8.3	1.48	Standing Liquids

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

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

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

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

Cubic Feet = L x W x D

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

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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CONDITIONS  
  
Action 56583

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 56583
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	1/11/2022

## Natalie Gladden

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**From:** OCDOnline@state.nm.us  
**Sent:** Monday, October 18, 2021 2:19 PM  
**To:** natalie@energystaffingllc.com  
**Subject:** The Oil Conservation Division (OCD) has accepted the application, Application ID: 56573

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#) nAPP2129151549, 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 nAPP2129151549, 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

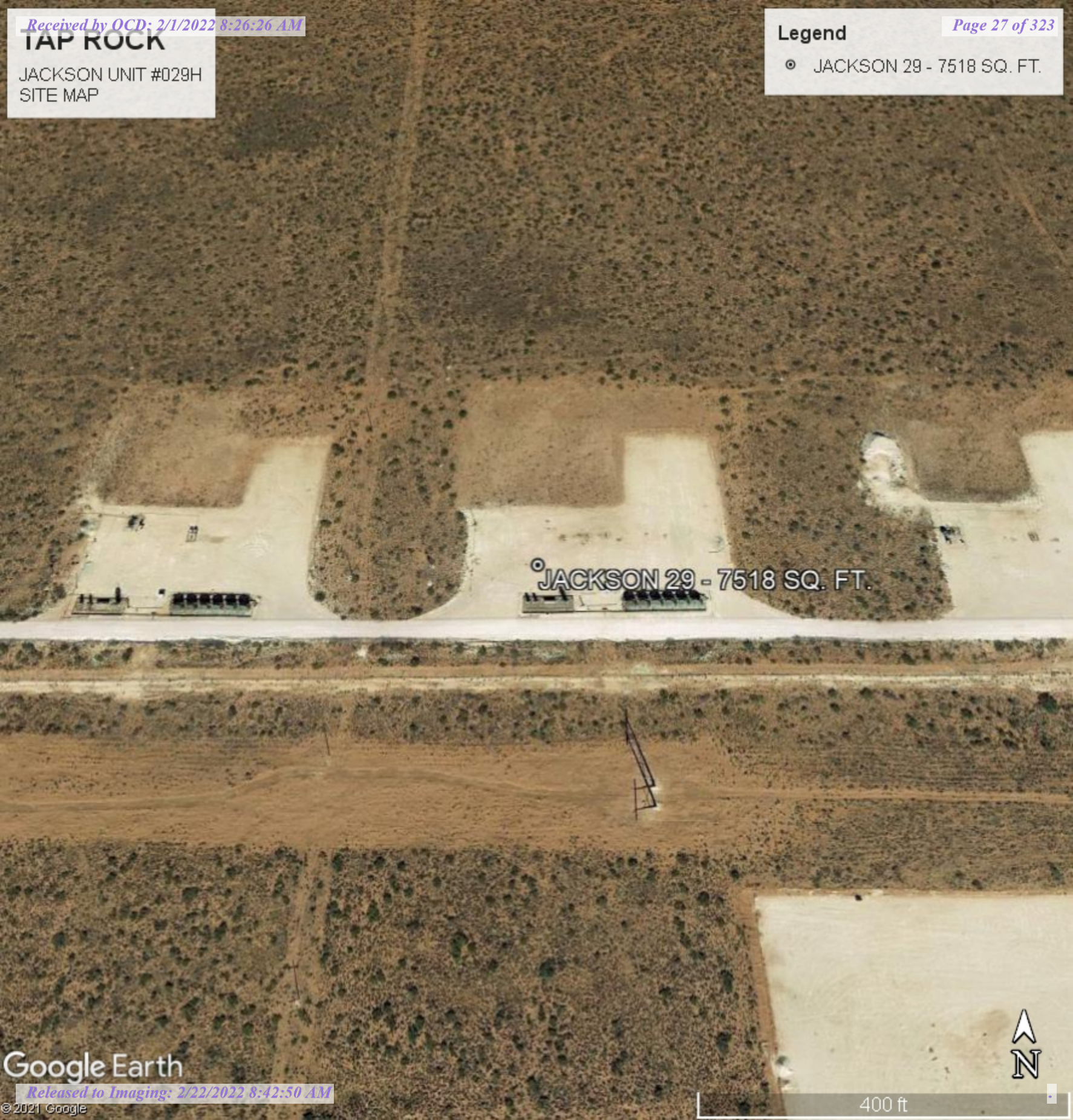
**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

# TAP ROCK

JACKSON UNIT #029H  
SITE MAP

## Legend

⊙ JACKSON 29 - 7518 SQ. FT.



**TAP ROCK**

JACKSON 29

**Legend**

- JACKSON 29 RELEASE 10/15/21
- JACKSON UNIT 29H - 7518 SQ. FT.



° JACKSON 29 - 7518 SQ. FT.



100 ft

## 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
		<i>Lb/ac</i>	<i>Lb/ac</i>	<i>Lb/ac</i>		<i>Pct dry wt</i>	<i>Pct dry wt</i>	
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 (R042XC003NM)	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 (R042XC003NM)	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		
 <b>Natural Resources Conservation Service</b>				Web Soil Survey National Cooperative Soil Survey	other shrubs	5		1/29/2022 Page 5 of 6
					sand sagebrush	5		

## Data Source Information

Soil Survey Area: Lea County, New Mexico  
Survey Area Data: Version 18, Sep 10, 2021




Soil Map—Lea County, New Mexico  
(JACKSON UNIT #029H)Natural Resources  
Conservation ServiceWeb Soil Survey  
National Cooperative Soil Survey1/29/2022  
Page 1 of 3


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 18, Sep 10, 2021

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.



Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

1/29/2022  
Page 2 of 3

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PU	Pyote and Maljamar fine sands	6.2	100.0%
<b>Totals for Area of Interest</b>		<b>6.2</b>	<b>100.0%</b>

# National Flood Hazard Layer FIRMMette



103°34'46"W 32°12'2"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		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 Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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 1/29/2022 at 4:25 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.

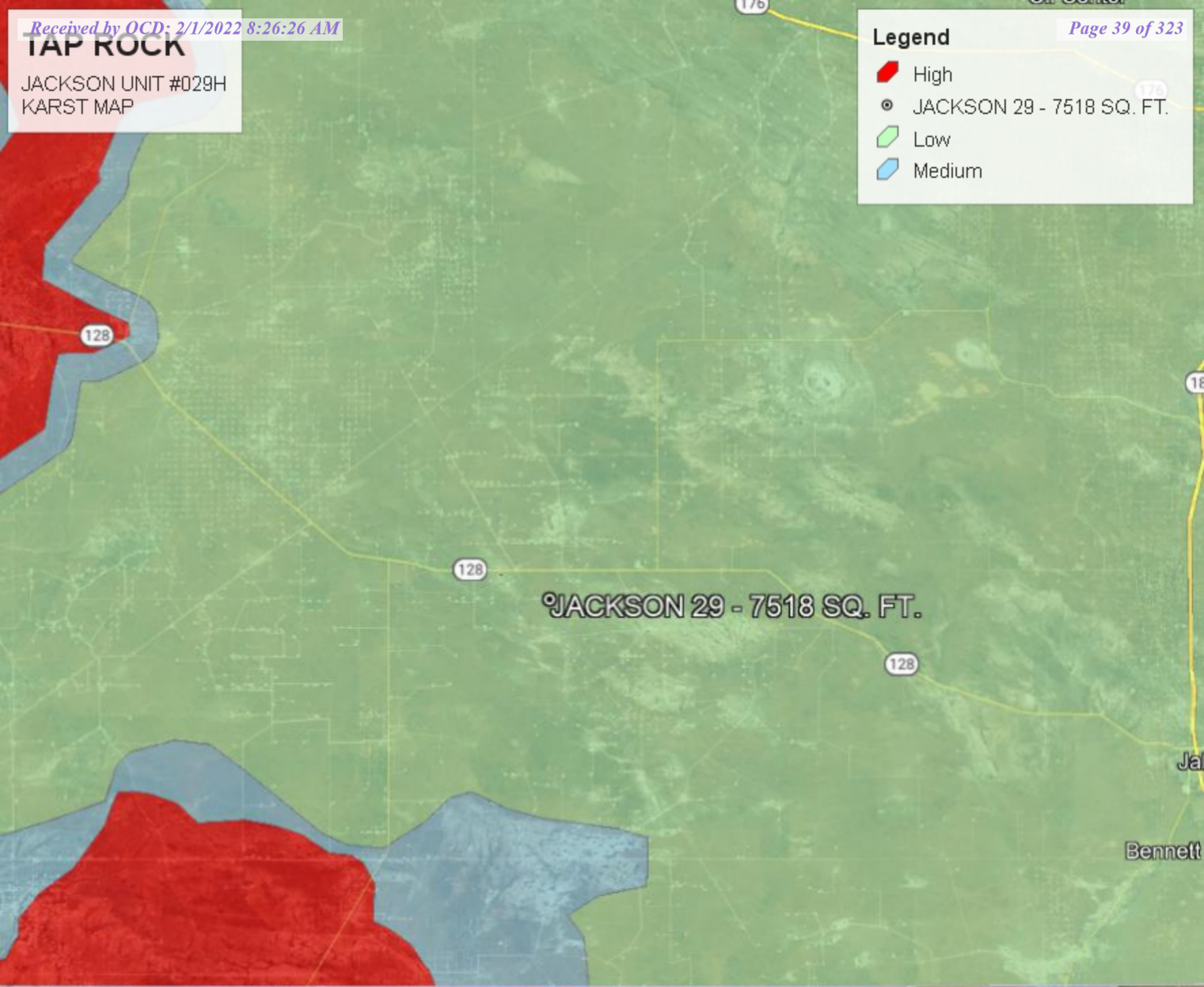
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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

# TAP ROCK

JACKSON UNIT #029H  
KARST MAP

## Legend

- High
- JACKSON 29 - 7518 SQ. FT.
- Low
- Medium



Google Earth



10 mi

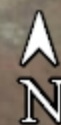
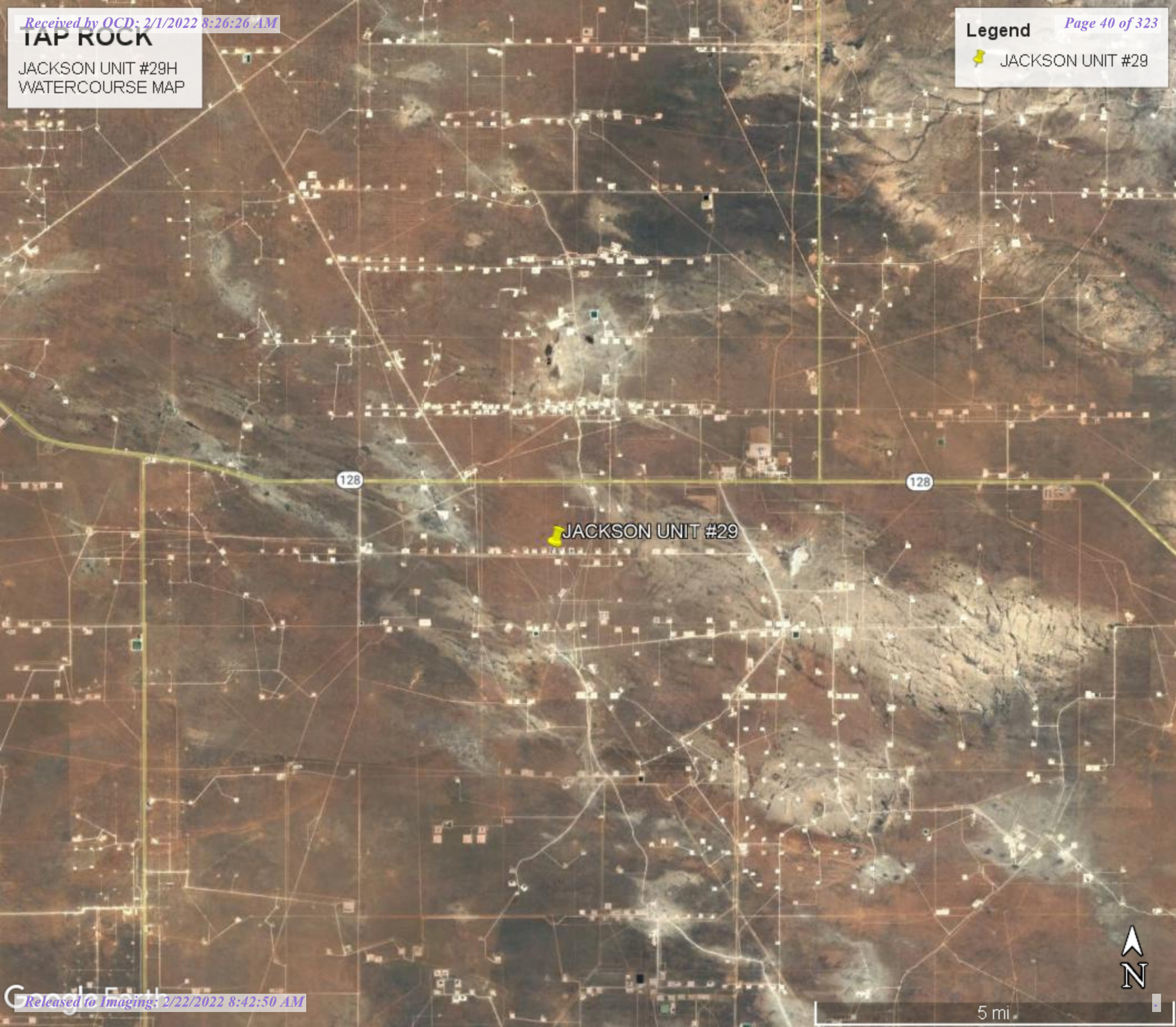
# TAP ROCK

JACKSON UNIT #29H  
WATERCOURSE MAP

## Legend



JACKSON UNIT #29



5 mi



## New Mexico Office of the State Engineer

# Wells with Well Log Information

No wells found.

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 634400.78

**Northing (Y):** 3563098.9

**Radius:** 1000

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

10/18/21 2:53 PM

WELLS WITH WELL LOG INFORMATION



# New Mexico Office of the State Engineer

## Wells with Well Log Information

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

(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	Code	Subbasin	County	Source	q 64	q 16	q 4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number	
<a href="#">C 04339 POD1</a>		CUB	LE		1	3	3	23	24S	33E	636525	3563309	<div></div>	2134	08/01/2019	08/02/2019	08/22/2019	47		CURRIE, SHANEG..TY"ENER	1575
<a href="#">C 04339 POD8</a>		CUB	LE		1	1	3	23	24S	33E	636519	3563681	<div></div>	2196	07/31/2019	07/31/2019	08/22/2019	30		CURRIE, SHANEG..TY"ENER	1575
<a href="#">C 04339 POD7</a>		CUB	LE		4	4	2	23	24S	33E	636473	3564011	<div></div>	2264	07/31/2019	07/31/2019	08/22/2019	43		CURRIE, SHANEG..TY"ENER	1575
<a href="#">C 03600 POD4</a>		CUB	LE	Shallow	3	3	1	26	24S	33E	636617	3562293	<div></div>	2358	01/08/2013	01/08/2013	01/30/2013			RODNEY HAMMER	1186
<a href="#">C 04339 POD2</a>		CUB	LE		2	3	3	23	24S	33E	636789	3563315	<div></div>	2398	08/06/2019	08/06/2019	08/22/2019			CURRIE, SHANEG..TY"ENER	1575
<a href="#">C 03600 POD7</a>		CUB	LE	Shallow	3	1	3	26	24S	33E	636726	3561968	<div></div>	2585	01/08/2013	01/09/2013	01/30/2013			RODNEY HAMMER	1186
<a href="#">C 03565 POD8</a>		CUB	LE		4	1	15	24S	33E	635485	3565610	<div></div>	2735			04/02/2013					
<a href="#">C 03565 POD9</a>		CUB	LE		4	4	15	24S	33E	636430	3565005	<div></div>	2784			04/02/2013					
<a href="#">C 03600 POD1</a>		CUB	LE	Shallow	2	2	1	26	24S	33E	637275	3563023	<div></div>	2875	01/07/2013	01/07/2013	01/30/2013			RODNEY HAMMER	1186
<a href="#">C 04339 POD3</a>		CUB	LE		2	4	3	23	24S	33E	637273	3563323	<div></div>	2881	08/06/2019	08/06/2019	08/22/2019	38		CURRIE, SHANEG..TY"ENER	1575
<a href="#">C 04339 POD4</a>		CUB	LE		2	4	3	23	24S	33E	637273	3563323	<div></div>	2881	08/06/2019	08/07/2019	08/22/2019	47		CURRIE, SHANEG..TY"ENER	1575
<a href="#">C 03600 POD6</a>		CUB	LE	Shallow	3	1	4	26	24S	33E	637383	3562026	<div></div>	3168	01/09/2013	01/09/2013	01/30/2013			RODNEY HAMMER	1186
<a href="#">C 04339 POD5</a>		CUB	LE		2	3	4	23	24S	33E	637580	3563328	<div></div>	3187	08/06/2019	08/07/2019	08/22/2019	54		CURRIE, SHANEG..TY"ENER	1575
<a href="#">C 03603 POD3</a>		CUB	LE	Shallow	4	1	1	35	24S	33E	636890	3561092	<div></div>	3196	01/13/2013	01/13/2013	01/30/2013			RODNEY HAMMER	1186
<a href="#">C 04339 POD6</a>		CUB	LE		3	1	2	23	24S	33E	637340	3564386	<div></div>	3209	07/31/2019	07/31/2019	08/22/2019	60		CURRIE, SHANEG..TY"ENER	1575
<a href="#">C 03662 POD1</a>		C	LE	Shallow	3	1	2	23	24S	33E	637342	3564428	<div></div>	3227	08/19/2013	08/20/2013	09/16/2013	550	110	JOHN SIRMAN	1654
<a href="#">C 03603 POD5</a>		CUB	LE	Shallow	3	3	2	35	24S	33E	636745	3560767	<div></div>	3306	01/12/2013	01/13/2013	01/30/2013			RODNEY HAMMER	1186
<a href="#">C 04339 POD10</a>		CUB	LE		4	1	4	23	24S	33E	637688	3563503	<div></div>	3311	08/01/2019	08/01/2019	08/22/2019	49		CURRIE, SHANEG..TY"ENER	1575
<a href="#">C 04339 POD9</a>		CUB	LE		3	4	2	23	24S	33E	637731	3563913	<div></div>	3428	08/01/2019	08/01/2019	08/22/2019	45		CURRIE, SHANEG..TY"ENER	1575
<a href="#">C 03601 POD6</a>		CUB	LE	Shallow	1	4	4	23	24S	33E	637834	3563338	<div></div>	3441	01/05/2013	01/05/2013	01/30/2013			RODNEY HAMMER	1186
<a href="#">C 03600 POD3</a>		CUB	LE	Shallow	3	4	2	26	24S	33E	637784	3562340	<div></div>	3467	01/16/2013	01/16/2013	01/30/2013			RODNEY HAMMER	1186
<a href="#">C 03601 POD2</a>		CUB	LE	Shallow	3	2	4	23	24S	33E	637846	3563588	<div></div>	3479	01/06/2013	01/07/2013	01/30/2013			RODNEY HAMMER	1186
<a href="#">C 03603 POD6</a>		CUB	LE	Shallow	3	1	3	35	24S	33E	636749	3560447	<div></div>	3542	01/13/2013	01/13/2013	01/30/2013			RODNEY HAMMER	1186
<a href="#">C 03601 POD7</a>		CUB	LE	Shallow	4	4	4	23	24S	33E	637946	3563170	<div></div>	3546	01/05/2013	01/05/2013	01/30/2013			RODNEY HAMMER	1186
<a href="#">C 03603 POD2</a>		CUB	LE	Shallow	3	1	2	35	24S	33E	637384	3561167	<div></div>	3553	01/11/2013	01/11/2013	01/30/2013			RODNEY HAMMER	1186
<a href="#">C 03601 POD5</a>		CUB	LE	Shallow	2	4	4	23	24S	33E	637988	3563334	<div></div>	3595	01/06/2013	01/06/2013	01/30/2013			RODNEY HAMMER	1186
<a href="#">C 03600 POD5</a>		CUB	LE	Shallow	3	2	4	26	24S	33E	637857	3562020	<div></div>	3620	01/09/2013	01/09/2013	01/30/2013			RODNEY HAMMER	1186

<a href="#">C 03601 POD3</a>	CUB	LE	Shallow	1	3	3	24	24S	33E	638142	3563413	<input type="checkbox"/>	3754	01/06/2013	01/06/2013	01/30/2013	RODNEY HAMMER	1186
<a href="#">C 03601 POD1</a>	CUB	LE	Shallow	4	4	2	23	24S	33E	638124	3563937	<input type="checkbox"/>	3816	12/21/2012	12/21/2012	01/08/2013	RODNEY HAMMER	1186
<a href="#">C 03565 POD3</a>	CUB	LE		3	4	08	24S	33E		632763	3566546	<input type="checkbox"/>	3817	09/27/2012	10/21/2012	12/11/2012	1533 STEWART, PHILLIP D. (LD)	331
<a href="#">C 03603 POD1</a>	CUB	LE	Shallow	3	2	2	35	24S	33E	637805	3561225	<input type="checkbox"/>	3885	01/10/2013	01/10/2013	01/30/2013	RODNEY HAMMER	1186
<a href="#">C 03601 POD4</a>	CUB	LE	Shallow	3	3	3	24	24S	33E	638162	3561375	<input type="checkbox"/>	4137	01/03/2013	01/04/2013	01/30/2013	RODNEY HAMMER	1186
<a href="#">C 03603 POD4</a>	CUB	LE	Shallow	3	2	4	35	24S	33E	637789	3560461	<input type="checkbox"/>	4293	01/14/2013	01/14/2013	01/30/2013	RODNEY HAMMER	1186
<a href="#">C 03600 POD2</a>	CUB	LE	Shallow	4	4	1	25	24S	33E	638824	3562329	<input type="checkbox"/>	4490	01/07/2013	01/08/2013	01/30/2013	RODNEY HAMMER	1186
<a href="#">C 03602 POD2</a>	CUB	LE	Shallow	4	4	1	25	24S	33E	638824	3562329	<input type="checkbox"/>	4490	01/15/2013	01/15/2013	01/30/2013	RODNEY HAMMER	1186
<a href="#">C 03917 POD1</a>	C	LE	Shallow	4	1	3	13	24S	33E	638374	3565212	<input type="checkbox"/>	4500	03/01/2016	03/04/2016	03/11/2016	600 420 CASE KEY	1058

Record Count: 36

**UTMNAD83 Radius Search (in meters):****Easting (X):** 634400.78**Northing (Y):** 3563098.9**Radius:** 5000

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

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
WELLS WITH WELL LOG INFORMATION



# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

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

<b>Driller License:</b> 1575	<b>Driller Company:</b> CURRIE DRILLING COMPANY, INC		
<b>Driller Name:</b> CURRIE, SHANEG..TY"ENER			
<b>Drill Start Date:</b> 08/01/2019	<b>Drill Finish Date:</b> 08/02/2019	<b>Plug Date:</b> 08/02/2019	
<b>Log File Date:</b> 08/22/2019	<b>PCW Rcv Date:</b>	<b>Source:</b>	
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>	
<b>Casing Size:</b>	<b>Depth Well:</b> 47 feet	<b>Depth Water:</b>	

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

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Page 1 of 1


POD SUMMARY - C 04339 POD1



# 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 POD8	1	1	3	23	24S	33E	636519	3563681 

<b>Driller License:</b> 1575	<b>Driller Company:</b> CURRIE DRILLING COMPANY, INC		
<b>Driller Name:</b> CURRIE, SHANEG..TY"ENER			
<b>Drill Start Date:</b> 07/31/2019	<b>Drill Finish Date:</b> 07/31/2019	<b>Plug Date:</b> 07/31/2019	
<b>Log File Date:</b> 08/22/2019	<b>PCW Rcv Date:</b>	<b>Source:</b>	
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>	
<b>Casing Size:</b>	<b>Depth Well:</b> 30 feet	<b>Depth Water:</b>	

