

***** LIQUID SPILLS - VOLUME CALCULATIONS *****						
Location of spill:	VGWU P2 SATELLITE (32.807884, -103.513437)			Date of Spill:	10/13/2023	
				Site Soil Type:	KU — Kimbrough-Lea	
Estimated Daily Production Loss: 2 BBL Oil 15 BBL Water						
Total Area Calculations						
Total Surface Area	width		length		wet soil depth	oil (%)
Rectangle Area #1	86.0 ft	X	421.0 ft	X	0.01 in	12%
Rectangle Area #2	ft	X	ft	X	in	0%
Rectangle Area #3	ft	X	ft	X	in	0%
Rectangle Area #4	ft	X	ft	X	in	0%
Rectangle Area #5	ft	X	ft	X	in	0%
Rectangle Area #6	ft	X	ft	X	in	0%
Rectangle Area #7	ft	X	ft	X	in	0%
Rectangle Area #8	ft	X	ft	X	in	0%
Porosity 0.250 gal per gal						
<u>Saturated Soil Volume Calculations:</u>						
		H2O		OIL		
Area #1	36,206 sq. ft.	16	cu. ft.	2	cu. ft.	
Area #2	0 sq. ft.		cu. ft.		cu. ft.	
Area #3	0 sq. ft.		cu. ft.		cu. ft.	
Area #4	0 sq. ft.		cu. ft.		cu. ft.	
Area #5	0 sq. ft.		cu. ft.		cu. ft.	
Area #6	0 sq. ft.		cu. ft.		cu. ft.	
Area #7	0 sq. ft.		cu. ft.		cu. ft.	
Area #8	0 sq. ft.		cu. ft.		cu. ft.	
Total Solid/Liquid Volume:		36,206	sq. ft.	16	cu. ft.	2 cu. ft.
<u>Estimated Volumes Spilled</u>						
		H2O		OIL		
Liquid in Soil:		0.7	BBL	0.1	BBL	
Liquid Recovered :		15.0	BBL	2.0	BBL	
Spill Liquid		15.7	BBL	2.1	BBL	
Total Spill Liquid:		17.8				
<u>Recovered Volumes</u>						
Estimated oil recovered:		2.0	BBL			
Estimated water recovered:		15.0	BBL			

Soil Type	Porosity
Clay	0.15
Peat	0.40
Glacial Sediments	0.13
Sandy Clay	0.12
Silt	0.16
Loess	0.25
Fine Sand	0.16
Medium Sand	0.25
Coarse Sand	0.26
Gravelly Sand	0.26
Fine Gravel	0.26
Medium Gravel	0.25
Coarse Gravel	0.18
Sandstone	0.25
Siltstone	0.18
Shale	0.05
Limestone	0.13
Basalt	0.19
Volcanic Tuff	0.20
Standing Liquids	

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	NAPP2329249507
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	MORNINGSTAR OPERATING LLC	OGRID	330132
Contact Name	SAMANNTA AVARELLO	Contact Telephone	817-334-7747
Contact email	SAVARELLO@TXOPARTNERS.COM	Incident # (assigned by OCD)	NAPP2329249507
Contact mailing address	400 W. 7TH ST. FORT WORTH, TX 76102		

Location of Release Source

Latitude 32.807884 Longitude -103.513437
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	VGWU P2 SATELLITE	Site Type	
Date Release Discovered	10/13/2023	API# (if applicable)	

Unit Letter	Section	Township	Range	County
G	25	17S	34E	LEA

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 2	Volume Recovered (bbls) 2
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 15	Volume Recovered (bbls) 15
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release **EQUIPMENT FAILURE**

Incident ID	NAPP2329249507
District RP	
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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)?	

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>SAMANNTHA AVARELLO</u>	Title: <u>EHS COORDINATOR</u>
Signature: <u>Samanntha Avarello</u>	Date: <u>05/10/2024</u>
email: <u>SAVARELLO@TXOPARTNERS.COM</u>	Telephone: <u>817-334-7747</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	NAPP2329249507
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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?	95 (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 not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input 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.

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Printed Name: SAMANNTHA AVARELLO Title: EHS COORDINATOR
Signature: *Samanntha Avarello* Date: 05/20/2024
email: SAVARELLO@TXOPARTNERS.COM Telephone: 817-334-7747

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2329249507
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: SAMANNTHA AVARELLO

Title: EHS COORDINATOR

Signature: Samanntha AvarelloDate: 05/20/2024email: SAVARELLO@TXOPARTNERS.COMTelephone: 817-334-7747**OCD Only**

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____

Date: _____

Trinity Oilfield Services & Rentals, LLC



May 20th, 2024

Oil Conservation Division, District I
1625 N. French Drive
Hobbs, NM 88240

Re: **Remediation Plan Request**
VGWU P2 Satellite
Tracking #: NAPP2329249507

Trinity Oilfield Services (Trinity), on behalf of MorningStar Operating LLC, hereby submits the following Remediation Plan Request in response to a release that occurred at the above-referenced location, and further described below.

Site Information	
Incident ID	NAPP2329249507
Site Name	VGWU P2 Satellite
Company	MorningStar Operating LLC
County	Lea
ULSTR	G-25-17S-34E
GPS Coordinates (NAD 83)	32.807884, -103.513437
Landowner	Private

RELEASE BACKGROUND

On 10/19/2023, MorningStar Operating LLC reported a release at the VGWU P2 Satellite. The release was caused by equipment failure. Approximately 36,174 sqft. of the Pad and Pasture was found to be damp upon initial inspection.

Release Information	
Date of Release	10/13/2023
Type of Release	Crude Oil and Produced Water
Source of Release	Equipment Failure
Volume Released – Produced Water	15 bbls
Volume Recovered – Produced Water	15 bbls
Volume Released – Crude Oil	2 bbls
Volume Recovered – Crude Oil	2 bbls
Affected Area – Damp Soil	Pad and Pasture - Approximately 36,174 sqft.
Site Location Map	Attached

SITE CHARACTERIZATION AND CLOSURE CRITERIA**Depth to Groundwater/Wellhead Protection:**

Data Source	Well Number	Data Date	Depth (ft.)
NM OSE	L-15461-POD1	05/18/2023	95'
Soil Bore	DTW 4	02/06/2023	105'

Per the guidelines outlined in section 19.15.29.11(A)(2), the depth to groundwater must be determined where the release occurred. Following this criterion, the release will be treated within the 51 feet - 100 feet range to groundwater, as indicated in Table I of 19.15.29.12 NMAC. This classification is based on the assessment of well NM OSE POD L-15464-POD1, which is deemed to accurately represent the groundwater conditions at the release site. This determination is further supported by the accompanying "Groundwater Trend Map" provided.

On 02/06/2023, Kane Environmental Engineering along with Scarborough Drilling was onsite to drill a groundwater determination borehole (DTW 4) to 105' below ground surface within a ½ mile radius of the incident location. The borehole was left open for 96 hours and checked for the presence of groundwater. As a result, no water was detected at 105' below surface at the borehole location (32.80587, -103.52021). The driller log is attached for reference.

General Site Characterization:

Site Assessment	
Karst Potential	Low
Distance to Watercourse	> 1,000 ft.
Within 100 yr Floodplain	No