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

10/18/21 2:55 PM

Page 1 of 1


POD SUMMARY - C 04339 POD8



# 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 

<b>Driller License:</b> 1575	<b>Driller Company:</b> CURRIE DRILLING COMPANY, INC		
<b>Driller Name:</b> CURRIE, SHANEG..TY"ENER			
<b>Drill Start Date:</b> 07/31/2019	<b>Drill Finish Date:</b> 07/31/2019	<b>Plug Date:</b> 07/31/2019	
<b>Log File Date:</b> 08/22/2019	<b>PCW Rcv Date:</b>	<b>Source:</b>	
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>	
<b>Casing Size:</b>	<b>Depth Well:</b> 43 feet	<b>Depth Water:</b>	

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

10/18/21 2:56 PM





Page 1 of 1

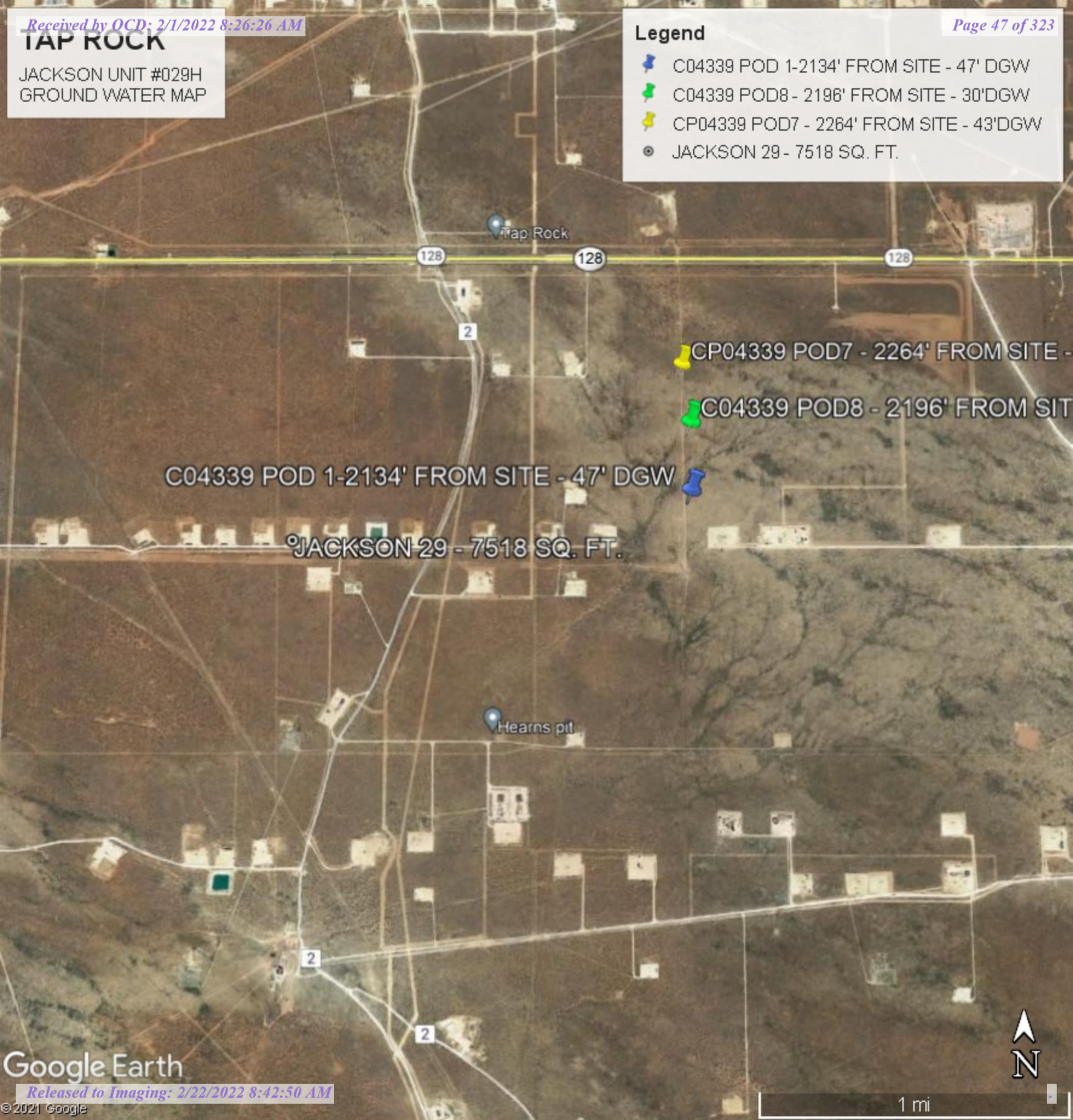
POD SUMMARY - C 04339 POD7

# TAP ROCK

JACKSON UNIT #029H  
GROUND WATER MAP

## Legend

-  C04339 POD 1-2134' FROM SITE - 47' DGW
-  C04339 POD8 - 2196' FROM SITE - 30'DGW
-  CP04339 POD7 - 2264' FROM SITE - 43'DGW
-  JACKSON 29 - 7518 SQ. FT.



# OSE POD Locations Map



1/29/2022, 3:13:23 PM

GIS WATERS PODs

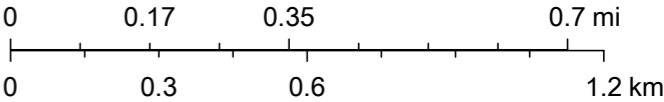
- Plugged
- Active
- Pending

- OSE District Boundary

Water Right Regulations

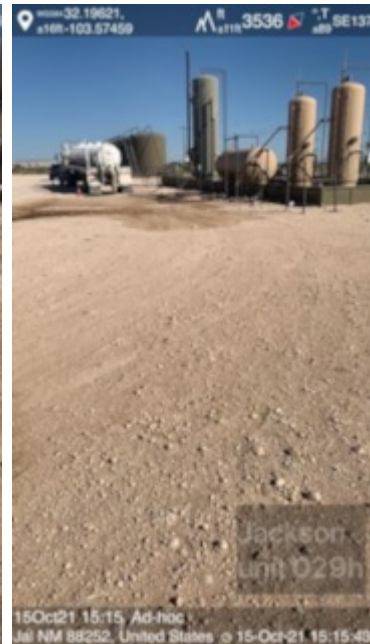
- Closure Area
- SiteBoundaries

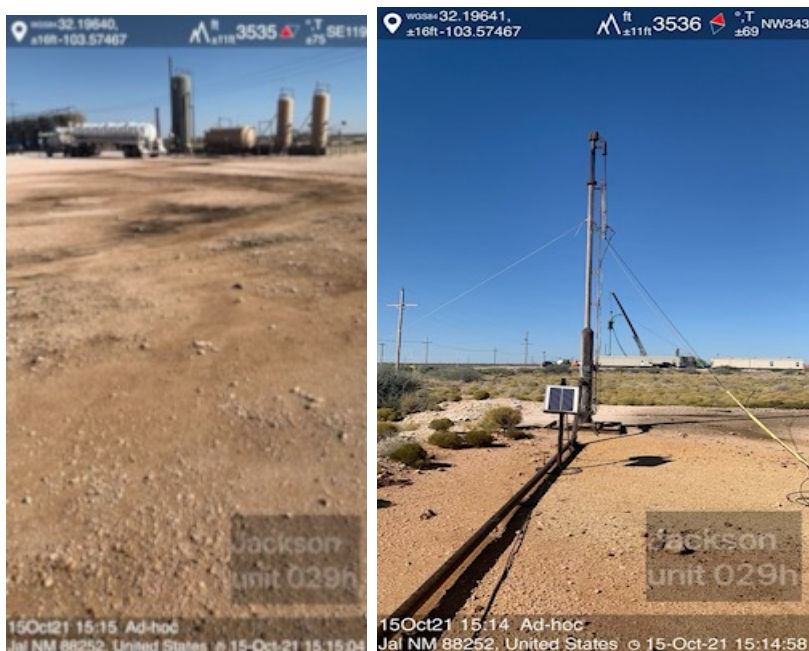
1:18,056

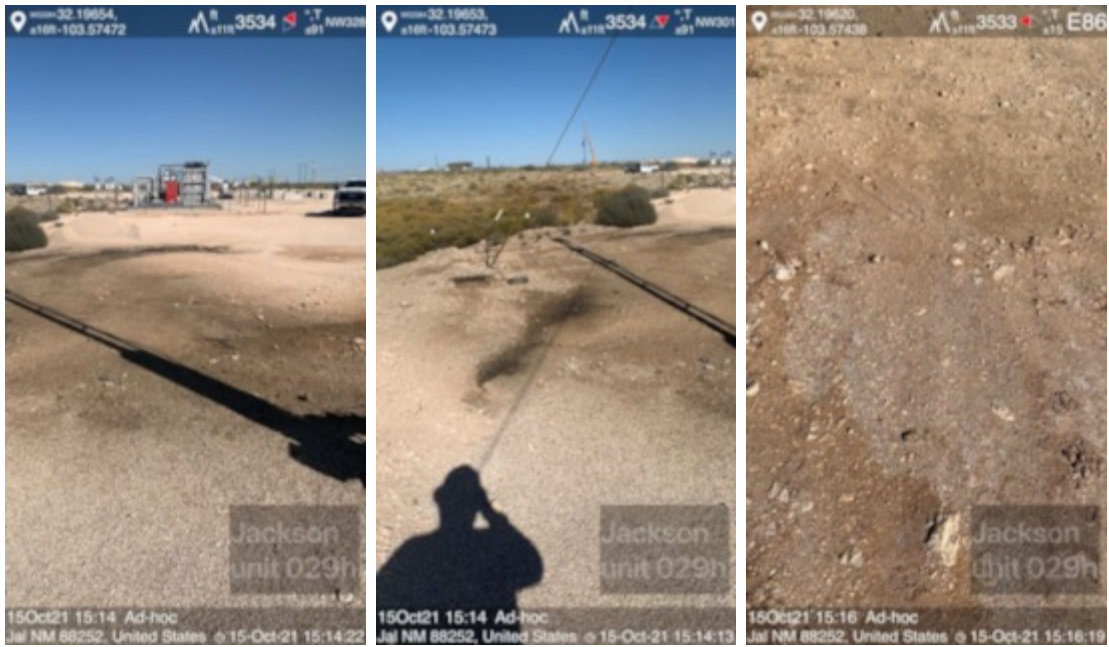


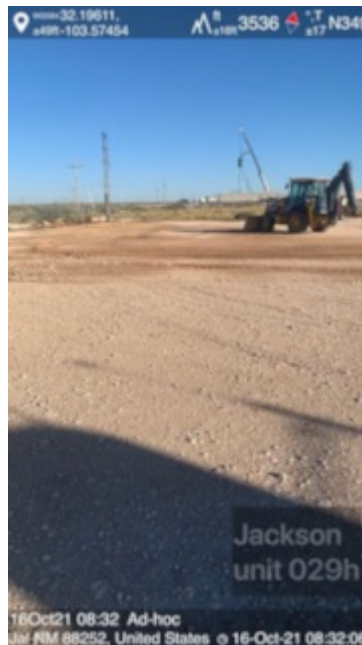
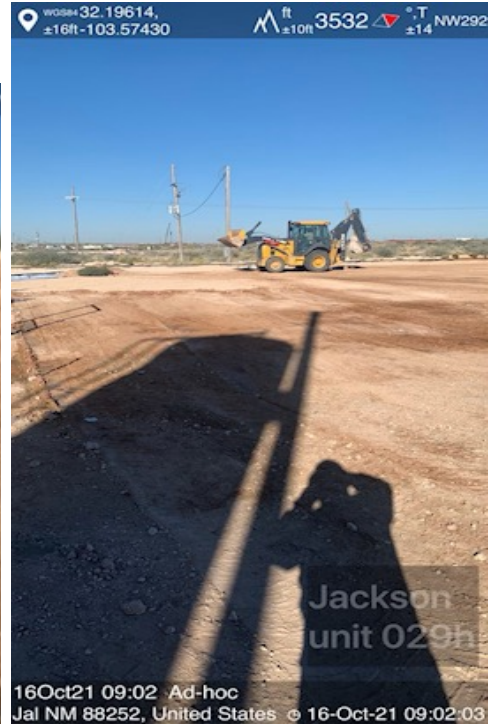
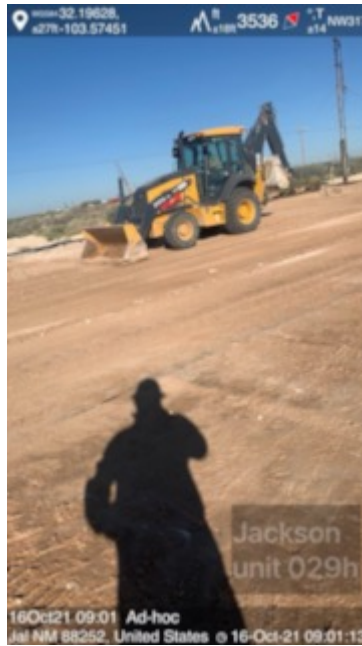
Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

# TAP ROCK JACKSON UNIT #29 INITIAL SITE PHOTOS







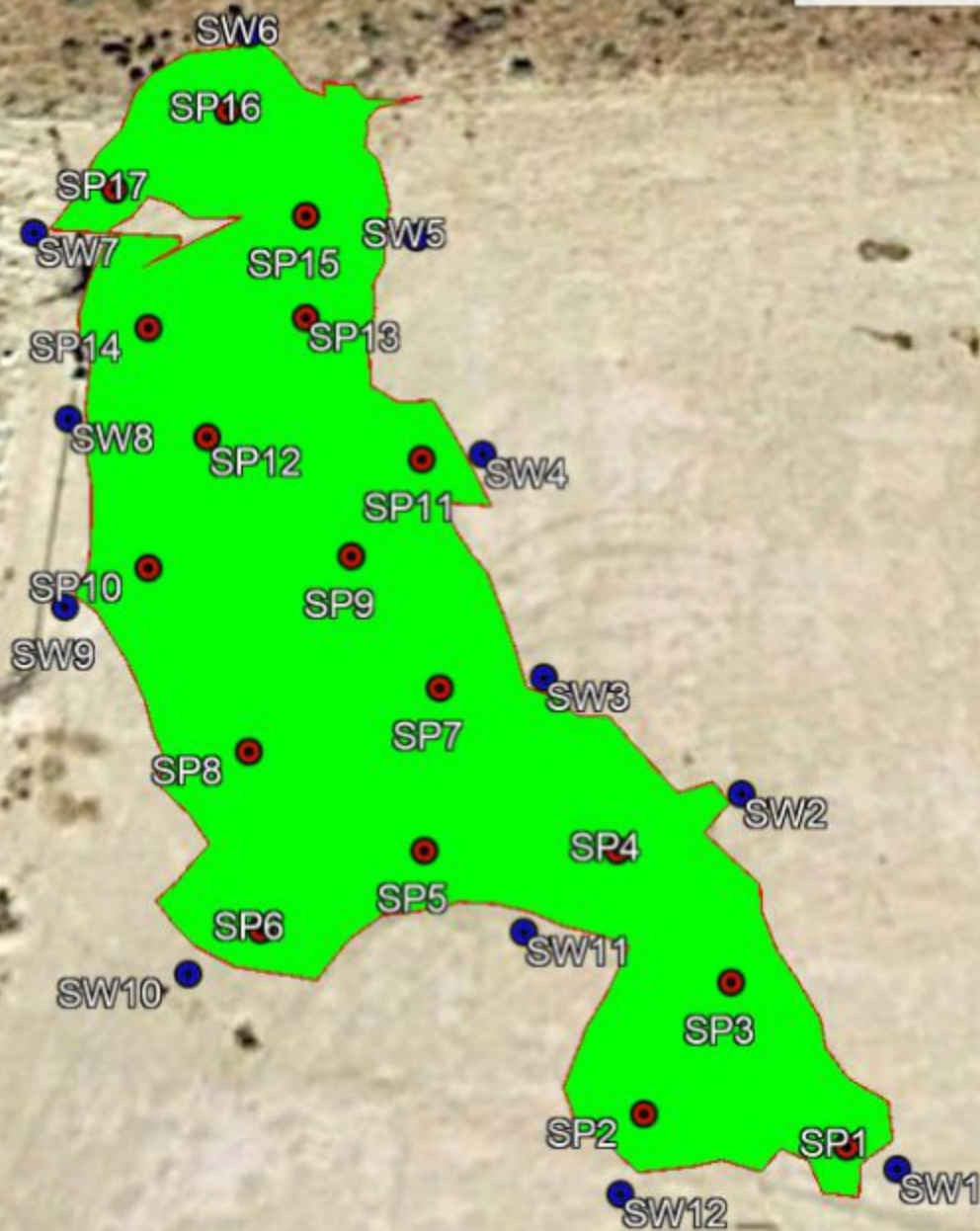


# TAP ROCK

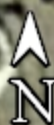
JACKSON UNIT #19  
DELINEATION SAMPLE MAP

## Legend

- HORIZONTAL SAMPLE POINTS
- JACKSON UNIT 29H - 7518 SQ. FT.
- VERTICAL SAMPLE POINTS



JACKSON UNIT #29



70 ft

Company Name: TAP ROCK Location Name: JACKSON UNIT #29 Release Date: 10/15/2021

SP ID	Depth	Titre	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil	Notes
SP1	SURF	14800	TPH	ND	ND	121	119	240	12600		
	6"	2020	TPH								
	1'	680									
	1.5'	320									
	2'	40		ND	ND	ND	ND	ND	ND		
SP2	SURF	54000	TPH	ND	ND	642	452	1094	52900		
	6"	8400	TPH								
	1'	1200	TPH								
	1.5"	580									
	2'	20		ND	ND	ND	ND	ND	ND		
SP3	SURF	1100	TPH	ND	ND	72.7	102	174.7	1040		
	6"	1000	TPH								
	1'	640									
	1.5"	320									
	2'	60		ND	ND	ND	ND	ND	42.3		
SP4	SURF	24400	TPH	ND	ND	4310	2360	6670	23900		
	6"	7600	TPH								
	1'	2200									
	1.5"	320									
	2'	100		ND	ND	ND	ND	ND	75		
SP5	SURF	40000	TPH	ND	ND	994	647	1641	37300		
	6"	10020	TPH								
	1'	1860									
	1.5"	480									
	2'	40		ND	ND	ND	ND	ND	ND		
SP6	SURF	30200	TPH	ND	ND	1080	700	1780	28500		

	6"	11200	TPH								
	1'	2000									
	1.5"	300									
	2'	20		ND	ND	ND	ND	ND	ND		
SP7	SURF	1840	TPH	ND	ND	4410	4080	8490	1560		
	6"	1600	TPH								
	1'	1040	TPH								
	1.5"	120									
	2'	20		ND	ND	ND	ND	ND	ND		
SP8	SURF	13000	TPH	ND	ND	980	650	1630	12600		
	6"	7040	TPH								
	1'	800									
	1.5"	480									
	2'	40		ND	ND	ND	ND	ND	ND		
SP9	SURF	42200	TPH	ND	ND	179	182	361	40000		
	6"	12400	TPH								
	1'	1200									
	1.5"	540									
	2'	60		ND	ND	ND	ND	ND	46.9		
SP10	SURF	10800	TPH	ND	ND	2070	1810	3880	10100		
	6"	5040	TPH								
	1'	1200	TPH								
	1.5"	400									
	2'	80		ND	ND	ND	ND	ND	55.6		
SP11	SURF	19000	TPH	ND	ND	171	150	321	18600		
	6"	10460	TPH								
	1'	2200									
	1.5"	580									
	2'	80		ND	ND	ND	ND	ND	66		

SP12	SURF	6300	TPH	ND	ND	6800	4650	11450	6080		
	6"	3200	TPH								
	1'	860									
	1.5"	420									
	2'	80		ND	ND	ND	ND	ND	62.4		

SP13	SURF	6500	TPH	ND	ND	4100	2960	7060	6300		
	6"	4420	TPH								
	1'	1240	TPH								
	1.5"	440									
	2'	80		ND	ND	ND	ND	ND	65.1		

SP14	SURF	10000	TPH	ND	ND	5760	5320	11080	9770		
	6"	5060	TPH								
	1'	1440	TPH								
	1.5"	240									
	2	80		ND	ND	48.4	ND	48.4	67		

SP15	SURF	6280	TPH	ND	ND	3940	3270	7210	6110		
	6"	3200	TPH								
	1'	1240									
	1.5"	540									
	2'	60		ND	ND	ND	ND	ND	57.5		

SP16	SURF	3400	TPH	ND	ND	1180	795	1975	3380		
	6"	1200									
	1'	980									
	1.5"	400									
	2'	80		ND	ND	26.8	ND	26.8	56.1		

SP17	SURF	40	TPH	ND	ND	12900	7570	20470	ND		
	6"	40	TPH								
	1'	1200	TPH								

	1.5"	860	TPH								
	2'	640	TPH								
	2.5"	480									
	3'	20		ND	ND	74.4	58.8	133.2	ND		
SW1	SURF	80	TPH	ND	ND	32.6	ND	32.6	83.1		
	1'	60									
	2'	40		ND	ND	ND	ND	ND	31.6		
SW2	SURF	800		ND	ND	ND	ND	ND	761		
	1'	400									
	2'	280		ND	ND	ND	ND	ND	261		
SW3	SURF	400		ND	ND	ND	ND	ND	353		
	1'	120									
	2'	40		ND	ND	ND	ND	ND	29.2		
SW4	SURF	1000		ND	ND	ND	ND	ND	994		
	1'	480									
	2'	100		ND	ND	ND	ND	ND	88.5		
SW5	SURF	400	TPH	ND	ND	23400	1760	25160	311		
	1'	100									
	2'	60		ND	ND	ND	ND	ND	40		
SW6	SURF	40		ND	ND	ND	ND	ND	26.9		
	1'	20									
	2'	20		ND	ND	ND	ND	ND	ND		
SW7	SURF	1640	TPH	ND	ND	10700	62700	16970	1500		
	1'	640									
	2'	40		ND	ND	ND	ND	ND	30		
SW8	SURF	60	TPH	ND	ND	92.2	166	258.2	48.7		

[illegible]

Company Name: TAP ROCKLocation Name: JACKSON UNIT #29Release Date: 10/15/2021**DELINEATION VERTICAL BOTTOM HOLE SAMPLES**

SP ID	Depth	Tit	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL
SP1	2'	40	ND	ND	ND	ND	ND	ND	ND
SP2	2'	20	ND	ND	ND	ND	ND	ND	ND
SP3	2'	60	ND	ND	ND	ND	ND	ND	42.3
SP4	2'	100	ND	ND	ND	ND	ND	ND	75
SP5	2'	40	ND	ND	ND	ND	ND	ND	40
SP6	2'	20	ND	ND	ND	ND	ND	ND	20
SP7	2'	20	ND	ND	ND	ND	ND	ND	20
SP8	2'	40	ND	ND	ND	ND	ND	ND	ND
SP9	2'	60	ND	ND	ND	ND	ND	ND	46.9
SP10	2'	80	ND	ND	ND	ND	ND	ND	55.6
SP11	2'	80	ND	ND	ND	ND	ND	ND	66
SP12	2'	80	ND	ND	ND	ND	ND	ND	62.4
SP13	2'	80	ND	ND	ND	ND	ND	ND	65.1
SP14	2'	80	ND	ND	ND	48.4	ND	48.4	67
SP15	2'	60	ND	ND	ND	ND	ND	ND	57.5
SP16	3'	80	ND	ND	ND	26.8	ND	26.8	56.1
SP17	3'	20	ND	ND	ND	74.4	58.8	133.2	ND

## DELINEATION GPS DATA

**TAPROCK - JACKSON UNIT #029H**

[illegible]

## Natalie Gladden

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**From:** natalie@energystaffingllc.com  
**Sent:** Wednesday, November 24, 2021 1:40 PM  
**To:** 'ocdonline, emnrd, EMNRD'  
**Cc:** Bratcher, Mike, EMNRD; 'Hensley, Chad, EMNRD'; robert.hamlet@state.nm.us; dakoatah@energystaffingllc.com; 'Christian Combs'  
**Subject:** TAPROCK - JACKSON 29H - COMPOSITE SAMPLES  
**Importance:** High

All,

ESS has begun excavation on the Jackson 29H for Tap Rock last week and composite sampling is underway. This release is from 10/15/21 with an incident number of nAPP2129151549. If you have any questions please do not hesitate to contact me.

*Natalie Gladden*

**Director of Environmental and Regulatory Services**

**Energy Staffing Services, LLC.**

**2724 NW County Road**

**Hobbs, NM 88240**

**Cell: 575-390-6397**

**Email: [natalie@energystaffingllc.com](mailto:natalie@energystaffingllc.com)**



Company Name: TAP ROCK Location Name: JACKSON UNIT #29 Release Date: 10/15/2021

SP ID	Depth	Titr	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil	Notes
SP1		40									
SP2		20									
SP3		60									
SP4		ND									
SP5		40									
COMP1	2'	60		ND	ND	ND	ND	ND	47.8		
SP1		80									
SP2		20									
SP3		40									
SP4		20									
SP5		ND									
COMP 2	2'	80		ND	ND	ND	ND	ND	59.8		
SP1		ND									
SP2		ND									
SP3		40									
SP4		60									
SP5		ND									
COMP 3	2'	40		ND	ND	ND	ND	ND	39.2		
SP1		80									
SP2		ND									
SP3		40									
SP4		20									
SP5		ND									
COMP 4	2'	80		ND	ND	ND	ND	ND	76.8		
SP1		20									
SP2		ND									
SP3		ND									

SP4		ND									
SP5		20									
COMP 5	2'	20		ND	ND	ND	ND	ND	ND		

SP1		ND									
SP2		40									
SP3		20									
SP4		ND									
SP5		20									
COMP 6	2'	40		ND	ND	ND	ND	ND	46		

SP1		260									
SP2		80									
SP3		100									
SP4		40									
SP5		100									
COMP 7	2'	460		ND	ND	ND	ND	ND	439		

SP1		ND									
SP2		300									
SP3		20									
SP4		ND									
SP5		ND									
COMP 8	2'	200		ND	ND	42	ND	42	185		

SP1		100									
SP2		40									
SP3		80									
SP4		20									
SP5		40									
COMP 9	2'	80		ND	ND	ND	ND	ND	72.3		

SP1		40									
SP2		60									

SP3		20									
SP4		20									
SP5		20									
COMP 10	2'	20		ND	ND	ND	ND	ND	20.5		
SP1		200									
SP2		20									
SP3		400									
SP4		20									
SP5		20									
COMP11	2'	200		ND	ND	ND	ND	ND	182		
SP1		200									
SP2		40									
SP3		20									
SP4		100									
SP5		20									
COMP 12	2'	140		ND	ND	ND	ND	ND	106		
SP1		880									
SP2		960									
SP3		1040									
SP4		1120									
SP5		1040									
COMP 13	1'	1120									EXCAVATED DEEPER
SP1		20									
SP2		40									
SP3		40									
SP4		40									
SP5		60									
COMP 13A	2'	40		ND	ND	ND	ND	ND	31.3		
SP1		ND									

SP2		ND									
SP3		40									
SP4		20									
SP5		ND									
COMP 14	2'	20		ND	ND	ND	ND	ND	ND		

SP1		100									
SP2		20									
SP3		20									
SP4		40									
SP5		200									
COMP 15	2'	100		ND	ND	ND	ND	ND	89.6		

SP1		20									
SP2		40									
SP3		20									
SP4		100									
SP5		ND									
COMP 16	2'	60		ND	ND	ND	ND	ND	32.8		

SP1		ND									
SP2		100									
SP3		60									
SP4		20									
SP5		20									
COMP 17	2'	40		ND	ND	ND	ND	ND	44.6		

SP1		20									
SP2		20									
SP3		ND									
SP4		60									
SP5		40									
COMP 18	2'	40		ND	ND	ND	ND	ND	35.9		

SP1		20									
SP2		100									
SP3		40									
SP4		80									
SP5		20									
COMP 19	2'	60		ND	ND	ND	ND	ND	53.2		

SP1		40									
SP2		20									
SP3		40									
SP4		40									
SP5		20									
COMP 20	2'	40		ND	ND	ND	ND	ND	39.6		

SP1		ND									
SP2		ND									
SP3		20									
SP4		20									
SP5		ND									
COMP 21	2'	20		ND	ND	ND	ND	ND	ND		

SP1		20									
SP2		40									
SP3		20									
SP4		ND									
SP5		40									
COMP 22	2'	40		ND	ND	ND	ND	ND	43.1		

SP1		100									
SP2		20									
SP3		80									
SP4		40									
SP5		20									
COMP 23	2'	100		ND	ND	ND	ND	ND	86.5		

SP1		240									
SP2		100									
SP3		20									
SP4		ND									
SP5		20									
COMP 24	2'	160		ND	ND	ND	ND	ND	123		

SP1		20									
SP2		20									
SP3		40									
SP4		20									
SP5		40									
COMP 25	2'	40		ND	ND	ND	ND	ND	46.7		

SP1		20									
SP2		60									
SP3		ND									
SP4		ND									
SP5		ND									
COMP 26	2'	40		ND	ND	ND	ND	ND	ND		

SP1		560									
SP2		400									
SP3		320									
SP4		800									
SP5		400									
COMP 27	1'	720									EXCAVATED FURTHER

SP1		40									
SP2		60									
SP3		20									
SP4		20									
SP5		ND									

COMP 27A	2'	40		ND	ND	ND	ND	ND	27		
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SP1		20									
SP2		>4000									
SP3		20									
SP4		20									
SP5		20									
COMP 28	1'	2800									EXCAVATED FURTHER

SP1		20									
SP2		20									
SP3		20									
SP4		40									
SP5		40									
COMP 28	2'	40		ND	ND	ND	ND	ND	20.3		

SP1		20									
SP2		80									
SP3		60									
SP4		20									
SP5		20									
COMP 29	2'	40		ND	ND	ND	ND	ND	67.3		

SP1		600									
SP2		400									
SP3		1260									
SP4		900									
SP5		100									
COMP 30	1'	700									EXCAVATED FURTHER

SP1		20									
SP2		ND									
SP3		ND									
SP4		20									

SP5		20									
COMP 30A	2'	40		ND	ND	ND	ND	ND	25.7		
SP1		20									
SP2		80									
SP3		20									
SP4		40									
SP5		20									
COMP 31	2'	40		ND	ND	ND	ND	ND	49		
SP1		2000									
SP2		1800									
SP3		200									
SP4		800									
SP5		400									
COMP 32	1'	960									EXCAVATED FURTHER
SP1		20									
SP2		20									
SP3		20									
SP4		20									
SP5		20									
COMP 32A	2'	20		ND	ND	ND	ND	ND	ND		
SP1		200									
SP2		140									
SP3		20									
SP4		40									
SP5		20									
COMP 33	2'	100		ND	ND	ND	ND	ND	119		
SP1		240									
SP2		320									
SP3		240									

SP4		20									
SP5		20									
COMP 34	2'	200		ND	ND	ND	ND	ND	112		

SP1		320									
SP2		140									
SP3		80									
SP4		240									
SP5		240									
COMP 35	2'	140		ND	ND	ND	ND	ND	114		

SP1		240									
SP2		200									
SP3		100									
SP4		40									
SP5		20									
COMP 36	3'	160		ND	ND	ND	ND	ND	148		

SP1		200									
SP2		40									
SP3		100									
SP4		20									
SP5		60									
COMP 37	2'	140		ND	ND	51.3	ND	51.3	113		EXCAVATED FURTHER

SP1		60									
SP2		40									
SP3		100									
SP4		20									
SP5		60									
COMP 37	4'	140		ND	ND	33.6	ND	33.6	104		

SP1		100									
SP2		180									

SP3		120									
SP4		ND									
SP5		20									
COMP 38	6"	120		ND	ND	ND	ND	ND	102		
SP1		3000									
SP2		20									
SP3		400									
SP4		200									
SP5		20									
COMP 39	6"	700									
SP1		ND									
SP2		ND									
SP3		60									
SP4		ND									
SP5		20									
COMP 39A	6"	40		ND	ND	ND	ND	ND	20.7		
SP1		20									
SP2		100									
SP3		ND									
SP4		40									
SP5		20									
SW1		140		ND	ND	ND	ND	ND	120		
SP1		20									
SP2		20									
SP3		ND									
SP4		ND									
SP5		ND									
SW2		20		ND	ND	ND	ND	ND	24		
SP1		ND									

SP2		ND									
SP3		220									
SP4		ND									
SP5		ND									
SW3		20		ND	ND	ND	ND	ND	26.2		

SP1		100									
SP2		240									
SP3		60									
SP4		40									
SP5		ND									
SW4		240		ND	ND	ND	ND	ND	211		

SP1		400									
SP2		ND									
SP3		1200									
SP4		400									
SP5		200									
SW5		1000									EXCAVATED FURTHER

SP1		20									
SP2		ND									
SP3		400									
SP4		200									
SP5		40									
SW5		200		ND	ND	ND	ND	ND	151		

SP1		400									
SP2		100									
SP3		ND									
SP4		400									
SP5		20									
SW6		400		ND	ND	ND	ND	ND	331		

SP1		ND									
SP2		20									
SP3		80									
SP4		100									
SP5		20									
SW7		100		ND	ND	ND	ND	ND	81.7		

SP1		400	TPH								
SP2		540									
SP3		600									
SP4		400									
SP5		600									
SW8		600		ND	ND	74.2	72.7	146.9	1130		EXCAVATED FURTHER

SP1		20									
SP2		40									
SP3		100									
SP4		40									
SP5		100									
SW8		100		ND	ND	ND	ND	ND	91.2		

SP1		400									
SP2		400									
SP3		280									
SP4		480									
SP5		20									
SW9		600		ND	ND	66.6	56.5	121.9	910		EXCAVATED FURTHER

SP1		20									
SP2		40									
SP3		20									
SP4		40									
SP5		20									
SW9		20		ND	ND	ND	ND	ND	ND		

SP1		480									
SP2		440									
SP3		600									
SP4		460									
SP5		400									
SW10		800		ND	ND	ND	ND	ND	ND		AT FLARE BASE

SP1		200									
SP2		100									
SP3		40									
SP4		100									
SP5		20									
SW11		160		ND	ND	ND	ND	ND	140		

SP1		400									
SP2		480									
SP3		200									
SP4		ND									
SP5		ND									
SW12		480		ND	ND	43.5	ND	43.5	432		

Company Name: Tap Rock Location Name: Jackson Unit #29H Release Date: 10/15/2021

**COMPOSITE LAB ANALYSIS**

SP ID	Depth	Tit	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil	Notes
COMP 1		60		ND	ND	ND	ND	ND	47.8		
COMP 2		80		ND	ND	ND	ND	ND	59.8		
COMP 3		40		ND	ND	ND	ND	ND	39.2		
COMP 4		80		ND	ND	ND	ND	ND	76.8		
COMP 5		20		ND	ND	ND	ND	ND	ND		
COMP 6		40		ND	ND	ND	ND	ND	46		
COMP 7		460		ND	ND	ND	ND	ND	439		
COMP 8		200		ND	ND	42	ND	42	185		
COMP 9		80		ND	ND	ND	ND	ND	72.3		
COMP 10		20		ND	ND	ND	ND	ND	20.5		
COMP 11		200		ND	ND	ND	ND	ND	182		
COMP 12		140		ND	ND	ND	ND	ND	106		
COMP 13A		40		ND	ND	ND	ND	ND	31.3		
COMP 14		20		ND	ND	ND	ND	ND	ND		
COMP 15		100		ND	ND	ND	ND	ND	89.6		
COMP 16		60		ND	ND	ND	ND	ND	32.8		
COMP 17		40		ND	ND	ND	ND	ND	44.6		
COMP 18		40		ND	ND	ND	ND	ND	35.9		
COMP 19		60		ND	ND	ND	ND	ND	53.2		
COMP 20		40		ND	ND	ND	ND	ND	39.6		
COMP 21		20		ND	ND	ND	ND	ND	ND		
COMP 22		40		ND	ND	ND	ND	ND	43.1		
COMP 23		100		ND	ND	ND	ND	ND	86.5		
COMP 24		160		ND	ND	ND	ND	ND	123		
COMP 25		40		ND	ND	ND	ND	ND	46.7		
COMP 26		40		ND	ND	ND	ND	ND	ND		
COMP 27A		40		ND	ND	ND	ND	ND	27		
COMP 28		40		ND	ND	ND	ND	ND	20.3		
COMP 29		40		ND	ND	ND	ND	ND	67.3		
COMP 30A		40		ND	ND	ND	ND	ND	25.7		
COMP 31		40		ND	ND	ND	ND	ND	49		

COMP 32A		20		ND	ND	ND	ND	ND	ND		
COMP 33		100		ND	ND	ND	ND	ND	119		
COMP 34		200		ND	ND	ND	ND	ND	112		
COMP 35		140		ND	ND	ND	ND	ND	114		
COMP 36		160		ND	ND	ND	ND	ND	148		
COMP 37		140		ND	ND	51.3	ND	51.3	113		
COMP 37		140		ND	ND	33.6	ND	33.6	104		
COMP 38		120		ND	ND	ND	ND	ND	102		
COMP 39A		40		ND	ND	ND	ND	ND	20.7		

Company Name: Tap Rock Location Name: Jackson Unit #29H Release Date: 10/15/2021

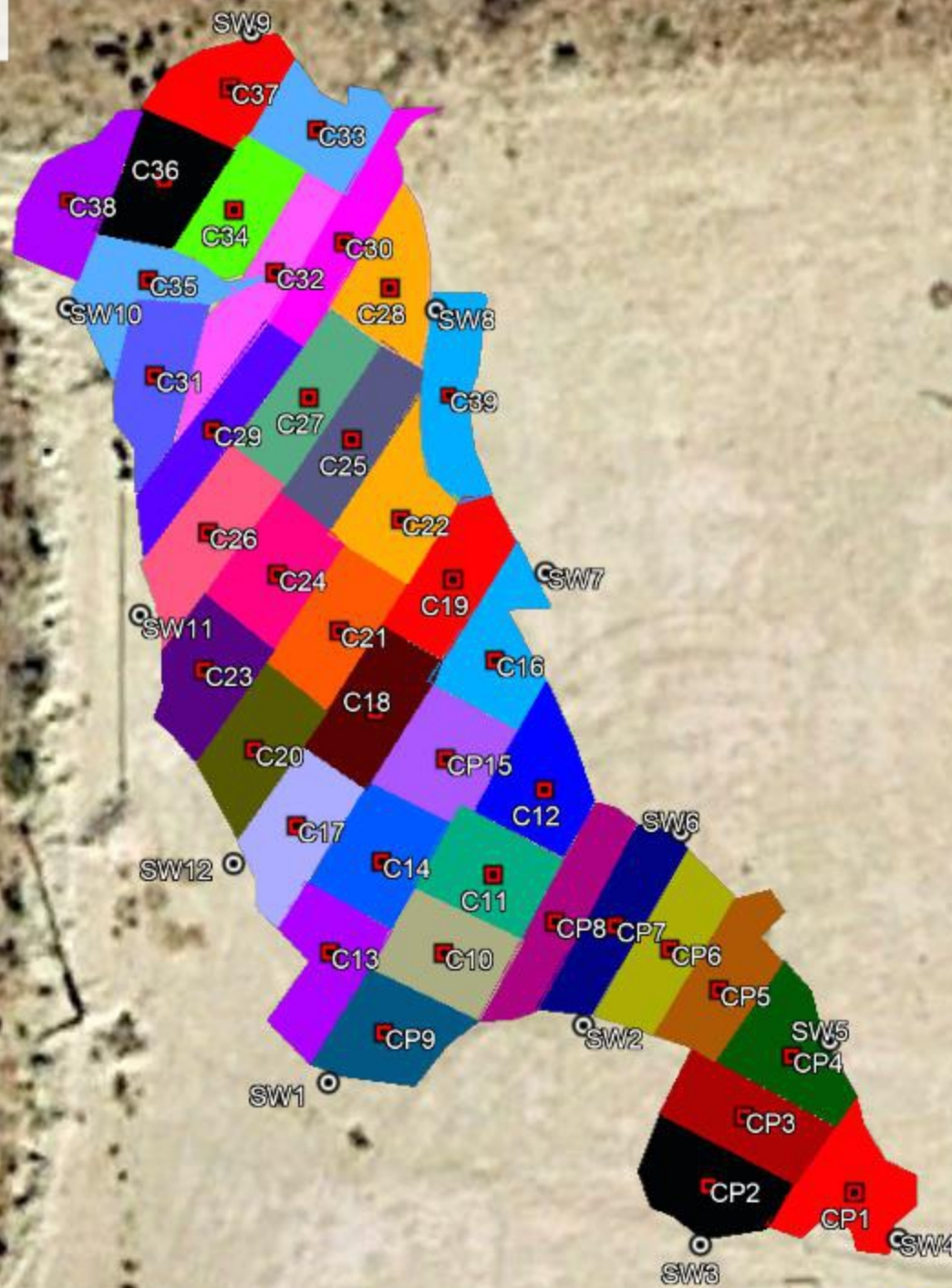
**COMPOSITE HORIZONTAL LAB ANALYSIS**

SP ID	Depth	Titre	PID	L-BTEX	L-GRO	L-DRO	L-ORO	L-TPH	L-CHL	Soil	Notes
SW1				ND	ND	ND	ND	ND	120		
SW2				ND	ND	ND	ND	ND	24		
SW3				ND	ND	ND	ND	ND	26.2		
SW4				ND	ND	ND	ND	ND	211		
SW5				ND	ND	200	214	414	887		
SW5				ND	ND	ND	ND	ND	151		
SW6				ND	ND	27.2	ND	27.2	331		
SW7				ND	ND	ND	ND	ND	81.7		
SW8				ND	ND	74.2	72.7	146.9	1130		
SW8				ND	ND	ND	ND	ND	91.2		
SW9				ND	ND	66.6	56.5	123.1	910		
SW9				ND	ND	ND	ND	ND	ND		
SW10				ND	ND	ND	ND	ND	961		
SW11				ND	ND	ND	ND	ND	140		
SW12				ND	ND	43.5	ND	43.5	432		
SW5E				ND	ND	ND	ND	ND	50.5		DATA ONLY TESTING
SW5 NE				ND	ND	229	104	333	90.7		DATA ONLY TESTING
SW5				ND	ND	ND	ND	ND	25		DATA ONLY TESTING
SW8N				ND	ND	ND	ND	ND	23.3		DATA ONLY TESTING
SW8W				ND	ND	ND	ND	ND	20.7		DATA ONLY TESTING
SW8S				ND	ND	318	154	472	83.7		DATA ONLY TESTING
SW9N				ND	ND	ND	ND	ND	45.2		DATA ONLY TESTING
SW9W				ND	ND	209	106	315	87.8		DATA ONLY TESTING
SW9S				ND	ND	217	115	332	93.7		DATA ONLY TESTING
BACKUP	COMPOSITE AUGER SAMPLING ON CUT WALL DUE TO HYDROCARBONS										
SW5	1'			ND	ND	ND	ND	ND	118		
SW5	2'			ND	ND	ND	ND	ND	253		
SW8	1'			ND	ND	ND	ND	ND	150		
SW8	2'			ND	ND	ND	ND	ND	294		

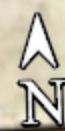
SW9	1'			ND	ND	ND	ND	ND	ND		
SW9	2'			ND	ND	ND	ND	ND	76		

# TAP ROCK

JACKSON UNIT #29H  
COMPOSITE MAP  
7,734 SQ. FT. EXCAVATION



JACKSON UNIT #29



80 ft

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\_029

Work Order: E111080

Job Number: 20046-0001

Received: 11/6/2021

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
11/12/21

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

Date Reported: 11/12/21

Natalie Gladden  
7 W. Compress Road  
Artesia, NM 88210



Project Name: Jackson\_029  
Workorder: E111080  
Date Received: 11/6/2021 2:00:00PM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/6/2021 2:00:00PM, under the Project Name: Jackson\_029.

The analytical test results summarized in this report with the Project Name: Jackson\_029 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Tap Rock	Project Name:	Jackson_029	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/21 16:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1-surf	E111080-01A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP1-2'	E111080-02A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP2-surf	E111080-03A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP2-2'	E111080-04A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP3-surf	E111080-05A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP3-2'	E111080-06A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP4-surf	E111080-07A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP4-2'	E111080-08A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SP5-surf	E111080-09A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP5-2'	E111080-10A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SP6-surf	E111080-11A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP6-2'	E111080-12A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SP7-surf	E111080-13A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP7-2'	E111080-14A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SP8-surf	E111080-15A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP8-2'	E111080-16A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SP9-surf	E111080-17A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP9-2'	E111080-18A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SP10-surf	E111080-19A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP10-2'	E111080-20A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.



## Sample Data

Tap Rock 7 W. Compress Road Artesia NM, 88210	Project Name: Jackson_029 Project Number: 20046-0001 Project Manager: Natalie Gladden	<b>Reported:</b> 11/12/2021 4:39:15PM
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### SP1-surf

#### E111080-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.9 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.1 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146033	
Diesel Range Organics (C10-C28)	121	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	119	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>	102 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146023	
Chloride	12600	400	20	11/08/21	11/11/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:39:15PM

## SP1-2'

## E111080-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2146008
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.8 %	70-130	11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2146008
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.5 %	70-130	11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2146033
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>		101 %	50-200	11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2146023
Chloride	ND	20.0	1	11/08/21	11/11/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:39:15PM

## SP2-surf

## E111080-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.9 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	89.2 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146033	
Diesel Range Organics (C10-C28)	642	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	452	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>	114 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146023	
Chloride	52900	2000	100	11/08/21	11/11/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:39:15PM

SP2-2'

E111080-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.8 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.7 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146033	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>	118 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146023	
Chloride	ND	40.0	2	11/08/21	11/11/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:39:15PM

## SP3-surf

## E111080-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>91.7 %</i>	<i>70-130</i>		<i>11/08/21</i>	<i>11/10/21</i>	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>90.4 %</i>	<i>70-130</i>		<i>11/08/21</i>	<i>11/10/21</i>	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146033	
Diesel Range Organics (C10-C28)	<b>72.7</b>	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	<b>102</b>	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>	<i>116 %</i>	<i>50-200</i>		<i>11/09/21</i>	<i>11/11/21</i>	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146023	
Chloride	<b>1040</b>	20.0	1	11/08/21	11/11/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:39:15PM

## SP3-2'

## E111080-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>91.9 %</i>	<i>70-130</i>		<i>11/08/21</i>	<i>11/10/21</i>	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>93.2 %</i>	<i>70-130</i>		<i>11/08/21</i>	<i>11/10/21</i>	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146033	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>	<i>115 %</i>	<i>50-200</i>		<i>11/09/21</i>	<i>11/11/21</i>	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146023	
Chloride	42.3	20.0	1	11/08/21	11/11/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:39:15PM

## SP4-surf

## E111080-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.6 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.4 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146033	
Diesel Range Organics (C10-C28)	4310	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	2360	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>	112 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146023	
Chloride	23900	2000	100	11/08/21	11/11/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	<b>Reported:</b> 11/12/2021 4:39:15PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## SP4-2'

## E111080-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.3 %	70-130	11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146033	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/21	11/12/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/21	11/12/21	
<i>Surrogate: n-Nonane</i>		117 %	50-200	11/09/21	11/12/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146023	
Chloride	75.0	20.0	1	11/08/21	11/11/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson\_029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:39:15PM

## SP5-surf

## E111080-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146008
Benzene	ND	0.0250	1	11/08/21	11/12/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/12/21	
Toluene	ND	0.0250	1	11/08/21	11/12/21	
o-Xylene	ND	0.0250	1	11/08/21	11/12/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/12/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/12/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.3 %	70-130		11/08/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146008
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/12/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		11/08/21	11/12/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146033
Diesel Range Organics (C10-C28)	994	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	647	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146023
Chloride	37300	2000	100	11/08/21	11/11/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson\_029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:39:15PM

## SP5-2'

## E111080-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146008
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.7 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146008
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146033
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>						
	97.6 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146023
Chloride	ND	20.0	1	11/08/21	11/11/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:39:15PM

## SP6-surf

## E111080-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>96.1 %</i>	<i>70-130</i>		<i>11/08/21</i>	<i>11/11/21</i>	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>93.5 %</i>	<i>70-130</i>		<i>11/08/21</i>	<i>11/11/21</i>	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146033	
Diesel Range Organics (C10-C28)	<b>1080</b>	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	<b>700</b>	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>	<i>113 %</i>	<i>50-200</i>		<i>11/09/21</i>	<i>11/11/21</i>	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146023	
Chloride	<b>28500</b>	2000	100	11/08/21	11/12/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:39:15PM

## SP6-2'

## E111080-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.5 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.6 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146033	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>	117 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146023	
Chloride	ND	2000	100	11/08/21	11/11/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:39:15PM

## SP7-surf

## E111080-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.3 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.6 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146033	
Diesel Range Organics (C10-C28)	4410	1250	50	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	4080	2500	50	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>	105 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146023	
Chloride	1560	20.0	1	11/08/21	11/11/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson\_029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:39:15PM

SP7-2'

E111080-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146008
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146008
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.6 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146033
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>						
	98.5 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146023
Chloride	ND	20.0	1	11/08/21	11/11/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson\_029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:39:15PM

## SP8-surf

## E111080-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146008
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.1 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146008
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.0 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146033
Diesel Range Organics (C10-C28)	980	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	650	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146023
Chloride	12600	400	20	11/08/21	11/11/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson\_029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:39:15PM

## SP8-2'

## E111080-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146008
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146008
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.0 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146033
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146023
Chloride	ND	20.0	1	11/08/21	11/11/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	<b>Reported:</b> 11/12/2021 4:39:15PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## SP9-surf

## E111080-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>92.3 %</i>	<i>70-130</i>		<i>11/08/21</i>	<i>11/11/21</i>	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>104 %</i>	<i>70-130</i>		<i>11/08/21</i>	<i>11/11/21</i>	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146033	
Diesel Range Organics (C10-C28)	<b>179</b>	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	<b>182</b>	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>	<i>110 %</i>	<i>50-200</i>		<i>11/09/21</i>	<i>11/11/21</i>	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146023	
Chloride	<b>40000</b>	2000	100	11/08/21	11/11/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:39:15PM

## SP9-2'

## E111080-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>94.4 %</i>	<i>70-130</i>		<i>11/08/21</i>	<i>11/11/21</i>	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>104 %</i>	<i>70-130</i>		<i>11/08/21</i>	<i>11/11/21</i>	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146033	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>	<i>115 %</i>	<i>50-200</i>		<i>11/09/21</i>	<i>11/11/21</i>	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146023	
Chloride	46.9	40.0	2	11/08/21	11/11/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson\_029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:39:15PM

## SP10-surf

## E111080-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146008
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.4 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146008
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146033
Diesel Range Organics (C10-C28)	2070	250	10	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	1810	500	10	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>						
	136 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146023
Chloride	10100	400	20	11/08/21	11/11/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:39:15PM

## SP10-2'

## E111080-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.2 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146008	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	102 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146033	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>	112 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146023	
Chloride	55.6	20.0	1	11/08/21	11/11/21	



## QC Summary Data

Tap Rock	Project Name:	Jackson_029	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:39:15PM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2146008-BLK1)

Prepared: 11/08/21 Analyzed: 11/11/21

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	7.61		8.00		95.1	70-130			

## LCS (2146008-BS1)

Prepared: 11/08/21 Analyzed: 11/11/21

Benzene	4.71	0.0250	5.00		94.1	70-130			
Ethylbenzene	4.47	0.0250	5.00		89.3	70-130			
Toluene	4.68	0.0250	5.00		93.6	70-130			
o-Xylene	4.57	0.0250	5.00		91.4	70-130			
p,m-Xylene	9.07	0.0500	10.0		90.7	70-130			
Total Xylenes	13.6	0.0250	15.0		90.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			

## LCS Dup (2146008-BSD1)

Prepared: 11/08/21 Analyzed: 11/11/21

Benzene	4.61	0.0250	5.00		92.2	70-130	2.08	20	
Ethylbenzene	4.36	0.0250	5.00		87.2	70-130	2.34	20	
Toluene	4.58	0.0250	5.00		91.5	70-130	2.27	20	
o-Xylene	4.47	0.0250	5.00		89.4	70-130	2.19	20	
p,m-Xylene	8.86	0.0500	10.0		88.6	70-130	2.38	20	
Total Xylenes	13.3	0.0250	15.0		88.9	70-130	2.31	20	
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			



## QC Summary Data

Tap Rock	Project Name:	Jackson_029	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:39:15PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2146008-BLK1)

Prepared: 11/08/21 Analyzed: 11/11/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.8	70-130			

## LCS (2146008-BS2)

Prepared: 11/08/21 Analyzed: 11/11/21

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.3	70-130			

## LCS Dup (2146008-BSD2)

Prepared: 11/08/21 Analyzed: 11/11/21

Gasoline Range Organics (C6-C10)	44.5	20.0	50.0		89.0	70-130	7.94	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.69		8.00		96.1	70-130			



## QC Summary Data

Tap Rock	Project Name:	Jackson_029	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:39:15PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2146033-BLK1)

Prepared: 11/09/21 Analyzed: 11/11/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	58.8		50.0		118	50-200			

## LCS (2146033-BS1)

Prepared: 11/09/21 Analyzed: 11/11/21

Diesel Range Organics (C10-C28)	535	25.0	500		107	38-132			
Surrogate: <i>n</i> -Nonane	58.3		50.0		117	50-200			

## Matrix Spike (2146033-MS1)

Source: E111080-10

Prepared: 11/09/21 Analyzed: 11/11/21

Diesel Range Organics (C10-C28)	541	25.0	500	ND	108	38-132			
Surrogate: <i>n</i> -Nonane	49.5		50.0		99.1	50-200			

## Matrix Spike Dup (2146033-MSD1)

Source: E111080-10

Prepared: 11/09/21 Analyzed: 11/11/21

Diesel Range Organics (C10-C28)	526	25.0	500	ND	105	38-132	2.80	20	
Surrogate: <i>n</i> -Nonane	48.7		50.0		97.4	50-200			



## QC Summary Data

Tap Rock	Project Name:	Jackson_029	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:39:15PM

## Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2146023-BLK1)

Prepared: 11/08/21 Analyzed: 11/11/21

Chloride	ND	20.0
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## LCS (2146023-BS1)

Prepared: 11/08/21 Analyzed: 11/11/21

Chloride	247	20.0	250	98.7	90-110
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## Matrix Spike (2146023-MS1)

Source: E111080-01

Prepared: 11/08/21 Analyzed: 11/11/21

Chloride	15500	400	250	12600	NR	80-120	M5
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## Matrix Spike Dup (2146023-MSD1)

Source: E111080-01

Prepared: 11/08/21 Analyzed: 11/11/21

Chloride	13500	400	250	12600	351	80-120	14.1	20	M5
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## QC Summary Report Comment:

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



Definitions and Notes

Tap Rock	Project Name:	Jackson_029	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/21 16:39

- M5      The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
- ND      Analyte NOT DETECTED at or above the reporting limit
- NR      Not Reported
- RPD      Relative Percent Difference
- DNI      Did Not Ignite

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

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



## Project Information

## Chain of Custody

Client: <u>Taprock</u>		Bill To		Lab Use Only				TAT				EPA Program	
Project: <u>AA Jackson 029</u>		Attention: <u>ESS</u>		Lab WO# <u>E111080</u>		Job Number <u>200460001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager:		Address:		Analysis and Method								RCRA	
Address:		City, State, Zip											
City, State, Zip		Phone:		DRO/ORO by 8015		GRO/DRO by 8015		BTX by 8021		VOC by 8260		Metals 6010	
Phone:		Email: <u>Natalie</u>		Chloride 300.0		NM - BGDOC		TX - TPH (TCEQ 1005)		State		NM CO UT AZ TX	
Email: <u>Natalie</u>													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM - BGDOC	TX - TPH (TCEQ 1005)	Remarks
	11/1/21	S	1	SP1 - Surf	1							X		
				SP1 - 2'	2									
				SP2 - Surf	3									
				SP2 - 2'	4									
				SP3 - Surf	5									
				SP3 - 2'	6									
				SP4 - Surf	7									
	11/2/21			SP4 - 2'	8									
	11/1/21			SP5 - Surf	9									
	11/2/21			SP5 - 2'	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:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>Y</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	11/5/21	1300	Received by: (Signature)	11/5/21	1300	
Relinquished by: (Signature)	11/5/21	1640	Received by: (Signature)	11/6/21	14:00	

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.

Released to Imaging: 2/22/2022 8:42:50 AM

Received by OCD: 2/21/2022 8:26:26 AM

Client: <u>Taprock</u>		Bill To: <u>ESS</u>		Lab Use Only		TAT		EPA Program								
Project: <u>Jackson 029</u>		Attention: <u>ESS</u>		Lab WO# <u>E 111080</u> Job Number <u>20046-0001</u>		1D	2D	3D	Standard	CWA	SDWA					
Project Manager:		Address:		Analysis and Method			X									
Address:		City, State, Zip		DRO/ORO by 8015							RCRA					
City, State, Zip		Phone:		GRO/DRO by 8015												
Phone:		Email:		BTEX by 8021							State					
Email: <u>Natalie</u>				VOC by 8260							NM	CO	UT	AZ	TX	
Report due by:				Metals 6010							X					
				Chloride 300.0												
				NM - BGDOC												
				TX - TPH (TCEQ 1005)												
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks
	11/1/21	S	1	SP6 - Surf	11											
	11/2/21			SP6 - 2'	12											
	11/1/21			SP7 - Surf	13											
	11/2/21			SP7 - 2'	14											
	11/1/21			SP8 - Surf	15											
	11/2/21			SP8 - 2'	16											
	11/1/21			SP9 - Surf	17											
	11/2/21			SP9 - 2'	18											
	11/1/21			SP10 - Surf	19											
	11/2/21			SP10 - 2'	20											

Additional Instructions:

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

Sampled by: \_\_\_\_\_

Relinquished by: (Signature) \_\_\_\_\_ Date 11/5/21 Time 1300 Received by: (Signature) \_\_\_\_\_ Date 11-5-21 Time 1300

Relinquished by: (Signature) \_\_\_\_\_ Date 11-5-21 Time 1640 Received by: (Signature) \_\_\_\_\_ Date 11/6/21 Time 14:00

Relinquished by: (Signature) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

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

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

Lab Use Only

Received on ice: Y / N

T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_

AVG Temp °C 4

## Envirotech Analytical Laboratory

Printed: 11/9/2021 10:09:32AM

## 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:	11/06/21 14:00	Work Order ID:	E111080
Phone:	(575) 390-6397	Date Logged In:	11/06/21 17:01	Logged In By:	Alexa Michaels
Email:	natalie@energystaffingllc.com	Due Date:	11/10/21 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: FedExComments/ResolutionSample 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? No
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Natalie Gladden



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Tap Rock

Project Name: Jackson\_029

Work Order: E111081

Job Number: 20046-0001

Received: 11/6/2021

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
11/11/21

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 11/11/21

Natalie Gladden  
7 W. Compress Road  
Artesia, NM 88210



Project Name: Jackson\_029  
Workorder: E111081  
Date Received: 11/6/2021 2:00:00PM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/6/2021 2:00:00PM, under the Project Name: Jackson\_029.

The analytical test results summarized in this report with the Project Name: Jackson\_029 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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## Sample Summary

Tap Rock	Project Name:	Jackson_029	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/11/21 16:31

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP11-surf	E111081-01A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP11-2'	E111081-02A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SP12-surf	E111081-03A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP12-2'	E111081-04A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SP13-surf	E111081-05A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP13-2'	E111081-06A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SP14-surf	E111081-07A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP14-2'	E111081-08A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SP15-surf	E111081-09A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP15-2'	E111081-10A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SP16-surf	E111081-11A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP16-3'	E111081-12A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SP17-surf	E111081-13A	Soil	11/01/21	11/06/21	Glass Jar, 4 oz.
SP17-3'	E111081-14A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.



## Sample Data

Tap Rock	Project Name:	Jackson_029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/11/2021 4:31:48PM

## SP11-surf

## E111081-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146009	
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.5 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	104 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146032	
Diesel Range Organics (C10-C28)	171	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	150	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>	116 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146025	
Chloride	18600	100	5	11/09/21	11/10/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson\_029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/11/2021 4:31:48PM

SP11-2'

E111081-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.4 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146032
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>						
	119 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146025
Chloride	66.0	20.0	1	11/09/21	11/10/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson\_029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/11/2021 4:31:48PM

## SP12-surf

## E111081-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.4 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146032
Diesel Range Organics (C10-C28)	6800	500	20	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	4650	1000	20	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>						
	58.5 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146025
Chloride	6080	200	10	11/08/21	11/11/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/11/2021 4:31:48PM

## SP12-2'

## E111081-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146009	
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.6 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	102 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146032	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>	117 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146025	
Chloride	62.4	20.0	1	11/09/21	11/10/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/11/2021 4:31:48PM

## SP13-surf

## E111081-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.1 %	70-130	11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2146032
Diesel Range Organics (C10-C28)	4100	125	5	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	2960	250	5	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>		136 %	50-200	11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2146025
Chloride	6300	200	10	11/08/21	11/11/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson\_029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/11/2021 4:31:48PM

SP13-2'

E111081-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	101 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146032
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146025
Chloride	65.1	20.0	1	11/09/21	11/10/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson\_029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/11/2021 4:31:48PM

## SP14-surf

## E111081-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	100 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146032
Diesel Range Organics (C10-C28)	5760	500	20	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	5320	1000	20	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>						
	142 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146025
Chloride	9770	400	20	11/09/21	11/11/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson\_029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/11/2021 4:31:48PM

SP14-2'

E111081-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146032
Diesel Range Organics (C10-C28)	48.4	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146025
Chloride	67.0	20.0	1	11/09/21	11/10/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson\_029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/11/2021 4:31:48PM

## SP15-surf

## E111081-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.5 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	101 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146032
Diesel Range Organics (C10-C28)	3940	500	20	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	3270	1000	20	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>						
	141 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146025
Chloride	6110	200	10	11/08/21	11/11/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson\_029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/11/2021 4:31:48PM

## SP15-2'

## E111081-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.8 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146032
Diesel Range Organics (C10-C28)	ND	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146025
Chloride	57.5	20.0	1	11/09/21	11/10/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	<b>Reported:</b> 11/11/2021 4:31:48PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## SP16-surf

## E111081-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146009	
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.0 %	70-130	11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146032	
Diesel Range Organics (C10-C28)	1180	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	795	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>		98.0 %	50-200	11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146025	
Chloride	3380	40.0	2	11/08/21	11/11/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson\_029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/11/2021 4:31:48PM

SP16-3'

E111081-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.3 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146009
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146032
Diesel Range Organics (C10-C28)	26.8	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146025
Chloride	56.1	20.0	1	11/09/21	11/10/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	<b>Reported:</b> 11/11/2021 4:31:48PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## SP17-surf

## E111081-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146009	
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.0 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	101 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146032	
Diesel Range Organics (C10-C28)	12900	1250	50	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	7570	2500	50	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>						
	124 %	50-200		11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146025	
Chloride	ND	20.0	1	11/09/21	11/10/21	



## Sample Data

Tap Rock	Project Name:	Jackson_029	<b>Reported:</b> 11/11/2021 4:31:48PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

SP17-3'

E111081-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146009	
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.0 %	70-130	11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146009	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %	70-130	11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146032	
Diesel Range Organics (C10-C28)	74.4	25.0	1	11/09/21	11/11/21	
Oil Range Organics (C28-C36)	58.8	50.0	1	11/09/21	11/11/21	
<i>Surrogate: n-Nonane</i>		108 %	50-200	11/09/21	11/11/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146025	
Chloride	ND	20.0	1	11/08/21	11/11/21	



## QC Summary Data

Tap Rock	Project Name:	Jackson_029	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/11/2021 4:31:48PM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2146009-BLK1)

Prepared: 11/08/21 Analyzed: 11/11/21

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	7.11		8.00		88.9	70-130			

## LCS (2146009-BS1)

Prepared: 11/08/21 Analyzed: 11/11/21

Benzene	4.72	0.0250	5.00		94.4	70-130			
Ethylbenzene	4.69	0.0250	5.00		93.8	70-130			
Toluene	4.94	0.0250	5.00		98.8	70-130			
o-Xylene	4.58	0.0250	5.00		91.6	70-130			
p,m-Xylene	9.50	0.0500	10.0		95.0	70-130			
Total Xylenes	14.1	0.0250	15.0		93.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.12		8.00		89.0	70-130			

## LCS Dup (2146009-BSD1)

Prepared: 11/08/21 Analyzed: 11/11/21

Benzene	4.84	0.0250	5.00		96.7	70-130	2.40	20	
Ethylbenzene	4.80	0.0250	5.00		96.0	70-130	2.40	20	
Toluene	5.03	0.0250	5.00		101	70-130	1.84	20	
o-Xylene	4.69	0.0250	5.00		93.8	70-130	2.33	20	
p,m-Xylene	9.72	0.0500	10.0		97.2	70-130	2.32	20	
Total Xylenes	14.4	0.0250	15.0		96.1	70-130	2.32	20	
Surrogate: 4-Bromochlorobenzene-PID	7.02		8.00		87.7	70-130			



## QC Summary Data

Tap Rock	Project Name:	Jackson_029	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/11/2021 4:31:48PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2146009-BLK1)

Prepared: 11/08/21 Analyzed: 11/11/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.04		8.00		101	70-130			

## LCS (2146009-BS2)

Prepared: 11/08/21 Analyzed: 11/11/21

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0		95.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.19		8.00		102	70-130			

## LCS Dup (2146009-BSD2)

Prepared: 11/08/21 Analyzed: 11/11/21

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0		96.6	70-130	1.20	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.21		8.00		103	70-130			



## QC Summary Data

Tap Rock	Project Name:	Jackson_029	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/11/2021 4:31:48PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2146032-BLK1)

Prepared: 11/09/21 Analyzed: 11/11/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.0		50.0		114	50-200			

## LCS (2146032-BS1)

Prepared: 11/09/21 Analyzed: 11/11/21

Diesel Range Organics (C10-C28)	533	25.0	500		107	38-132			
Surrogate: n-Nonane	57.3		50.0		115	50-200			

## Matrix Spike (2146032-MS1)

Source: E111081-09

Prepared: 11/09/21 Analyzed: 11/11/21

Diesel Range Organics (C10-C28)	4720	500	500	3940	156	38-132			M4
Surrogate: n-Nonane	75.0		50.0		150	50-200			

## Matrix Spike Dup (2146032-MSD1)

Source: E111081-09

Prepared: 11/09/21 Analyzed: 11/11/21

Diesel Range Organics (C10-C28)	4740	500	500	3940	160	38-132	0.423	20	M4
Surrogate: n-Nonane	81.0		50.0		162	50-200			



## QC Summary Data

Tap Rock	Project Name:	Jackson_029	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/11/2021 4:31:48PM

## Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2146025-BLK1)

Prepared: 11/09/21 Analyzed: 11/10/21

Chloride	ND	20.0							
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## LCS (2146025-BS1)

Prepared: 11/09/21 Analyzed: 11/10/21

Chloride	250	20.0	250		100	90-110			
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## LCS Dup (2146025-BSD1)

Prepared: 11/08/21 Analyzed: 11/11/21

Chloride	246	20.0	250		98.3	90-110	1.71	20	
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## QC Summary Report Comment:

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



Definitions and Notes

Tap Rock	Project Name:	Jackson_029	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/11/21 16:31

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Client: <u>Taprock</u>		Bill To: <u>ESS</u>		Lab Use Only		TAT		EPA Program					
Project: <u>Jackson 029</u>		Attention: <u>ESS</u>		Lab WO# <u>E111081</u>		Job Number <u>200460088</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager:		Address:		Analysis and Method									
Address:		City, State, Zip		DRO/ORO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010	
City, State, Zip		Phone:		Chloride 300.0		NM - BGDOC		TX - TPH (TCEQ 1005)				RCRA	
Email: <u>Natalie</u>		Email:										State	
Report due by:												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	NM - BGDOC	TX - TPH (TCEQ 1005)	1D	2D	3D	Standard	CWA	SDWA	RCRA	State	Remarks
	11/1/21	11 S	1	SP 11 - Surf	1							X										
	11/2/21			SP 11 - 2'	2																	
	11/1/21			SP 12 - Surf	3																	
	11/2/21			SP 12 - 2'	4																	
	11/1/21			SP 13 - Surf	5																	
	11/2/21			SP 13 - 2'	6																	
	11/1/21			SP 14 - Surf	7																	
	11/2/21			SP 14 - 2'	8																	
	11/1/21			SP 15 - Surf	9																	
	11/2/21			SP 15 - 2'	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:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
	11/5/21	1300		11-5-21	1300	Received on ice: <u>Y</u> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
	11-5-21	1640		11/6/21	14:00	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

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

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



## Envirotech Analytical Laboratory

Printed: 11/9/2021 10:13:56AM

## 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:	11/06/21 14:00	Work Order ID:	E111081
Phone:	(575) 390-6397	Date Logged In:	11/06/21 17:06	Logged In By:	Alexa Michaels
Email:	natalie@energystaffingllc.com	Due Date:	11/10/21 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: FedEx**Comments/Resolution****Sample Turn Around Time (TAT)**

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

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

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

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

**Sample Container**

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

**Field Label**

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

**Sample Preservation**

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

**Multiphase Sample Matrix**

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

**Subcontract Laboratory**

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

**Client Instruction**

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

Date



envirotech Inc.

Report to:  
Natalie Gladden



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 029

Work Order: E111082

Job Number: 20046-0001

Received: 11/6/2021

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
11/12/21

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

Date Reported: 11/12/21

Natalie Gladden  
7 W. Compress Road  
Artesia, NM 88210



Project Name: Jackson 029  
Workorder: E111082  
Date Received: 11/6/2021 2:00:00PM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/6/2021 2:00:00PM, under the Project Name: Jackson 029.

The analytical test results summarized in this report with the Project Name: Jackson 029 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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## Sample Summary

Tap Rock	Project Name:	Jackson 029	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/21 16:43

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW1-Surf	E111082-01A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW1-2'	E111082-02A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW2	E111082-03A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW2	E111082-04A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW3	E111082-05A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW3	E111082-06A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW4	E111082-07A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW4	E111082-08A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW5	E111082-09A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW5	E111082-10A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW6-	E111082-11A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW6-	E111082-12A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW7-	E111082-13A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW7-	E111082-14A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW8-	E111082-15A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW8-	E111082-16A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW9-	E111082-17A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW9-	E111082-18A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW10-	E111082-19A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW10-4'	E111082-20A	Soil	11/02/21	11/06/21	Glass Jar, 4 oz.
SW11-Surf	E111082-21A	Soil	11/03/21	11/06/21	Glass Jar, 4 oz.
SW11-2'	E111082-22A	Soil	11/03/21	11/06/21	Glass Jar, 4 oz.
SW12-Surf	E111082-23A	Soil	11/03/21	11/06/21	Glass Jar, 4 oz.
SW12-2'	E111082-24A	Soil	11/03/21	11/06/21	Glass Jar, 4 oz.



## Sample Data

Tap Rock	Project Name:	Jackson 029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:43:23PM

## SW1-Surf

## E111082-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.9 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.6 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	32.6	25.0	1	11/08/21	11/09/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>	115 %	50-200		11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	83.1	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

SW1-2'

E111082-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.1 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.9 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/21	11/09/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	31.6	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

## SW2

## E111082-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.6 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.7 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/21	11/09/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	761	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

## SW2

## E111082-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.8 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/21	11/09/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	261	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

## SW3

## E111082-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.0 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/21	11/09/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	353	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

## SW3

## E111082-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.1 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/21	11/09/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	29.2	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

## SW4

## E111082-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/21	11/09/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	994	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock	Project Name:	Jackson 029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:43:23PM

## SW4

## E111082-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146010	
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	89.4 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	103 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146015	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/21	11/09/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>	113 %	50-200		11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146013	
Chloride	88.5	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock	Project Name:	Jackson 029	<b>Reported:</b> 11/12/2021 4:43:23PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## SW5

## E111082-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146010	
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	89.4 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	100 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146015	
Diesel Range Organics (C10-C28)	23400	2500	100	11/08/21	11/10/21	
Oil Range Organics (C28-C36)	1760	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>	114 %	50-200		11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146013	
Chloride	311	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

## SW5

## E111082-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.0 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/21	11/09/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	40.0	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

**SW6-  
E111082-11**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.4 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/21	11/09/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	26.9	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

**SW6-  
E111082-12**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.4 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/21	11/09/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	ND	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

SW7-

E111082-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	88.2 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	10700	1250	50	11/08/21	11/10/21	
Oil Range Organics (C28-C36)	6270	2500	50	11/08/21	11/10/21	
<i>Surrogate: n-Nonane</i>						
	131 %	50-200		11/08/21	11/10/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	1500	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

SW7-

E111082-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.2 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/21	11/10/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/21	11/10/21	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		11/08/21	11/10/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	30.0	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

**SW8-  
E111082-15**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	92.2	25.0	1	11/08/21	11/09/21	
Oil Range Organics (C28-C36)	166	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	48.7	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

**SW8-  
E111082-16**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/21	11/09/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	ND	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

## SW9-

## E111082-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.9 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/21	11/10/21	
Oil Range Organics (C28-C36)	62.3	50.0	1	11/08/21	11/10/21	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		11/08/21	11/10/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	ND	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

## SW9-

## E111082-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.0 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	32.9	25.0	1	11/08/21	11/10/21	
Oil Range Organics (C28-C36)	145	50.0	1	11/08/21	11/10/21	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		11/08/21	11/10/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	ND	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

**SW10-  
E111082-19**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/21	11/10/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/21	11/10/21	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		11/08/21	11/10/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	58.4	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

SW10-4'

E111082-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Benzene	ND	0.0250	1	11/08/21	11/11/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/11/21	
Toluene	ND	0.0250	1	11/08/21	11/11/21	
o-Xylene	ND	0.0250	1	11/08/21	11/11/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/11/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/11/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/11/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		11/08/21	11/11/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146015
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/21	11/10/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/21	11/10/21	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		11/08/21	11/10/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146013
Chloride	171	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

## SW11-Surf

## E111082-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146003
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.7 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146014
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/21	11/09/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146012
Chloride	467	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock	Project Name:	Jackson 029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:43:23PM

SW11-2'

E111082-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146003	
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.2 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.1 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146014	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/08/21	11/09/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>	114 %	50-200		11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146012	
Chloride	146	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock	Project Name:	Jackson 029	<b>Reported:</b> 11/12/2021 4:43:23PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## SW12-Surf

## E111082-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146003	
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2146003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.3 %	70-130	11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2146014	
Diesel Range Organics (C10-C28)	317	25.0	1	11/08/21	11/09/21	
Oil Range Organics (C28-C36)	329	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>		113 %	50-200	11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2146012	
Chloride	644	20.0	1	11/08/21	11/09/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/12/2021 4:43:23PM

SW12-2'

E111082-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146003
Benzene	ND	0.0250	1	11/08/21	11/10/21	
Ethylbenzene	ND	0.0250	1	11/08/21	11/10/21	
Toluene	ND	0.0250	1	11/08/21	11/10/21	
o-Xylene	ND	0.0250	1	11/08/21	11/10/21	
p,m-Xylene	ND	0.0500	1	11/08/21	11/10/21	
Total Xylenes	ND	0.0250	1	11/08/21	11/10/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2146003
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/08/21	11/10/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		11/08/21	11/10/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2146014
Diesel Range Organics (C10-C28)	27.3	25.0	1	11/08/21	11/09/21	
Oil Range Organics (C28-C36)	52.2	50.0	1	11/08/21	11/09/21	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		11/08/21	11/09/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2146012
Chloride	170	20.0	1	11/08/21	11/09/21	



## QC Summary Data

Tap Rock	Project Name:	Jackson 029	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:43:23PM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2146003-BLK1)

Prepared: 11/08/21 Analyzed: 11/09/21

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	7.43		8.00		92.9	70-130			

## LCS (2146003-BS1)

Prepared: 11/08/21 Analyzed: 11/09/21

Benzene	4.90	0.0250	5.00		98.1	70-130			
Ethylbenzene	4.71	0.0250	5.00		94.2	70-130			
Toluene	4.90	0.0250	5.00		98.0	70-130			
o-Xylene	4.78	0.0250	5.00		95.7	70-130			
p,m-Xylene	9.57	0.0500	10.0		95.7	70-130			
Total Xylenes	14.4	0.0250	15.0		95.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			

## LCS Dup (2146003-BS1)

Prepared: 11/08/21 Analyzed: 11/09/21

Benzene	4.91	0.0250	5.00		98.3	70-130	0.245	20	
Ethylbenzene	4.71	0.0250	5.00		94.1	70-130	0.0552	20	
Toluene	4.90	0.0250	5.00		98.1	70-130	0.114	20	
o-Xylene	4.78	0.0250	5.00		95.6	70-130	0.0669	20	
p,m-Xylene	9.56	0.0500	10.0		95.6	70-130	0.0549	20	
Total Xylenes	14.3	0.0250	15.0		95.6	70-130	0.0589	20	
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.8	70-130			



## QC Summary Data

Tap Rock	Project Name:	Jackson 029	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:43:23PM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2146010-BLK1)

Prepared: 11/08/21 Analyzed: 11/11/21

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.26		8.00		90.7	70-130			

## LCS (2146010-BS1)

Prepared: 11/08/21 Analyzed: 11/11/21

Benzene	4.77	0.0250	5.00		95.4	70-130			
Ethylbenzene	4.51	0.0250	5.00		90.2	70-130			
Toluene	4.74	0.0250	5.00		94.7	70-130			
o-Xylene	4.62	0.0250	5.00		92.4	70-130			
p,m-Xylene	9.14	0.0500	10.0		91.4	70-130			
Total Xylenes	13.8	0.0250	15.0		91.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			

## LCS Dup (2146010-BSD1)

Prepared: 11/08/21 Analyzed: 11/11/21

Benzene	4.90	0.0250	5.00		97.9	70-130	2.58	20	
Ethylbenzene	4.67	0.0250	5.00		93.4	70-130	3.43	20	
Toluene	4.87	0.0250	5.00		97.3	70-130	2.69	20	
o-Xylene	4.77	0.0250	5.00		95.3	70-130	3.13	20	
p,m-Xylene	9.47	0.0500	10.0		94.7	70-130	3.47	20	
Total Xylenes	14.2	0.0250	15.0		94.9	70-130	3.36	20	
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			



## QC Summary Data

Tap Rock	Project Name:	Jackson 029	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:43:23PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2146003-BLK1)

Prepared: 11/08/21 Analyzed: 11/09/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130			

## LCS (2146003-BS2)

Prepared: 11/08/21 Analyzed: 11/09/21

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		97.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			

## LCS Dup (2146003-BSD2)

Prepared: 11/08/21 Analyzed: 11/09/21

Gasoline Range Organics (C6-C10)	50.4	20.0	50.0		101	70-130	3.36	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.2	70-130			



## QC Summary Data

Tap Rock	Project Name:	Jackson 029	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:43:23PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2146010-BLK1)

Prepared: 11/08/21 Analyzed: 11/11/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.2	70-130			

## LCS (2146010-BS2)

Prepared: 11/08/21 Analyzed: 11/11/21

Gasoline Range Organics (C6-C10)	47.3	20.0	50.0		94.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.8	70-130			

## LCS Dup (2146010-BSD2)

Prepared: 11/08/21 Analyzed: 11/11/21

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.8	70-130	2.33	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			



## QC Summary Data

Tap Rock	Project Name:	Jackson 029	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:43:23PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2146014-BLK1)

Prepared: 11/08/21 Analyzed: 11/09/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	58.7		50.0		117	50-200			

## LCS (2146014-BS1)

Prepared: 11/08/21 Analyzed: 11/09/21

Diesel Range Organics (C10-C28)	512	25.0	500		102	38-132			
Surrogate: <i>n</i> -Nonane	55.9		50.0		112	50-200			

## Matrix Spike (2146014-MS1)

Source: E111073-01

Prepared: 11/08/21 Analyzed: 11/09/21

Diesel Range Organics (C10-C28)	526	25.0	500	ND	105	38-132			
Surrogate: <i>n</i> -Nonane	56.8		50.0		114	50-200			

## Matrix Spike Dup (2146014-MSD1)

Source: E111073-01

Prepared: 11/08/21 Analyzed: 11/09/21

Diesel Range Organics (C10-C28)	520	25.0	500	ND	104	38-132	1.16	20	
Surrogate: <i>n</i> -Nonane	57.7		50.0		115	50-200			



## QC Summary Data

Tap Rock	Project Name:	Jackson 029	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:43:23PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2146015-BLK1)

Prepared: 11/08/21 Analyzed: 11/09/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	59.3		50.0		119	50-200			

## LCS (2146015-BS1)

Prepared: 11/08/21 Analyzed: 11/09/21

Diesel Range Organics (C10-C28)	559	25.0	500		112	38-132			
Surrogate: <i>n</i> -Nonane	55.3		50.0		111	50-200			

## Matrix Spike (2146015-MS1)

Source: E111082-01

Prepared: 11/08/21 Analyzed: 11/09/21

Diesel Range Organics (C10-C28)	573	25.0	500	32.6	108	38-132			
Surrogate: <i>n</i> -Nonane	56.3		50.0		113	50-200			

## Matrix Spike Dup (2146015-MSD1)

Source: E111082-01

Prepared: 11/08/21 Analyzed: 11/09/21

Diesel Range Organics (C10-C28)	576	25.0	500	32.6	109	38-132	0.552	20	
Surrogate: <i>n</i> -Nonane	55.3		50.0		111	50-200			



QC Summary Data

Tap Rock	Project Name:	Jackson 029	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:43:23PM

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2146012-BLK1)					Prepared: 11/08/21 Analyzed: 11/09/21				
Chloride	ND	20.0							
LCS (2146012-BS1)					Prepared: 11/08/21 Analyzed: 11/09/21				
Chloride	245	20.0	250		98.1	90-110			
LCS Dup (2146012-BSD1)					Prepared: 11/08/21 Analyzed: 11/09/21				
Chloride	244	20.0	250		97.5	90-110	0.646	20	



## QC Summary Data

Tap Rock	Project Name:	Jackson 029	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/2021 4:43:23PM

## Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2146013-BLK1)

Prepared: 11/08/21 Analyzed: 11/09/21

Chloride ND 20.0

## LCS (2146013-BS1)

Prepared: 11/08/21 Analyzed: 11/09/21

Chloride 243 20.0 250 97.1 90-110

## Matrix Spike (2146013-MS1)

Source: E111082-01

Prepared: 11/08/21 Analyzed: 11/09/21

Chloride 331 20.0 250 83.1 99.3 80-120

## Matrix Spike Dup (2146013-MSD1)

Source: E111082-01

Prepared: 11/08/21 Analyzed: 11/09/21

Chloride 332 20.0 250 83.1 99.4 80-120 0.103 20

## QC Summary Report Comment:

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



Definitions and Notes

Tap Rock	Project Name:	Jackson 029	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/12/21 16:43

- 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.

Client: <u>Taprock</u>	Bill To: <u>ESS</u>	Lab Use Only		TAT			EPA Program	
Project: <u>Jackson 029</u>	Attention: <u>ESS</u>	Lab WO# <u>E111082</u>	Job Number <u>20046-0001</u>	1D	2D	3D	Standard	CWA
Project Manager:	Address:	Analysis and Method			X			SDWA
Address:	City, State, Zip							RCRA
City, State, Zip	Phone:							State
Phone:	Email:			NM	CO	UT	AZ	TX
Email: <u>Natalie</u>				X				
Report due by:				Remarks				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM - BGDOC	TX - TPH (TCEQ 1005)						
	11/2/21	S	1	SW1-Surf	1							X							
				SW1-2'	2														
				SW2	3														
				SW2	4														
				SW3	5														
				SW3	6														
				SW4	7														
				SW4	8														
				SW5	9														
				SW5	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:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>Y</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	11/5/21	1300	Received by: (Signature)	11-5-21	1300	
Relinquished by: (Signature)	11-5-21	1640	Received by: (Signature)	11/6/21	14:00	

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.

## Project Information

## Chain of Custody

Client: <u>Taprock Jackson 029</u>		Bill To: <u>ESS</u>		Lab Use Only		TAT			EPA Program				
Project: _____		Attention: _____		Lab WO# <u>E111082</u>		Job Number <u>20046-008</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: _____		Address: _____		City, State, Zip _____		Analysis and Method			X				
Address: _____		Phone: _____		Email: _____		DRO/ORO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260	
City, State, Zip _____		City, State, Zip _____		City, State, Zip _____		Metals 6010		Chloride 300.0		NM - BGDOC		TX - TPH (TCEQ 1005)	
Phone: _____		Phone: _____		Phone: _____									
Email: <u>Natalie</u>		Email: _____		Email: _____									
Report due by: _____		Report due by: _____		Report due by: _____									

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM - BGDOC	TX - TPH (TCEQ 1005)	1D	2D	3D	Standard	CWA	SDWA	RCRA	State	Remarks
	11/2/21	S	1	SW6 -	11							X										
				SW6 -	12																	
				SW7 -	13																	
				SW7 -	14																	
				SW8 -	15																	
				SW8 -	16																	
				SW9 -	17																	
				SW9 -	18																	
				SW10 -	19																	
				SW10 - 4'	20																	

## Additional Instructions:

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

Sampled by:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>Y</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

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

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



## Envirotech Analytical Laboratory

Printed: 11/9/2021 10:37:55AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Tap Rock	Date Received:	11/06/21 14:00	Work Order ID:	E111082
Phone:	(575) 390-6397	Date Logged In:	11/06/21 17:14	Logged In By:	Alexa Michaels
Email:	natalie@energystaffingllc.com	Due Date:	11/10/21 17:00 (2 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? No
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: FedExComments/Resolution

Time Sampled, Sample by and Relinquished by signature was not provided on the COC. Sample ID on COC vs. the physical samples did not fully match as the physical samples as they provided the depth and the COC did not.

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Natalie Gladden



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: E111114

Job Number: 20046-0001

Received: 11/16/2021

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
11/19/21

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

Date Reported: 11/19/21

Natalie Gladden  
7 W. Compress Road  
Artesia, NM 88210



Project Name: Jackson Unit #29  
Workorder: E111114  
Date Received: 11/16/2021 12:46:00PM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/16/2021 12:46:00PM, 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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
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**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## 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	11/19/21 12:03

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Comp 1	E111114-01A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 2	E111114-02A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 4	E111114-03A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 5	E111114-04A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 6	E111114-05A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 9	E111114-06A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 10	E111114-07A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 11	E111114-08A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 12	E111114-09A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 14	E111114-10A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 15	E111114-11A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 16	E111114-12A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 17	E111114-13A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 18	E111114-14A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 19	E111114-15A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 20	E111114-16A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 21	E111114-17A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 22	E111114-18A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 23	E111114-19A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 24	E111114-20A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 25	E111114-21A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 3	E111114-22A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 7	E111114-23A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 26	E111114-24A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 31	E111114-25A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 33	E111114-26A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 34	E111114-27A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 35	E111114-28A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 36	E111114-29A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 37	E111114-30A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.
Comp 38	E111114-31A	Soil	11/12/21	11/16/21	Glass Jar, 4 oz.



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Comp 1

## E111114-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	90.8 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	105 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2147023	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/17/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/17/21	
<i>Surrogate: n-Nonane</i>	90.5 %	50-200		11/17/21	11/17/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147021	
Chloride	47.8	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson Unit #29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/19/2021 12:03:43PM

## Comp 2

E111114-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.1 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2147023	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/17/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/17/21	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		11/17/21	11/17/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2147021	
Chloride	59.8	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Comp 4

E111114-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.9 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	107 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2147023	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/17/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/17/21	
<i>Surrogate: n-Nonane</i>	95.5 %	50-200		11/17/21	11/17/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147021	
Chloride	76.8	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson Unit #29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/19/2021 12:03:43PM

## Comp 5

E111114-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147019
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.6 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147019
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2147023
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/17/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/17/21	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		11/17/21	11/17/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147021
Chloride	ND	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson Unit #29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/19/2021 12:03:43PM

## Comp 6

E111114-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147019
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147019
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2147023
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/17/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/17/21	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		11/17/21	11/17/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147021
Chloride	46.0	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Comp 9

E111114-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.2 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	106 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2147023	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/17/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/17/21	
<i>Surrogate: n-Nonane</i>	101 %	50-200		11/17/21	11/17/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147021	
Chloride	72.3	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson Unit #29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/19/2021 12:03:43PM

## Comp 10

E111114-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147019
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147019
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2147023
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/17/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/17/21	
<i>Surrogate: n-Nonane</i>						
	90.8 %	50-200		11/17/21	11/17/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147021
Chloride	20.5	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson Unit #29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/19/2021 12:03:43PM

## Comp 11

E111114-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147019
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.7 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147019
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.3 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2147023
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/17/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/17/21	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		11/17/21	11/17/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147021
Chloride	182	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson Unit #29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/19/2021 12:03:43PM

## Comp 12

E111114-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147019
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147019
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	107 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2147023
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>						
	93.3 %	50-200		11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147021
Chloride	106	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Comp 14

## E111114-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	91.5 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.4 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2147023	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>	103 %	50-200		11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147021	
Chloride	ND	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Comp 15

## E111114-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	90.9 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.8 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2147023	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>	99.2 %	50-200		11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147021	
Chloride	89.6	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Comp 16

## E111114-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.1 %	70-130	11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.1 %	70-130	11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2147023	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>		96.3 %	50-200	11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147021	
Chloride	32.8	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Comp 17

## E111114-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.1 %	70-130	11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.8 %	70-130	11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2147023	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>		100 %	50-200	11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147021	
Chloride	44.6	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson Unit #29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/19/2021 12:03:43PM

## Comp 18

## E111114-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.5 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2147023	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>						
	98.1 %	50-200		11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2147021	
Chloride	35.9	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson Unit #29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/19/2021 12:03:43PM

## Comp 19

## E111114-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147019
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.1 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147019
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2147023
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147021
Chloride	53.2	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Comp 20

## E111114-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	91.4 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.5 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2147023	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>	99.4 %	50-200		11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147021	
Chloride	39.6	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Comp 21

E111114-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	91.6 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.8 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2147023	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>	99.3 %	50-200		11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147021	
Chloride	ND	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson Unit #29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/19/2021 12:03:43PM

## Comp 22

E111114-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147019
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147019
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2147023
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>						
	94.2 %	50-200		11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147021
Chloride	43.1	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Comp 23

E111114-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	90.4 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.3 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2147023	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>	102 %	50-200		11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147021	
Chloride	86.5	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Comp 24

E111114-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.4 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.9 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2147023	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>	102 %	50-200		11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147021	
Chloride	123	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson Unit #29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/19/2021 12:03:43PM

## Comp 25

E111114-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147020
Benzene	ND	0.0250	1	11/17/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/17/21	
Toluene	ND	0.0250	1	11/17/21	11/17/21	
o-Xylene	ND	0.0250	1	11/17/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/17/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.1 %	70-130		11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147020
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/17/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.6 %	70-130		11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2147024
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/17/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/17/21	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		11/17/21	11/17/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147022
Chloride	46.7	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Comp 3

E111114-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2147020
Benzene	ND	0.0250	1	11/17/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/17/21	
Toluene	ND	0.0250	1	11/17/21	11/17/21	
o-Xylene	ND	0.0250	1	11/17/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/17/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.7 %	70-130	11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2147020
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/17/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.9 %	70-130	11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2147024
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/17/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/17/21	
<i>Surrogate: n-Nonane</i>		107 %	50-200	11/17/21	11/17/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2147022
Chloride	39.2	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Comp 7

E111114-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147020	
Benzene	ND	0.0250	1	11/17/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/17/21	
Toluene	ND	0.0250	1	11/17/21	11/17/21	
o-Xylene	ND	0.0250	1	11/17/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/17/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.6 %	70-130		11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147020	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/17/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	91.2 %	70-130		11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2147024	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/17/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/17/21	
<i>Surrogate: n-Nonane</i>	103 %	50-200		11/17/21	11/17/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147022	
Chloride	439	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson Unit #29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/19/2021 12:03:43PM

## Comp 26

E111114-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147020
Benzene	ND	0.0250	1	11/17/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/17/21	
Toluene	ND	0.0250	1	11/17/21	11/17/21	
o-Xylene	ND	0.0250	1	11/17/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/17/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147020
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/17/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.4 %	70-130		11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2147024
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/17/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/17/21	
<i>Surrogate: n-Nonane</i>						
	98.5 %	50-200		11/17/21	11/17/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147022
Chloride	ND	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Comp 31

E111114-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147020	
Benzene	ND	0.0250	1	11/17/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/17/21	
Toluene	ND	0.0250	1	11/17/21	11/17/21	
o-Xylene	ND	0.0250	1	11/17/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/17/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.2 %	70-130		11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147020	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/17/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.6 %	70-130		11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2147024	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/17/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/17/21	
<i>Surrogate: n-Nonane</i>	102 %	50-200		11/17/21	11/17/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147022	
Chloride	49.0	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Comp 33

E111114-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2147020
Benzene	ND	0.0250	1	11/17/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/17/21	
Toluene	ND	0.0250	1	11/17/21	11/17/21	
o-Xylene	ND	0.0250	1	11/17/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/17/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.3 %	70-130	11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2147020
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/17/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.2 %	70-130	11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2147024
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>		102 %	50-200	11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2147022
Chloride	119	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	<b>Reported:</b> 11/19/2021 12:03:43PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## Comp 34

E111114-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147020	
Benzene	ND	0.0250	1	11/17/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/17/21	
Toluene	ND	0.0250	1	11/17/21	11/17/21	
o-Xylene	ND	0.0250	1	11/17/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/17/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.3 %	70-130		11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147020	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/17/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.4 %	70-130		11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2147024	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>	104 %	50-200		11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147022	
Chloride	112	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson Unit #29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/19/2021 12:03:43PM

## Comp 35

E111114-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147020
Benzene	ND	0.0250	1	11/17/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/17/21	
Toluene	ND	0.0250	1	11/17/21	11/17/21	
o-Xylene	ND	0.0250	1	11/17/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/17/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.1 %	70-130		11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147020
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/17/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.3 %	70-130		11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2147024
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>						
	107 %	50-200		11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147022
Chloride	114	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson Unit #29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/19/2021 12:03:43PM

## Comp 36

E111114-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147020
Benzene	ND	0.0250	1	11/17/21	11/17/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/17/21	
Toluene	ND	0.0250	1	11/17/21	11/17/21	
o-Xylene	ND	0.0250	1	11/17/21	11/17/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/17/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/17/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.4 %	70-130		11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147020
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/17/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		11/17/21	11/17/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2147024
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2147022
Chloride	148	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	<b>Reported:</b> 11/19/2021 12:03:43PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## Comp 37

## E111114-30

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147020	
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	91.9 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147020	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.6 %	70-130		11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2147024	
Diesel Range Organics (C10-C28)	51.3	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>	93.5 %	50-200		11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147022	
Chloride	113	20.0	1	11/17/21	11/17/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Comp 38

## E111114-31

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147020	
Benzene	ND	0.0250	1	11/17/21	11/18/21	
Ethylbenzene	ND	0.0250	1	11/17/21	11/18/21	
Toluene	ND	0.0250	1	11/17/21	11/18/21	
o-Xylene	ND	0.0250	1	11/17/21	11/18/21	
p,m-Xylene	ND	0.0500	1	11/17/21	11/18/21	
Total Xylenes	ND	0.0250	1	11/17/21	11/18/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.1 %	70-130	11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147020	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/17/21	11/18/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		96.7 %	70-130	11/17/21	11/18/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2147024	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/21	11/18/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/21	11/18/21	
<i>Surrogate: n-Nonane</i>		113 %	50-200	11/17/21	11/18/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2147022	
Chloride	102	20.0	1	11/17/21	11/17/21	



## 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	11/19/2021 12:03:43PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2147019-BLK1)

Prepared: 11/16/21 Analyzed: 11/18/21

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	7.48		8.00		93.5	70-130			

## LCS (2147019-BS1)

Prepared: 11/16/21 Analyzed: 11/18/21

Benzene	4.59	0.0250	5.00		91.8	70-130			
Ethylbenzene	4.59	0.0250	5.00		91.9	70-130			
Toluene	4.81	0.0250	5.00		96.2	70-130			
o-Xylene	4.53	0.0250	5.00		90.6	70-130			
p,m-Xylene	9.32	0.0500	10.0		93.2	70-130			
Total Xylenes	13.8	0.0250	15.0		92.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			

## LCS Dup (2147019-BSD1)

Prepared: 11/17/21 Analyzed: 11/18/21

Benzene	4.90	0.0250	5.00		97.9	70-130	6.48	20	
Ethylbenzene	4.92	0.0250	5.00		98.5	70-130	6.94	20	
Toluene	5.13	0.0250	5.00		103	70-130	6.41	20	
o-Xylene	4.85	0.0250	5.00		97.0	70-130	6.87	20	
p,m-Xylene	9.98	0.0500	10.0		99.8	70-130	6.85	20	
Total Xylenes	14.8	0.0250	15.0		98.9	70-130	6.86	20	
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.6	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	11/19/2021 12:03:43PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2147020-BLK1)

Prepared: 11/17/21 Analyzed: 11/17/21

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	7.18		8.00		89.8	70-130			

## LCS (2147020-BS1)

Prepared: 11/17/21 Analyzed: 11/17/21

Benzene	4.86	0.0250	5.00		97.3	70-130			
Ethylbenzene	4.70	0.0250	5.00		94.1	70-130			
Toluene	4.88	0.0250	5.00		97.6	70-130			
o-Xylene	4.79	0.0250	5.00		95.9	70-130			
p,m-Xylene	9.56	0.0500	10.0		95.6	70-130			
Total Xylenes	14.4	0.0250	15.0		95.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			

## LCS Dup (2147020-BSD1)

Prepared: 11/17/21 Analyzed: 11/17/21

Benzene	4.67	0.0250	5.00		93.5	70-130	4.00	20	
Ethylbenzene	4.52	0.0250	5.00		90.4	70-130	3.96	20	
Toluene	4.69	0.0250	5.00		93.8	70-130	3.99	20	
o-Xylene	4.63	0.0250	5.00		92.6	70-130	3.52	20	
p,m-Xylene	9.20	0.0500	10.0		92.0	70-130	3.82	20	
Total Xylenes	13.8	0.0250	15.0		92.2	70-130	3.72	20	
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.7	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	11/19/2021 12:03:43PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2147019-BLK1)

Prepared: 11/16/21 Analyzed: 11/18/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.48		8.00		106	70-130			

## LCS (2147019-BS2)

Prepared: 11/16/21 Analyzed: 11/18/21

Gasoline Range Organics (C6-C10)	48.6	20.0	50.0		97.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.52		8.00		107	70-130			

## LCS Dup (2147019-BSD2)

Prepared: 11/16/21 Analyzed: 11/18/21

Gasoline Range Organics (C6-C10)	50.1	20.0	50.0		100	70-130	3.02	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.55		8.00		107	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	11/19/2021 12:03:43PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2147020-BLK1)

Prepared: 11/17/21 Analyzed: 11/17/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			

## LCS (2147020-BS2)

Prepared: 11/17/21 Analyzed: 11/17/21

Gasoline Range Organics (C6-C10)	52.7	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			

## LCS Dup (2147020-BSD2)

Prepared: 11/17/21 Analyzed: 11/17/21

Gasoline Range Organics (C6-C10)	51.3	20.0	50.0		103	70-130	2.62	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.2	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	11/19/2021 12:03:43PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2147023-BLK1)

Prepared: 11/17/21 Analyzed: 11/17/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.8		50.0		102	50-200			

## LCS (2147023-BS1)

Prepared: 11/17/21 Analyzed: 11/17/21

Diesel Range Organics (C10-C28)	537	25.0	500		107	38-132			
Surrogate: n-Nonane	45.1		50.0		90.3	50-200			

## Matrix Spike (2147023-MS1)

Source: E111114-20

Prepared: 11/17/21 Analyzed: 11/17/21

Diesel Range Organics (C10-C28)	545	25.0	500	ND	109	38-132			
Surrogate: n-Nonane	46.1		50.0		92.2	50-200			

## Matrix Spike Dup (2147023-MSD1)

Source: E111114-20

Prepared: 11/17/21 Analyzed: 11/17/21

Diesel Range Organics (C10-C28)	550	25.0	500	ND	110	38-132	0.819	20	
Surrogate: n-Nonane	47.2		50.0		94.5	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	11/19/2021 12:03:43PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2147024-BLK1)

Prepared: 11/17/21 Analyzed: 11/17/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.1		50.0		102	50-200			

## LCS (2147024-BS1)

Prepared: 11/17/21 Analyzed: 11/17/21

Diesel Range Organics (C10-C28)	471	25.0	500		94.2	38-132			
Surrogate: n-Nonane	44.7		50.0		89.4	50-200			

## Matrix Spike (2147024-MS1)

Source: E111115-05

Prepared: 11/17/21 Analyzed: 11/17/21

Diesel Range Organics (C10-C28)	502	25.0	500	ND	100	38-132			
Surrogate: n-Nonane	61.3		50.0		123	50-200			

## Matrix Spike Dup (2147024-MSD1)

Source: E111115-05

Prepared: 11/17/21 Analyzed: 11/17/21

Diesel Range Organics (C10-C28)	479	25.0	500	ND	95.8	38-132	4.62	20	
Surrogate: n-Nonane	54.2		50.0		108	50-200			



## QC Summary Data

Tap Rock	Project Name:	Jackson Unit #29	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2147021-BLK1)

Prepared: 11/17/21 Analyzed: 11/17/21

Chloride	ND	20.0
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## LCS (2147021-BS1)

Prepared: 11/17/21 Analyzed: 11/17/21

Chloride	249	20.0	250	99.5	90-110
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## Matrix Spike (2147021-MS1)

Source: E111114-01

Prepared: 11/17/21 Analyzed: 11/17/21

Chloride	293	20.0	250	47.8	98.0	80-120
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## Matrix Spike Dup (2147021-MSD1)

Source: E111114-01

Prepared: 11/17/21 Analyzed: 11/17/21

Chloride	292	20.0	250	47.8	97.6	80-120	0.294	20
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## QC Summary Data

Tap Rock	Project Name:	Jackson Unit #29	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/19/2021 12:03:43PM

## Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2147022-BLK1)

Prepared: 11/17/21 Analyzed: 11/17/21

Chloride ND 20.0

## LCS (2147022-BS1)

Prepared: 11/17/21 Analyzed: 11/17/21

Chloride 251 20.0 250 100 90-110

## Matrix Spike (2147022-MS1)

Source: E111114-21

Prepared: 11/17/21 Analyzed: 11/17/21

Chloride 298 20.0 250 46.7 101 80-120

## Matrix Spike Dup (2147022-MSD1)

Source: E111114-21

Prepared: 11/17/21 Analyzed: 11/17/21

Chloride 299 20.0 250 46.7 101 80-120 0.348 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	11/19/21 12:03

- 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.



Client: <u>Top Rock</u>		Bill To		Lab Use Only		TAT		EPA Program									
Project: <u>Jackson Unit #29</u>		Attention: <u>ESS</u>		Lab WO# <u>ELL114</u>		Job Number <u>20046-0001</u>		1D	2D	3D	Standard	CWA	SDWA				
Project Manager: <u>David H. Gladden</u>		Address:		City, State, Zip		Phone:		Email:		Report due by:		RCRA					
Address:		City, State, Zip		Phone:		Email:		Report due by:		State		NM		CO	UT	AZ	TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM - BGDOC	TX - TPH (TCEQ 1005)	Remarks
	11/12/21	Soil	1	Comp 1	1							X		
				Comp 2	2									
				Comp 4	3									
				Comp 5	4									
				Comp 6	5									
				Comp 9	6									
				Comp 10	7									
				Comp 11	8									
				Comp 12	9									
				Comp 14	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.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only			
<u>David H. Gladden</u>		11/15/21	12:05	<u>[Signature]</u>		11/15/21	12:05	Received on ice: <u>Y</u> / N			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____			
<u>[Signature]</u>		11/15/21	16:15	<u>[Signature]</u>		11/16/21	12:46	AVG Temp °C <u>4</u>			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.											



Released to Imaging: 2/22/2022 8:42:50 AM

Received by OCD: 2/1/2022 8:26:26 AM

Client:		Bill To		Lab Use Only		TAT		EPA Program	
Project:		Attention:		Lab WO#		1D		CWA	
Project Manager:		Address:		Job Number		2D		SDWA	
Address:		City, State, Zip		20046 0001		3D		RCRA	
City, State, Zip		Phone:		Analysis and Method		Standard		State	
Phone:		Email:		DRO/ORO by 8015		NM		CO	
Email:				GRO/DRO by 8015		UT		AZ	
Report due by:				BTEX by 8021		TX		TX	
				VOC by 8260					
				Metals 6010					
				Chloride 300.0					
				NM - BGDOC					
				TX - PH (CEC 1005)					

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	NM - BGDOC	TX - PH (CEC 1005)	Remarks
	11/12	S	1	Comp 15	11							X		
				Comp 16	12									
				Comp 17	13									
				Comp 18	14									
				Comp 19	15									
				Comp 20	16									
				Comp 21	17									
				Comp 22	18									
				Comp 23	19									
				Comp 24	20									

Additional Instructions:

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

Sampled by: \_\_\_\_\_

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

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

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

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Client:		Bill To	Lab Use Only	TAT			EPA Program	
Project:		Attention:	Lab WO#	1D	2D	3D	Standard	CWA
Project Manager:		Address:	Job Number		X			SDWA
Address:		City, State, Zip		Analysis and Method				RCRA
City, State, Zip		Phone:		DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	
Phone:		Email:		Metals 6010	Chloride 300.0	NM - BGDOC	TX - TPH (TCED 1005)	
Email:								State
Report due by:								NM CO UT AZ TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM - BGDOC	TX - TPH (TCED 1005)	Remarks
	11/12	S	1	Camp 25	21							X		
				Camp 3	22									
				Camp 7	23									
				Camp 26	24									
				Camp 31	25									
				Camp 33	26									
				Camp 34	27									
				Camp 35	28									
				Camp 36	29									
				Camp 37	30									

## Additional Instructions:

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

Sampled by:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<i>[Signature]</i>	11/15/21	12:05	<i>[Signature]</i>	11/15/21	12:05	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<i>[Signature]</i>	11-15-21	16:15	<i>[Signature]</i>	11-16-21	12:46	T1 T2 T3
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>

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

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

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

Client:		Bill To		Lab Use Only		TAT			EPA Program				
Project:		Attention:		Lab WO#		1D	2D	3D	Standard	CWA	SDWA		
Project Manager:		Address:		E11114			X						
Address:		City, State, Zip		Job Number		Analysis and Method							
City, State, Zip		Phone:		2046-0001		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM - BGDOC	TX - TPH (TEQ 1005)
Email:		Email:				State							
Report due by:						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	NM - BGDOC	TX - TPH (TEQ 1005)	Remarks
	11/12	S	1	Comp 38	31						X	X		
				300										

## Additional Instructions:

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

Sampled by:

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

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

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

Released to Imaging: 2/22/2022 8:42:50 AM

Received by OCD: 2/1/2022 8:26:26 AM

Client: TopRock  
Project: Jackson Unit #29  
Project Manager: David N. Gladden  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Email: \_\_\_\_\_  
Report due by: \_\_\_\_\_

Bill To  
Attention: ESS  
Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Email: \_\_\_\_\_

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
<u>E111114</u>	<u>20046-0001</u>		<u>X</u>				
Analysis and Method						RCRA	
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM - BGDOC	TX - TPH (TCEQ 1005)

State				
NM	CO	UT	AZ	TX
<u>X</u>				
Remarks				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
	<u>11/12/21</u>	<u>soil</u>	<u>1</u>	<u>Comp 1</u>	<u>1</u>
				<u>Comp 2</u>	<u>2</u>
				<u>Comp 4</u>	<u>3</u>
				<u>Comp 5</u>	<u>4</u>
				<u>Comp 6</u>	<u>5</u>
				<u>Comp 9</u>	<u>6</u>
				<u>Comp 10</u>	<u>7</u>
				<u>Comp 11</u>	<u>8</u>
				<u>Comp 12</u>	<u>9</u>
				<u>Comp 14</u>	<u>10</u>

Additional Instructions:

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

Sampled by: \_\_\_\_\_

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

Relinquished by: (Signature) <u>David Gladden</u>	Date <u>11/15/21</u>	Time <u>12:05</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>11-15-21</u>	Time <u>1205</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>11-15-21</u>	Time <u>1615</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>11-16-21</u>	Time <u>12:46</u>
Relinquished by: (Signature) _____	Date _____	Time _____	Received by: (Signature) _____	Date _____	Time _____

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

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

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

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



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Client:		Project:		Project Manager:		Address:		City, State, Zip		Phone:		Email:		Report due by:		Bill To		Lab Use Only		TAT		EPA Program			
Attention:		Address:		City, State, Zip		Phone:		Email:		Lab WO#		Job Number		1D		2D		3D		Standard		CWA		SDWA	
Analysis and Method		DRO/ORO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Metals 6010		Chloride 300.0		NM - BGDOC		TX - TPH (TCEQ 1005)						RCRA			
State		NM		CO		UT		AZ		TX															
Remarks																									
Time Sampled		Date Sampled		Matrix		No. of Containers		Sample ID		Lab Number															
11/12		S		1		Comp 15		11																	
						Comp 16		12																	
						Comp 17		13																	
						Comp 18		14																	
						Comp 19		15																	
						Comp 20		16																	
						Comp 21		17																	
						Comp 22		18																	
						Comp 23		19																	
						Comp 24		20																	
Additional Instructions:																									
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.													
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only									
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Received on ice: Y / N									
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		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.																									

Client: \_\_\_\_\_  
Project: \_\_\_\_\_  
Project Manager: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone: \_\_\_\_\_  
Email: \_\_\_\_\_  
Report due by: \_\_\_\_\_

## Bill To

Attention: \_\_\_\_\_  
Address: \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone: \_\_\_\_\_  
Email: \_\_\_\_\_

## Lab Use Only

Lab WO# E111114 Job Number 2046-0001

TAT  
1D 2D 3D Standard  
CWA SDWA

## Analysis and Method

DRO/ORO by 8015  
GRO/DRO by 8015  
BTEX by 8021  
VOC by 8260  
Metals 6010  
Chloride 300.0  
NM - BGDOC  
TX - TPH (TCEQ 1005)

State  
NM CO UT AZ TX

Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	NM - BGDOC	TX - TPH (TCEQ 1005)	1D	2D	3D	Standard	CWA	SDWA	RCRA
	11/12	S	1	Comp 25	21								X							
				Comp 3	22															
				Comp 7	23															
				Comp 26	24															
				Comp 31	25															
				Comp 33	26															
				Comp 34	27															
				Comp 35	28															
				Comp 36	29															
				Comp 37	30															

## Additional Instructions:

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

Sampled by: \_\_\_\_\_

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

Relinquished by: (Signature) _____	Date <u>11/15/21</u>	Time <u>12:05</u>	Received by: (Signature) _____	Date <u>11-15-21</u>	Time <u>1205</u>	Lab Use Only Received on ice: <u>Y</u> / N
Relinquished by: (Signature) _____	Date <u>11-15-21</u>	Time <u>1615</u>	Received by: (Signature) _____	Date <u>11-16-21</u>	Time <u>12:46</u>	T1 _____ T2 _____ T3 _____
Relinquished by: (Signature) _____	Date _____	Time _____	Received by: (Signature) _____	Date _____	Time _____	AVG Temp °C <u>4</u>

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

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

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

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## Envirotech Analytical Laboratory

Printed: 11/16/2021 1:26:18PM

## 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:	11/16/21 00:00	Work Order ID:	E111114
Phone:	(575) 390-6397	Date Logged In:	11/16/21 12:56	Logged In By:	Jessica Liesse
Email:	natalie@energystaffingllc.com	Due Date:	11/19/21 17:00 (3 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? No
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? No

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

Carrier: FedExComments/Resolution

Sample lab number 22 physical sample labeled as Comp 3-2. Sample lab number 23 physical sampled labeled as Comp 7-2.

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Natalie Gladden



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: E111130

Job Number: 20046-0001

Received: 11/22/2021

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
11/23/21

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

Date Reported: 11/23/21

Natalie Gladden  
7 W. Compress Road  
Artesia, NM 88210



Project Name: Jackson Unit #29  
Workorder: E111130  
Date Received: 11/22/2021 12:55:00PM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/22/2021 12:55:00PM, 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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Tap Rock	Project Name:	Jackson Unit #29	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/23/21 17:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Comp 27A	E111130-01A	Soil	11/15/21	11/22/21	Glass Jar, 4 oz.
Comp 30A	E111130-02A	Soil	11/15/21	11/22/21	Glass Jar, 4 oz.
Comp 32A	E111130-03A	Soil	11/15/21	11/22/21	Glass Jar, 4 oz.
Comp 13A	E111130-04A	Soil	11/15/21	11/22/21	Glass Jar, 4 oz.
Comp 39A	E111130-05A	Soil	11/15/21	11/22/21	Glass Jar, 4 oz.
Comp 28A	E111130-06A	Soil	11/15/21	11/22/21	Glass Jar, 4 oz.
SW1	E111130-07A	Soil	11/15/21	11/22/21	Glass Jar, 4 oz.
SW2	E111130-08A	Soil	11/15/21	11/22/21	Glass Jar, 4 oz.
SW3	E111130-09A	Soil	11/15/21	11/22/21	Glass Jar, 4 oz.
SW4	E111130-10A	Soil	11/15/21	11/22/21	Glass Jar, 4 oz.



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/23/2021 5:01:24PM

## Comp 27A

## E111130-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2148010
Benzene	ND	0.0250	1	11/22/21	11/23/21	
Ethylbenzene	ND	0.0250	1	11/22/21	11/23/21	
Toluene	ND	0.0250	1	11/22/21	11/23/21	
o-Xylene	ND	0.0250	1	11/22/21	11/23/21	
p,m-Xylene	ND	0.0500	1	11/22/21	11/23/21	
Total Xylenes	ND	0.0250	1	11/22/21	11/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.4 %	70-130		11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2148010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/21	11/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.0 %	70-130		11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2148008
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/21	11/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/21	11/22/21	
<i>Surrogate: n-Nonane</i>	113 %	50-200		11/22/21	11/22/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2148011
Chloride	27.0	20.0	1	11/22/21	11/23/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/23/2021 5:01:24PM

## Comp 30A

## E111130-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2148010
Benzene	ND	0.0250	1	11/22/21	11/23/21	
Ethylbenzene	ND	0.0250	1	11/22/21	11/23/21	
Toluene	ND	0.0250	1	11/22/21	11/23/21	
o-Xylene	ND	0.0250	1	11/22/21	11/23/21	
p,m-Xylene	ND	0.0500	1	11/22/21	11/23/21	
Total Xylenes	ND	0.0250	1	11/22/21	11/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		86.2 %	70-130	11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg		Analyst: RKS		Batch: 2148010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/21	11/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.0 %	70-130	11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg		Analyst: JL		Batch: 2148008
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/21	11/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/21	11/22/21	
<i>Surrogate: n-Nonane</i>		126 %	50-200	11/22/21	11/22/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg		Analyst: IY		Batch: 2148011
Chloride	25.7	20.0	1	11/22/21	11/23/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/23/2021 5:01:24PM

## Comp 32A

## E111130-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2148010	
Benzene	ND	0.0250	1	11/22/21	11/23/21	
Ethylbenzene	ND	0.0250	1	11/22/21	11/23/21	
Toluene	ND	0.0250	1	11/22/21	11/23/21	
o-Xylene	ND	0.0250	1	11/22/21	11/23/21	
p,m-Xylene	ND	0.0500	1	11/22/21	11/23/21	
Total Xylenes	ND	0.0250	1	11/22/21	11/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.7 %	70-130		11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2148010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/21	11/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.3 %	70-130		11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2148008	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/21	11/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/21	11/22/21	
<i>Surrogate: n-Nonane</i>	112 %	50-200		11/22/21	11/22/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2148011	
Chloride	ND	20.0	1	11/22/21	11/23/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/23/2021 5:01:24PM

## Comp 13A

## E111130-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2148010	
Benzene	ND	0.0250	1	11/22/21	11/23/21	
Ethylbenzene	ND	0.0250	1	11/22/21	11/23/21	
Toluene	ND	0.0250	1	11/22/21	11/23/21	
o-Xylene	ND	0.0250	1	11/22/21	11/23/21	
p,m-Xylene	ND	0.0500	1	11/22/21	11/23/21	
Total Xylenes	ND	0.0250	1	11/22/21	11/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.7 %	70-130		11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2148010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/21	11/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.7 %	70-130		11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2148008	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/21	11/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/21	11/22/21	
<i>Surrogate: n-Nonane</i>	116 %	50-200		11/22/21	11/22/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2148011	
Chloride	31.3	20.0	1	11/22/21	11/23/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson Unit #29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/23/2021 5:01:24PM

## Comp 39A

## E111130-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148010
Benzene	ND	0.0250	1	11/22/21	11/23/21	
Ethylbenzene	ND	0.0250	1	11/22/21	11/23/21	
Toluene	ND	0.0250	1	11/22/21	11/23/21	
o-Xylene	ND	0.0250	1	11/22/21	11/23/21	
p,m-Xylene	ND	0.0500	1	11/22/21	11/23/21	
Total Xylenes	ND	0.0250	1	11/22/21	11/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/21	11/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.9 %	70-130		11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2148008
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/21	11/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/21	11/22/21	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		11/22/21	11/22/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148011
Chloride	20.7	20.0	1	11/22/21	11/23/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson Unit #29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/23/2021 5:01:24PM

## Comp 28A

## E111130-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148010
Benzene	ND	0.0250	1	11/22/21	11/23/21	
Ethylbenzene	ND	0.0250	1	11/22/21	11/23/21	
Toluene	ND	0.0250	1	11/22/21	11/23/21	
o-Xylene	ND	0.0250	1	11/22/21	11/23/21	
p,m-Xylene	ND	0.0500	1	11/22/21	11/23/21	
Total Xylenes	ND	0.0250	1	11/22/21	11/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/21	11/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2148008
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/21	11/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/21	11/22/21	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		11/22/21	11/22/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148011
Chloride	20.3	20.0	1	11/22/21	11/23/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/23/2021 5:01:24PM

## SW1

## E111130-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2148010	
Benzene	ND	0.0250	1	11/22/21	11/23/21	
Ethylbenzene	ND	0.0250	1	11/22/21	11/23/21	
Toluene	ND	0.0250	1	11/22/21	11/23/21	
o-Xylene	ND	0.0250	1	11/22/21	11/23/21	
p,m-Xylene	ND	0.0500	1	11/22/21	11/23/21	
Total Xylenes	ND	0.0250	1	11/22/21	11/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.7 %	70-130		11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2148010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/21	11/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	104 %	70-130		11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2148008	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/21	11/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/21	11/22/21	
<i>Surrogate: n-Nonane</i>	117 %	50-200		11/22/21	11/22/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2148011	
Chloride	120	20.0	1	11/22/21	11/23/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson Unit #29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/23/2021 5:01:24PM

## SW2

## E111130-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148010
Benzene	ND	0.0250	1	11/22/21	11/23/21	
Ethylbenzene	ND	0.0250	1	11/22/21	11/23/21	
Toluene	ND	0.0250	1	11/22/21	11/23/21	
o-Xylene	ND	0.0250	1	11/22/21	11/23/21	
p,m-Xylene	ND	0.0500	1	11/22/21	11/23/21	
Total Xylenes	ND	0.0250	1	11/22/21	11/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/21	11/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2148008
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/21	11/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/21	11/22/21	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		11/22/21	11/22/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148011
Chloride	24.0	20.0	1	11/22/21	11/23/21	



## Sample Data

Tap Rock	Project Name:	Jackson Unit #29	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/23/2021 5:01:24PM

## SW3

## E111130-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2148010	
Benzene	ND	0.0250	1	11/22/21	11/23/21	
Ethylbenzene	ND	0.0250	1	11/22/21	11/23/21	
Toluene	ND	0.0250	1	11/22/21	11/23/21	
o-Xylene	ND	0.0250	1	11/22/21	11/23/21	
p,m-Xylene	ND	0.0500	1	11/22/21	11/23/21	
Total Xylenes	ND	0.0250	1	11/22/21	11/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.1 %	70-130	11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2148010	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/21	11/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.7 %	70-130	11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2148008	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/21	11/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/21	11/22/21	
<i>Surrogate: n-Nonane</i>		116 %	50-200	11/22/21	11/22/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2148011	
Chloride	26.2	20.0	1	11/22/21	11/23/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson Unit #29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
11/23/2021 5:01:24PM

## SW4

## E111130-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148010
Benzene	ND	0.0250	1	11/22/21	11/23/21	
Ethylbenzene	ND	0.0250	1	11/22/21	11/23/21	
Toluene	ND	0.0250	1	11/22/21	11/23/21	
o-Xylene	ND	0.0250	1	11/22/21	11/23/21	
p,m-Xylene	ND	0.0500	1	11/22/21	11/23/21	
Total Xylenes	ND	0.0250	1	11/22/21	11/23/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.7 %	70-130		11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2148010
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/22/21	11/23/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		11/22/21	11/23/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2148008
Diesel Range Organics (C10-C28)	ND	25.0	1	11/22/21	11/22/21	
Oil Range Organics (C28-C36)	ND	50.0	1	11/22/21	11/22/21	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		11/22/21	11/22/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2148011
Chloride	211	20.0	1	11/22/21	11/23/21	



## 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	11/23/2021 5:01:24PM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2148010-BLK1)

Prepared: 11/22/21 Analyzed: 11/23/21

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.53		8.00		94.1	70-130			

## LCS (2148010-BS1)

Prepared: 11/22/21 Analyzed: 11/23/21

Benzene	4.71	0.0250	5.00		94.2	70-130			
Ethylbenzene	4.82	0.0250	5.00		96.5	70-130			
Toluene	5.02	0.0250	5.00		100	70-130			
o-Xylene	4.77	0.0250	5.00		95.4	70-130			
p,m-Xylene	9.74	0.0500	10.0		97.4	70-130			
Total Xylenes	14.5	0.0250	15.0		96.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.8	70-130			

## LCS Dup (2148010-BSD1)

Prepared: 11/22/21 Analyzed: 11/23/21

Benzene	4.67	0.0250	5.00		93.5	70-130	0.816	20	
Ethylbenzene	4.80	0.0250	5.00		95.9	70-130	0.586	20	
Toluene	4.97	0.0250	5.00		99.4	70-130	1.05	20	
o-Xylene	4.76	0.0250	5.00		95.2	70-130	0.175	20	
p,m-Xylene	9.69	0.0500	10.0		96.9	70-130	0.530	20	
Total Xylenes	14.5	0.0250	15.0		96.4	70-130	0.413	20	
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	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	11/23/2021 5:01:24PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2148010-BLK1)

Prepared: 11/22/21 Analyzed: 11/23/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.13		8.00		102	70-130			

## LCS (2148010-BS2)

Prepared: 11/22/21 Analyzed: 11/23/21

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0		94.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.32		8.00		104	70-130			

## LCS Dup (2148010-BSD2)

Prepared: 11/22/21 Analyzed: 11/23/21

Gasoline Range Organics (C6-C10)	46.9	20.0	50.0		93.8	70-130	0.159	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.24		8.00		103	70-130			



## QC Summary Data

Tap Rock	Project Name:	Jackson Unit #29	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/23/2021 5:01:24PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2148008-BLK1)

Prepared: 11/22/21 Analyzed: 11/22/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	60.4		50.0		121	50-200			

## LCS (2148008-BS1)

Prepared: 11/22/21 Analyzed: 11/22/21

Diesel Range Organics (C10-C28)	541	25.0	500		108	38-132			
Surrogate: <i>n</i> -Nonane	59.3		50.0		119	50-200			

## Matrix Spike (2148008-MS1)

Source: E111130-07

Prepared: 11/22/21 Analyzed: 11/22/21

Diesel Range Organics (C10-C28)	585	25.0	500	ND	117	38-132			
Surrogate: <i>n</i> -Nonane	60.7		50.0		121	50-200			

## Matrix Spike Dup (2148008-MSD1)

Source: E111130-07

Prepared: 11/22/21 Analyzed: 11/22/21

Diesel Range Organics (C10-C28)	583	25.0	500	ND	117	38-132	0.425	20	
Surrogate: <i>n</i> -Nonane	62.5		50.0		125	50-200			



## QC Summary Data

Tap Rock	Project Name:	Jackson Unit #29	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	11/23/2021 5:01:24PM

## Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2148011-BLK1)

Prepared: 11/22/21 Analyzed: 11/23/21

Chloride ND 20.0

## LCS (2148011-BS1)

Prepared: 11/22/21 Analyzed: 11/23/21

Chloride 247 20.0 250 98.7 90-110

## Matrix Spike (2148011-MS1)

Source: E111127-21

Prepared: 11/22/21 Analyzed: 11/23/21

Chloride 248 20.0 250 ND 99.4 80-120

## Matrix Spike Dup (2148011-MSD1)

Source: E111127-21

Prepared: 11/22/21 Analyzed: 11/23/21

Chloride 248 20.0 250 ND 99.1 80-120 0.286 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	11/23/21 17:01

- 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: <u>Tap Rock</u>				Bill To				Lab Use Only				TAT				EPA Program			
Project: <u>Wagon, Nelson Unit 39</u>				Attention: <u>ESS</u>				Lab WO# <u>E111130</u>		Job Number <u>2004-0001</u>		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: <u>C. Combs</u>				Address: <u>2724 NW County Rd</u>				Analysis and Method								RCRA			
Address:				City, State, Zip <u>1 Hobbs, NM</u>															
City, State, Zip				Phone: <u>575-390-6397</u>				DRO/DRO by 8015				GRO/DRO by 8015				BTEX by 8021			
Phone:				Email: <u>mark@energy</u>				VOC by 8260				Metals 6010				Chloride 300.0			
Email:				stoppingllc.com				BGDOC NM				BGDOC TX				State			
Report due by:																NM CO UT AZ TX			
																Remarks			
Time Sampled	Date Sampled	Matrix	No of Containers	Sample ID	Lab Number														
4/15	4/15	sal	1	Comp 27A	1														
				Comp 30A	2														
				Comp 32A	3														
				Comp 13A	4														
				Comp 39A	5														
				Comp 28A	6														
				SW 1	7														
				SW 2	8														
				SW 3	9														
				SW 4	10														

## Additional Instructions:

\* Rush \*

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
T1 _____ T2 _____ T3 _____						AVG Temp °C <u>4</u>

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

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

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


**envirotech**

## Envirotech Analytical Laboratory

Printed: 11/22/2021 1:08:34PM

## 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:	11/22/21 13:01	Work Order ID:	E111130
Phone:	(575) 390-6397	Date Logged In:	11/22/21 13:01	Logged In By:	Jessica Liesse
Email:	natalie@energystaffingllc.com	Due Date:	11/23/21 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: Lab CarrierComments/Resolution

Samples recieved without COC.

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:  
Natalie Gladden



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 029

Work Order: E112030

Job Number: 20046-0001

Received: 12/7/2021

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/8/21

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

Date Reported: 12/8/21

Natalie Gladden  
7 W. Compress Road  
Artesia, NM 88210



Project Name: Jackson 029  
Workorder: E112030  
Date Received: 12/7/2021 4:36:00PM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/7/2021 4:36:00PM, under the Project Name: Jackson 029.

The analytical test results summarized in this report with the Project Name: Jackson 029 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
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[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Tap Rock	Project Name:	Jackson 029	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/08/21 17:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW 5	E112030-01A	Soil	12/02/21	12/07/21	Glass Jar, 4 oz.
SW 6	E112030-02A	Soil	12/02/21	12/07/21	Glass Jar, 4 oz.
SW 7	E112030-03A	Soil	12/02/21	12/07/21	Glass Jar, 4 oz.
SW 8	E112030-04A	Soil	12/02/21	12/07/21	Glass Jar, 4 oz.
SW 9	E112030-05A	Soil	12/02/21	12/07/21	Glass Jar, 4 oz.
SW 10	E112030-06A	Soil	12/02/21	12/07/21	Glass Jar, 4 oz.
SW 11	E112030-07A	Soil	12/02/21	12/07/21	Glass Jar, 4 oz.
SW 12	E112030-08A	Soil	12/02/21	12/07/21	Glass Jar, 4 oz.
COMP 8	E112030-09A	Soil	12/02/21	12/07/21	Glass Jar, 4 oz.
COMP 29	E112030-10A	Soil	12/02/21	12/07/21	Glass Jar, 4 oz.
Comp 37 4'	E112030-11A	Solid	12/02/21	12/07/21	Glass Jar, 4 oz.



## Sample Data

Tap Rock	Project Name:	Jackson 029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/8/2021 5:41:23PM

## SW 5

## E112030-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2150017	
Benzene	ND	0.0250	1	12/07/21	12/08/21	
Ethylbenzene	ND	0.0250	1	12/07/21	12/08/21	
Toluene	ND	0.0250	1	12/07/21	12/08/21	
o-Xylene	ND	0.0250	1	12/07/21	12/08/21	
p,m-Xylene	ND	0.0500	1	12/07/21	12/08/21	
Total Xylenes	ND	0.0250	1	12/07/21	12/08/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.5 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2150017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/07/21	12/08/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	103 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2150019	
Diesel Range Organics (C10-C28)	200	25.0	1	12/08/21	12/08/21	
Oil Range Organics (C28-C36)	214	50.0	1	12/08/21	12/08/21	
<i>Surrogate: n-Nonane</i>	133 %	50-200		12/08/21	12/08/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2150018	
Chloride	887	20.0	1	12/08/21	12/08/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
12/8/2021 5:41:23PM

## SW 6

## E112030-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150017
Benzene	ND	0.0250	1	12/07/21	12/08/21	
Ethylbenzene	ND	0.0250	1	12/07/21	12/08/21	
Toluene	ND	0.0250	1	12/07/21	12/08/21	
o-Xylene	ND	0.0250	1	12/07/21	12/08/21	
p,m-Xylene	ND	0.0500	1	12/07/21	12/08/21	
Total Xylenes	ND	0.0250	1	12/07/21	12/08/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150017
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/07/21	12/08/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2150019
Diesel Range Organics (C10-C28)	27.2	25.0	1	12/08/21	12/08/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/21	12/08/21	
<i>Surrogate: n-Nonane</i>						
	131 %	50-200		12/08/21	12/08/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150018
Chloride	331	20.0	1	12/08/21	12/08/21	



## Sample Data

Tap Rock	Project Name:	Jackson 029	<b>Reported:</b> 12/8/2021 5:41:23PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## SW 7

## E112030-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2150017	
Benzene	ND	0.0250	1	12/07/21	12/08/21	
Ethylbenzene	ND	0.0250	1	12/07/21	12/08/21	
Toluene	ND	0.0250	1	12/07/21	12/08/21	
o-Xylene	ND	0.0250	1	12/07/21	12/08/21	
p,m-Xylene	ND	0.0500	1	12/07/21	12/08/21	
Total Xylenes	ND	0.0250	1	12/07/21	12/08/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.9 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2150017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/07/21	12/08/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.8 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2150019	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/21	12/08/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/21	12/08/21	
<i>Surrogate: n-Nonane</i>	97.6 %	50-200		12/08/21	12/08/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2150018	
Chloride	81.7	20.0	1	12/08/21	12/08/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
12/8/2021 5:41:23PM

## SW 8

## E112030-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150017
Benzene	ND	0.0250	1	12/07/21	12/08/21	
Ethylbenzene	ND	0.0250	1	12/07/21	12/08/21	
Toluene	ND	0.0250	1	12/07/21	12/08/21	
o-Xylene	ND	0.0250	1	12/07/21	12/08/21	
p,m-Xylene	ND	0.0500	1	12/07/21	12/08/21	
Total Xylenes	ND	0.0250	1	12/07/21	12/08/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150017
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/07/21	12/08/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2150019
Diesel Range Organics (C10-C28)	74.2	25.0	1	12/08/21	12/08/21	
Oil Range Organics (C28-C36)	72.7	50.0	1	12/08/21	12/08/21	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		12/08/21	12/08/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150018
Chloride	1130	20.0	1	12/08/21	12/08/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
12/8/2021 5:41:23PM

## SW 9

## E112030-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150017
Benzene	ND	0.0250	1	12/07/21	12/08/21	
Ethylbenzene	ND	0.0250	1	12/07/21	12/08/21	
Toluene	ND	0.0250	1	12/07/21	12/08/21	
o-Xylene	ND	0.0250	1	12/07/21	12/08/21	
p,m-Xylene	ND	0.0500	1	12/07/21	12/08/21	
Total Xylenes	ND	0.0250	1	12/07/21	12/08/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.3 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150017
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/07/21	12/08/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.7 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2150019
Diesel Range Organics (C10-C28)	66.6	25.0	1	12/08/21	12/08/21	
Oil Range Organics (C28-C36)	56.5	50.0	1	12/08/21	12/08/21	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		12/08/21	12/08/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150018
Chloride	910	20.0	1	12/08/21	12/08/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
12/8/2021 5:41:23PM

## SW 10

## E112030-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150017
Benzene	ND	0.0250	1	12/07/21	12/08/21	
Ethylbenzene	ND	0.0250	1	12/07/21	12/08/21	
Toluene	ND	0.0250	1	12/07/21	12/08/21	
o-Xylene	ND	0.0250	1	12/07/21	12/08/21	
p,m-Xylene	ND	0.0500	1	12/07/21	12/08/21	
Total Xylenes	ND	0.0250	1	12/07/21	12/08/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150017
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/07/21	12/08/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.8 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2150019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/21	12/08/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/21	12/08/21	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		12/08/21	12/08/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150018
Chloride	961	20.0	1	12/08/21	12/08/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
12/8/2021 5:41:23PM

## SW 11

## E112030-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150017
Benzene	ND	0.0250	1	12/07/21	12/08/21	
Ethylbenzene	ND	0.0250	1	12/07/21	12/08/21	
Toluene	ND	0.0250	1	12/07/21	12/08/21	
o-Xylene	ND	0.0250	1	12/07/21	12/08/21	
p,m-Xylene	ND	0.0500	1	12/07/21	12/08/21	
Total Xylenes	ND	0.0250	1	12/07/21	12/08/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.1 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150017
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/07/21	12/08/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.4 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2150019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/21	12/08/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/21	12/08/21	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		12/08/21	12/08/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150018
Chloride	140	20.0	1	12/08/21	12/08/21	



## Sample Data

Tap Rock	Project Name:	Jackson 029	<b>Reported:</b> 12/8/2021 5:41:23PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## SW 12

## E112030-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2150017	
Benzene	ND	0.0250	1	12/07/21	12/08/21	
Ethylbenzene	ND	0.0250	1	12/07/21	12/08/21	
Toluene	ND	0.0250	1	12/07/21	12/08/21	
o-Xylene	ND	0.0250	1	12/07/21	12/08/21	
p,m-Xylene	ND	0.0500	1	12/07/21	12/08/21	
Total Xylenes	ND	0.0250	1	12/07/21	12/08/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>93.7 %</i>	<i>70-130</i>		<i>12/07/21</i>	<i>12/08/21</i>	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2150017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/07/21	12/08/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>94.8 %</i>	<i>70-130</i>		<i>12/07/21</i>	<i>12/08/21</i>	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2150019	
Diesel Range Organics (C10-C28)	<b>43.5</b>	25.0	1	12/08/21	12/08/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/21	12/08/21	
<i>Surrogate: n-Nonane</i>	<i>105 %</i>	<i>50-200</i>		<i>12/08/21</i>	<i>12/08/21</i>	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2150018	
Chloride	<b>432</b>	20.0	1	12/08/21	12/08/21	



## Sample Data

Tap Rock	Project Name:	Jackson 029	<b>Reported:</b> 12/8/2021 5:41:23PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## COMP 8

E112030-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2150017	
Benzene	ND	0.0250	1	12/07/21	12/08/21	
Ethylbenzene	ND	0.0250	1	12/07/21	12/08/21	
Toluene	ND	0.0250	1	12/07/21	12/08/21	
o-Xylene	ND	0.0250	1	12/07/21	12/08/21	
p,m-Xylene	ND	0.0500	1	12/07/21	12/08/21	
Total Xylenes	ND	0.0250	1	12/07/21	12/08/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>94.7 %</i>	<i>70-130</i>		<i>12/07/21</i>	<i>12/08/21</i>	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2150017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/07/21	12/08/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>97.4 %</i>	<i>70-130</i>		<i>12/07/21</i>	<i>12/08/21</i>	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2150019	
Diesel Range Organics (C10-C28)	<b>42.0</b>	25.0	1	12/08/21	12/08/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/21	12/08/21	
<i>Surrogate: n-Nonane</i>	<i>105 %</i>	<i>50-200</i>		<i>12/08/21</i>	<i>12/08/21</i>	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2150018	
Chloride	<b>185</b>	20.0	1	12/08/21	12/08/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 029  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
12/8/2021 5:41:23PM

## COMP 29

## E112030-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150017
Benzene	ND	0.0250	1	12/07/21	12/08/21	
Ethylbenzene	ND	0.0250	1	12/07/21	12/08/21	
Toluene	ND	0.0250	1	12/07/21	12/08/21	
o-Xylene	ND	0.0250	1	12/07/21	12/08/21	
p,m-Xylene	ND	0.0500	1	12/07/21	12/08/21	
Total Xylenes	ND	0.0250	1	12/07/21	12/08/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2150017
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/07/21	12/08/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.8 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2150019
Diesel Range Organics (C10-C28)	ND	25.0	1	12/08/21	12/08/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/21	12/08/21	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		12/08/21	12/08/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2150018
Chloride	67.3	20.0	1	12/08/21	12/08/21	



## Sample Data

Tap Rock	Project Name:	Jackson 029	<b>Reported:</b> 12/8/2021 5:41:23PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## Comp 37 4'

## E112030-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2150017	
Benzene	ND	0.0250	1	12/07/21	12/08/21	
Ethylbenzene	ND	0.0250	1	12/07/21	12/08/21	
Toluene	ND	0.0250	1	12/07/21	12/08/21	
o-Xylene	ND	0.0250	1	12/07/21	12/08/21	
p,m-Xylene	ND	0.0500	1	12/07/21	12/08/21	
Total Xylenes	ND	0.0250	1	12/07/21	12/08/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.4 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2150017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/07/21	12/08/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.2 %	70-130		12/07/21	12/08/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: JL		Batch: 2150019	
Diesel Range Organics (C10-C28)	33.6	25.0	1	12/08/21	12/08/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/08/21	12/08/21	
<i>Surrogate: n-Nonane</i>	113 %	50-200		12/08/21	12/08/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2150018	
Chloride	104	20.0	1	12/08/21	12/08/21	



## QC Summary Data

Tap Rock	Project Name:	Jackson 029	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/8/2021 5:41:23PM

## Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2150017-BLK1)

Prepared: 12/07/21 Analyzed: 12/08/21

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			

## LCS (2150017-BS1)

Prepared: 12/07/21 Analyzed: 12/08/21

Benzene	4.82	0.0250	5.00		96.4	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.6	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	4.84	0.0250	5.00		96.8	70-130			
p,m-Xylene	9.86	0.0500	10.0		98.6	70-130			
Total Xylenes	14.7	0.0250	15.0		98.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			

## Matrix Spike (2150017-MS1)

Source: E112030-01

Prepared: 12/07/21 Analyzed: 12/08/21

Benzene	4.80	0.0250	5.00	ND	96.0	54-133			
Ethylbenzene	4.85	0.0250	5.00	ND	97.1	61-133			
Toluene	5.07	0.0250	5.00	ND	101	61-130			
o-Xylene	4.79	0.0250	5.00	ND	95.9	63-131			
p,m-Xylene	9.81	0.0500	10.0	ND	98.1	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.3	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			

## Matrix Spike Dup (2150017-MSD1)

Source: E112030-01

Prepared: 12/07/21 Analyzed: 12/08/21

Benzene	4.85	0.0250	5.00	ND	96.9	54-133	1.00	20	
Ethylbenzene	4.91	0.0250	5.00	ND	98.1	61-133	1.05	20	
Toluene	5.12	0.0250	5.00	ND	102	61-130	0.911	20	
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131	1.13	20	
p,m-Xylene	9.92	0.0500	10.0	ND	99.2	63-131	1.09	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.4	63-131	1.11	20	
Surrogate: 4-Bromochlorobenzene-PID	7.60		8.00		95.0	70-130			



## QC Summary Data

Tap Rock	Project Name:	Jackson 029	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/8/2021 5:41:23PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2150017-BLK1)

Prepared: 12/07/21 Analyzed: 12/08/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.22		8.00		103	70-130			

## LCS (2150017-BS2)

Prepared: 12/07/21 Analyzed: 12/08/21

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0		92.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.18		8.00		102	70-130			

## Matrix Spike (2150017-MS2)

Source: E112030-01

Prepared: 12/07/21 Analyzed: 12/08/21

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0	ND	96.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.27		8.00		103	70-130			

## Matrix Spike Dup (2150017-MSD2)

Source: E112030-01

Prepared: 12/07/21 Analyzed: 12/08/21

Gasoline Range Organics (C6-C10)	47.7	20.0	50.0	ND	95.3	70-130	1.56	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.28		8.00		104	70-130			



## QC Summary Data

Tap Rock	Project Name:	Jackson 029	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/8/2021 5:41:23PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2150019-BLK1)

Prepared: 12/08/21 Analyzed: 12/08/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	58.5		50.0		117	50-200			

## LCS (2150019-BS1)

Prepared: 12/08/21 Analyzed: 12/08/21

Diesel Range Organics (C10-C28)	484	25.0	500		96.9	38-132			
Surrogate: <i>n</i> -Nonane	63.9		50.0		128	50-200			

## Matrix Spike (2150019-MS1)

Source: E112030-03

Prepared: 12/08/21 Analyzed: 12/08/21

Diesel Range Organics (C10-C28)	484	25.0	500	ND	96.7	38-132			
Surrogate: <i>n</i> -Nonane	63.1		50.0		126	50-200			

## Matrix Spike Dup (2150019-MSD1)

Source: E112030-03

Prepared: 12/08/21 Analyzed: 12/08/21

Diesel Range Organics (C10-C28)	478	25.0	500	ND	95.5	38-132	1.26	20	
Surrogate: <i>n</i> -Nonane	63.1		50.0		126	50-200			



## QC Summary Data

Tap Rock	Project Name:	Jackson 029	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/8/2021 5:41:23PM

## Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2150018-BLK1)

Prepared: 12/08/21 Analyzed: 12/08/21

Chloride	ND	20.0
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## LCS (2150018-BS1)

Prepared: 12/08/21 Analyzed: 12/08/21

Chloride	247	20.0	250	98.7	90-110
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## Matrix Spike (2150018-MS1)

Source: E112030-01

Prepared: 12/08/21 Analyzed: 12/08/21

Chloride	909	20.0	250	887	8.86	80-120	M2
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## Matrix Spike Dup (2150018-MSD1)

Source: E112030-01

Prepared: 12/08/21 Analyzed: 12/08/21

Chloride	1060	20.0	250	887	70.4	80-120	15.6	20	M2
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## QC Summary Report Comment:

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



## Definitions and Notes

Tap Rock	Project Name:	Jackson 029	
7 W. Compress Road	Project Number:	20046-0001	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/08/21 17:41

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

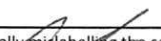
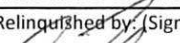
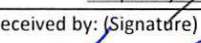
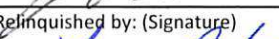
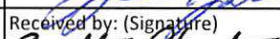
RPD Relative Percent Difference

DNI Did Not Ignite

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

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



Additional Instructions:						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.					Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.	
Sampled by: 						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	<div>Lab Use Only</div> <div>Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N</div> <div>T1 _____ T2 _____ T3 _____</div> <div>AVG Temp °C <u>4</u></div>
	12-2-21	3:40		12.6.21	1205	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
	12.7.21	1530		12/7/21	15:35	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Sample Matrix: <b>S</b> - Soil, <b>Sd</b> - Solid, <b>Sg</b> - Sludge, <b>A</b> - Aqueous, <b>O</b> - Other _____				Container Type: <b>g</b> - glass, <b>p</b> - poly/plastic, <b>ag</b> - amber glass, <b>v</b> - 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.						

Additional Instructions:

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

## Envirotech Analytical Laboratory

Printed: 12/8/2021 2:38:44PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Tap Rock	Date Received:	12/07/21 16:36	Work Order ID:	E112030
Phone:	(575) 390-6397	Date Logged In:	12/07/21 16:36	Logged In By:	Jessica Liesse
Email:	natalie@energystaffingllc.com	Due Date:	12/08/21 17:00 (1 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: Lab Carrier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

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

**Sample Container**

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

**Field Label**

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

**Sample Preservation**

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

**Multiphase Sample Matrix**

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

**Subcontract Laboratory**

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

**Client Instruction**

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

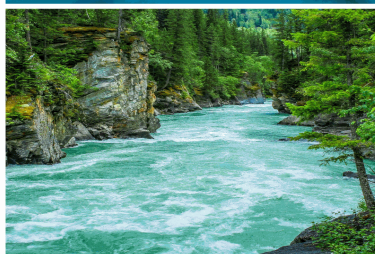
Date



envirotech Inc.

Report to:

Natalie Gladden



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

### Tap Rock

Project Name: Jackson 29

Work Order: E112097

Job Number: 20046-0001

Received: 12/29/2021

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
12/29/21

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 12/29/21

Natalie Gladden  
7 W. Compress Road  
Artesia, NM 88210



Project Name: Jackson 29  
Workorder: E112097  
Date Received: 12/29/2021 8:35:00AM

Natalie Gladden,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/29/2021 8:35:00AM, under the Project Name: Jackson 29.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
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**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

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

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Tap Rock	Project Name:	Jackson 29	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/29/21 18:15

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW 5 East	E112097-01A	Soil	12/23/21	12/29/21	Glass Jar, 4 oz.
SW 5	E112097-02A	Soil	12/23/21	12/29/21	Glass Jar, 4 oz.
SW 5 North East Corner	E112097-03A	Soil	12/23/21	12/29/21	Glass Jar, 4 oz.
SW 8 North	E112097-04A	Soil	12/23/21	12/29/21	Glass Jar, 4 oz.
SW 8 West	E112097-05A	Soil	12/23/21	12/29/21	Glass Jar, 4 oz.
SW 8 South	E112097-06A	Soil	12/23/21	12/29/21	Glass Jar, 4 oz.
SW 9 North	E112097-07A	Soil	12/23/21	12/29/21	Glass Jar, 4 oz.
SW 9 West	E112097-08A	Soil	12/23/21	12/29/21	Glass Jar, 4 oz.
SW 9 South	E112097-09A	Soil	12/23/21	12/29/21	Glass Jar, 4 oz.



## Sample Data

Tap Rock 7 W. Compress Road Artesia NM, 88210	Project Name: Jackson 29 Project Number: 20046-0001 Project Manager: Natalie Gladden	<b>Reported:</b> 12/29/2021 6:15:02PM
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## SW 5 East

## E112097-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Benzene	ND	0.0250	1	12/29/21	12/29/21	
Ethylbenzene	ND	0.0250	1	12/29/21	12/29/21	
Toluene	ND	0.0250	1	12/29/21	12/29/21	
o-Xylene	ND	0.0250	1	12/29/21	12/29/21	
p,m-Xylene	ND	0.0500	1	12/29/21	12/29/21	
Total Xylenes	ND	0.0250	1	12/29/21	12/29/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.2 %	70-130		12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/21	12/29/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.5 %	70-130		12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2153021	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/29/21	12/29/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/29/21	12/29/21	
<i>Surrogate: n-Nonane</i>	108 %	50-200		12/29/21	12/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: GB		Batch: 2153020	
Chloride	50.5	20.0	1	12/29/21	12/29/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
12/29/2021 6:15:02PM

## SW 5

## E112097-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Benzene	ND	0.0250	1	12/29/21	12/29/21	
Ethylbenzene	ND	0.0250	1	12/29/21	12/29/21	
Toluene	ND	0.0250	1	12/29/21	12/29/21	
o-Xylene	ND	0.0250	1	12/29/21	12/29/21	
p,m-Xylene	ND	0.0500	1	12/29/21	12/29/21	
Total Xylenes	ND	0.0250	1	12/29/21	12/29/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.0 %	70-130		12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/21	12/29/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.9 %	70-130		12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153021	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/29/21	12/29/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/29/21	12/29/21	
<i>Surrogate: n-Nonane</i>						
	99.5 %	50-200		12/29/21	12/29/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: GB		Batch: 2153020	
Chloride	25.0	20.0	1	12/29/21	12/29/21	



## Sample Data

Tap Rock  
7 W. Compress Road  
Artesia NM, 88210

Project Name: Jackson 29  
Project Number: 20046-0001  
Project Manager: Natalie Gladden

**Reported:**  
12/29/2021 6:15:02PM

## SW 5 North East Corner

E112097-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Benzene	ND	0.0250	1	12/29/21	12/29/21	
Ethylbenzene	ND	0.0250	1	12/29/21	12/29/21	
Toluene	ND	0.0250	1	12/29/21	12/29/21	
o-Xylene	ND	0.0250	1	12/29/21	12/29/21	
p,m-Xylene	ND	0.0500	1	12/29/21	12/29/21	
Total Xylenes	ND	0.0250	1	12/29/21	12/29/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/21	12/29/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.1 %	70-130	12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KL		Batch: 2153021	
Diesel Range Organics (C10-C28)	229	25.0	1	12/29/21	12/29/21	
Oil Range Organics (C28-C36)	104	50.0	1	12/29/21	12/29/21	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	12/29/21	12/29/21	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: GB		Batch: 2153020	
Chloride	90.7	20.0	1	12/29/21	12/29/21	



## Sample Data

Tap Rock	Project Name:	Jackson 29	<b>Reported:</b> 12/29/2021 6:15:02PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## SW 8 North

## E112097-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Benzene	ND	0.0250	1	12/29/21	12/29/21	
Ethylbenzene	ND	0.0250	1	12/29/21	12/29/21	
Toluene	ND	0.0250	1	12/29/21	12/29/21	
o-Xylene	ND	0.0250	1	12/29/21	12/29/21	
p,m-Xylene	ND	0.0500	1	12/29/21	12/29/21	
Total Xylenes	ND	0.0250	1	12/29/21	12/29/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.9 %	70-130		12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/21	12/29/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.6 %	70-130		12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2153021	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/29/21	12/29/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/29/21	12/29/21	
<i>Surrogate: n-Nonane</i>	102 %	50-200		12/29/21	12/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: GB		Batch: 2153020	
Chloride	23.3	20.0	1	12/29/21	12/29/21	



## Sample Data

Tap Rock	Project Name:	Jackson 29	<b>Reported:</b> 12/29/2021 6:15:02PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## SW 8 West

## E112097-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Benzene	ND	0.0250	1	12/29/21	12/29/21	
Ethylbenzene	ND	0.0250	1	12/29/21	12/29/21	
Toluene	ND	0.0250	1	12/29/21	12/29/21	
o-Xylene	ND	0.0250	1	12/29/21	12/29/21	
p,m-Xylene	ND	0.0500	1	12/29/21	12/29/21	
Total Xylenes	ND	0.0250	1	12/29/21	12/29/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.0 %	70-130		12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/21	12/29/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.8 %	70-130		12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2153021	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/29/21	12/29/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/29/21	12/29/21	
<i>Surrogate: n-Nonane</i>	102 %	50-200		12/29/21	12/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: GB		Batch: 2153020	
Chloride	20.7	20.0	1	12/29/21	12/29/21	



## Sample Data

Tap Rock	Project Name:	Jackson 29	<b>Reported:</b> 12/29/2021 6:15:02PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## SW 8 South

## E112097-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Benzene	ND	0.0250	1	12/29/21	12/29/21	
Ethylbenzene	ND	0.0250	1	12/29/21	12/29/21	
Toluene	ND	0.0250	1	12/29/21	12/29/21	
o-Xylene	ND	0.0250	1	12/29/21	12/29/21	
p,m-Xylene	ND	0.0500	1	12/29/21	12/29/21	
Total Xylenes	ND	0.0250	1	12/29/21	12/29/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/21	12/29/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.8 %	70-130	12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2153021	
Diesel Range Organics (C10-C28)	318	25.0	1	12/29/21	12/29/21	
Oil Range Organics (C28-C36)	154	50.0	1	12/29/21	12/29/21	
<i>Surrogate: n-Nonane</i>		98.0 %	50-200	12/29/21	12/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: GB		Batch: 2153020	
Chloride	83.7	20.0	1	12/29/21	12/29/21	



## Sample Data

Tap Rock	Project Name:	Jackson 29	<b>Reported:</b> 12/29/2021 6:15:02PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## SW 9 North

## E112097-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Benzene	ND	0.0250	1	12/29/21	12/29/21	
Ethylbenzene	ND	0.0250	1	12/29/21	12/29/21	
Toluene	ND	0.0250	1	12/29/21	12/29/21	
o-Xylene	ND	0.0250	1	12/29/21	12/29/21	
p,m-Xylene	ND	0.0500	1	12/29/21	12/29/21	
Total Xylenes	ND	0.0250	1	12/29/21	12/29/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.2 %	70-130		12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/21	12/29/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	104 %	70-130		12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2153021	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/29/21	12/29/21	
Oil Range Organics (C28-C36)	ND	50.0	1	12/29/21	12/29/21	
<i>Surrogate: n-Nonane</i>	97.7 %	50-200		12/29/21	12/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: GB		Batch: 2153020	
Chloride	45.2	20.0	1	12/29/21	12/29/21	



## Sample Data

Tap Rock	Project Name:	Jackson 29	<b>Reported:</b> 12/29/2021 6:15:02PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## SW 9 West

## E112097-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Benzene	ND	0.0250	1	12/29/21	12/29/21	
Ethylbenzene	ND	0.0250	1	12/29/21	12/29/21	
Toluene	ND	0.0250	1	12/29/21	12/29/21	
o-Xylene	ND	0.0250	1	12/29/21	12/29/21	
p,m-Xylene	ND	0.0500	1	12/29/21	12/29/21	
Total Xylenes	ND	0.0250	1	12/29/21	12/29/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.5 %	70-130		12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/21	12/29/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	102 %	70-130		12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2153021	
Diesel Range Organics (C10-C28)	209	25.0	1	12/29/21	12/29/21	
Oil Range Organics (C28-C36)	106	50.0	1	12/29/21	12/29/21	
<i>Surrogate: n-Nonane</i>	104 %	50-200		12/29/21	12/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: GB		Batch: 2153020	
Chloride	87.8	20.0	1	12/29/21	12/29/21	



## Sample Data

Tap Rock	Project Name:	Jackson 29	<b>Reported:</b> 12/29/2021 6:15:02PM
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	

## SW 9 South

## E112097-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Benzene	ND	0.0250	1	12/29/21	12/29/21	
Ethylbenzene	ND	0.0250	1	12/29/21	12/29/21	
Toluene	ND	0.0250	1	12/29/21	12/29/21	
o-Xylene	ND	0.0250	1	12/29/21	12/29/21	
p,m-Xylene	ND	0.0500	1	12/29/21	12/29/21	
Total Xylenes	ND	0.0250	1	12/29/21	12/29/21	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.0 %	70-130		12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2153019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/29/21	12/29/21	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	102 %	70-130		12/29/21	12/29/21	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KL		Batch: 2153021	
Diesel Range Organics (C10-C28)	217	25.0	1	12/29/21	12/29/21	
Oil Range Organics (C28-C36)	115	50.0	1	12/29/21	12/29/21	
<i>Surrogate: n-Nonane</i>	103 %	50-200		12/29/21	12/29/21	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: GB		Batch: 2153020	
Chloride	93.7	20.0	1	12/29/21	12/29/21	



## QC Summary Data

Tap Rock	Project Name:	Jackson 29	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/29/2021 6:15:02PM

## Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2153019-BLK1)

Prepared: 12/29/21 Analyzed: 12/29/21

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	7.81		8.00		97.7	70-130			

## LCS (2153019-BS1)

Prepared: 12/29/21 Analyzed: 12/29/21

Benzene	4.68	0.0250	5.00		93.5	70-130			
Ethylbenzene	4.81	0.0250	5.00		96.2	70-130			
Toluene	5.03	0.0250	5.00		101	70-130			
o-Xylene	4.75	0.0250	5.00		95.0	70-130			
p,m-Xylene	9.78	0.0500	10.0		97.8	70-130			
Total Xylenes	14.5	0.0250	15.0		96.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.83		8.00		97.9	70-130			

## Matrix Spike (2153019-MS1)

Source: E112095-01

Prepared: 12/29/21 Analyzed: 12/29/21

Benzene	4.83	0.0250	5.00	ND	96.7	54-133			
Ethylbenzene	4.97	0.0250	5.00	ND	99.5	61-133			
Toluene	5.17	0.0250	5.00	ND	103	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.1	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	99.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.8	70-130			

## Matrix Spike Dup (2153019-MSD1)

Source: E112095-01

Prepared: 12/29/21 Analyzed: 12/29/21

Benzene	4.83	0.0250	5.00	ND	96.6	54-133	0.0859	20	
Ethylbenzene	4.98	0.0250	5.00	ND	99.7	61-133	0.192	20	
Toluene	5.17	0.0250	5.00	ND	103	61-130	0.00774	20	
o-Xylene	4.91	0.0250	5.00	ND	98.2	63-131	0.164	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	0.0733	20	
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131	0.103	20	
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	70-130			



## QC Summary Data

Tap Rock	Project Name:	Jackson 29	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/29/2021 6:15:02PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2153019-BLK1)

Prepared: 12/29/21 Analyzed: 12/29/21

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.27		8.00		103	70-130			

## LCS (2153019-BS2)

Prepared: 12/29/21 Analyzed: 12/29/21

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.26		8.00		103	70-130			

## Matrix Spike (2153019-MS2)

Source: E112095-01

Prepared: 12/29/21 Analyzed: 12/29/21

Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.33		8.00		104	70-130			

## Matrix Spike Dup (2153019-MSD2)

Source: E112095-01

Prepared: 12/29/21 Analyzed: 12/29/21

Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	91.0	70-130	0.394	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.30		8.00		104	70-130			



## QC Summary Data

Tap Rock	Project Name:	Jackson 29	Reported:
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/29/2021 6:15:02PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2153021-BLK1)

Prepared: 12/29/21 Analyzed: 12/29/21

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.7		50.0		107	50-200			

## LCS (2153021-BS1)

Prepared: 12/29/21 Analyzed: 12/29/21

Diesel Range Organics (C10-C28)	523	25.0	500		105	38-132			
Surrogate: n-Nonane	53.9		50.0		108	50-200			

## Matrix Spike (2153021-MS1)

Source: E112096-04

Prepared: 12/29/21 Analyzed: 12/29/21

Diesel Range Organics (C10-C28)	445	25.0	500	ND	89.1	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

## Matrix Spike Dup (2153021-MSD1)

Source: E112096-04

Prepared: 12/29/21 Analyzed: 12/29/21

Diesel Range Organics (C10-C28)	442	25.0	500	ND	88.4	38-132	0.705	20	
Surrogate: n-Nonane	54.2		50.0		108	50-200			



## QC Summary Data

Tap Rock	Project Name:	Jackson 29	<b>Reported:</b>
7 W. Compress Road	Project Number:	20046-0001	
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/29/2021 6:15:02PM

## Anions by EPA 300.0/9056A

Analyst: GB

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2153020-BLK1)

Prepared: 12/29/21 Analyzed: 12/29/21

Chloride	ND	20.0
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## LCS (2153020-BS1)

Prepared: 12/29/21 Analyzed: 12/29/21

Chloride	255	20.0	250	102	90-110
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## Matrix Spike (2153020-MS1)

Source: E112095-01

Prepared: 12/29/21 Analyzed: 12/29/21

Chloride	507	20.0	250	273	93.6	80-120
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## Matrix Spike Dup (2153020-MSD1)

Source: E112095-01

Prepared: 12/29/21 Analyzed: 12/29/21

Chloride	515	20.0	250	273	96.6	80-120	1.47	20
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## QC Summary Report Comment:

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



Definitions and Notes

Tap Rock	Project Name:	Jackson 29	
7 W. Compress Road	Project Number:	20046-0001	Reported:
Artesia NM, 88210	Project Manager:	Natalie Gladden	12/29/21 18:15

- 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 29  
 Project Manager:  
 Address:  
 City, State, Zip  
 Phone:  
 Email:  
 Report due by:

## Bill To

Attention: ESS  
 Address: 2427 W Country Rd  
 City, State, Zip Hobbs, NM 88240  
 Phone:  
 Email: Natale

## Lab Use Only

Lab WO# E112097 Job Number 20105-002

## TAT

1D 2D 3D Standard

## EPA Program

CWA SDWA  
 RCRA

## Analysis and Method

DRO/DRO by 8015  
 GRO/DRO by 8015  
 BTEX by 8021  
 VOC by 8260  
 Metals 6010  
 Chloride 300.0  
 BGDOC NM  
 BGDOC TX

## State

NM CO UT AZ TX

## Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
	12/23		1	SW 5 East	1							X		
				SW 5	2									
				SW 5 North East Corner	3									
				SW 8 North	4									
				SW 8 West	5									
				SW 8 South	6									
				SW 9 North	7									
				SW 9 West	8									
				SW 9 South	9									

## 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: Tristan

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

Relinquished by: (Signature) <u>Tristan</u>	Date <u>12/23</u>	Time	Received by: (Signature) <u>Lyn Jackson</u>	Date <u>12/27</u>	Time <u>1500</u>
Relinquished by: (Signature) <u>Lyn Jackson</u>	Date <u>12/28</u>	Time <u>1900</u>	Received by: (Signature) <u>Caithlyn Christian</u>	Date <u>12/29/21</u>	Time <u>8:35</u>
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 Analytical Laboratory

Printed: 12/29/2021 11:15:40AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Tap Rock	Date Received:	12/29/21 08:35	Work Order ID:	E112097
Phone:	(575) 390-6397	Date Logged In:	12/28/21 16:17	Logged In By:	Caitlin Christian
Email:	natalie@energystaffingllc.com	Due Date:	12/29/21 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

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

Carrier: Carrier**Comments/Resolution**

Time Sampled and Sample Matrix was not provided on coc.

**Sample Turn Around Time (TAT)**

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

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

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

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

**Sample Container**

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

**Field Label**

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

**Sample Preservation**

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

**Multiphase Sample Matrix**

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

**Subcontract Laboratory**

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

**Client Instruction**

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

Date



envirotech Inc.

**Natalie Gladden**

---

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Sent:** Wednesday, January 12, 2022 10:15 AM  
**To:** natalie@energystaffingllc.com; ocdonline, emnrd, EMNRD  
**Cc:** 'Christian Combs'; 'Bill Ramsey'; dakoatah@energystaffingllc.com; Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Velez, Nelson, EMNRD; Nobui, Jennifer, EMNRD  
**Subject:** (Extension Approval) Tap Rock - Jackson Unit #029H

RE: Incident #NAPP2129151549

Natalie,

Your request for an extension to **February 15th, 2022** is approved.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



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**From:** natalie@energystaffingllc.com <natalie@energystaffingllc.com>  
**Sent:** Monday, January 10, 2022 9:33 AM  
**To:** ocdonline, emnrd, EMNRD <EMNRD.OCDOnline@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Cc:** 'Christian Combs' <ccombs@taprk.com>; 'Bill Ramsey' <Bramsey@taprk.com>; dakoatah@energystaffingllc.com  
**Subject:** [EXTERNAL] Tap Rock - Jackson Unit #029H - Extension Request  
**Importance:** High

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

The site has been delineated and remediated. We have obtained final closure composite samples and have they have passed the site characterization for this site. Due to unforeseen issues with backfill, we will need to request an extension for the below remediation:

Jackson Unit #029H  
DOR: 10/15/21  
90 Day Deadline: 1/15/21  
API No. 30-025-41767  
OCD Incident No. nAPP2129151549

Extension Request Date: 2/15/2021

If you have any questions or concerns, please feel free to contact the undersigned. Your patience in this matter is greatly appreciated.

Sincerely,

*Natalie Gladden*

**Director of Environmental and Regulatory Services**

**Energy Staffing Services, LLC.**

**2724 NW County Road**

**Hobbs, NM 88240**

**Cell: 575-390-6397**

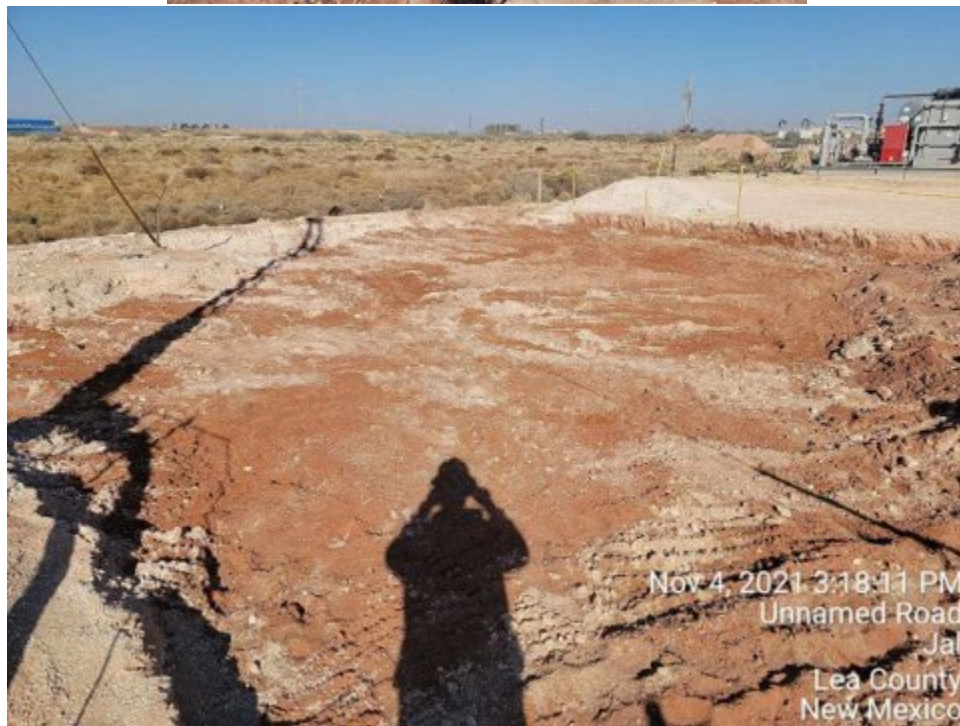
**Email: [natalie@energystaffingllc.com](mailto:natalie@energystaffingllc.com)**





**REMIATIATON PHOTOS  
JACKSON UNIT #029H**





























**FINAL PHOTOS  
JACKSON UNIT #029H**









Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*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?	<u>&lt;50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist: Each of the following items must be included in the report.**

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

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Incident ID	
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Facility ID	
Application ID	

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:  Date: 1/30/22

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

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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 (electronic submittals in .pdf format are preferred) 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.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate OCD District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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.

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

Signature:  Date: 1/30/22

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

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 77146

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 77146
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Closure approved.	2/22/2022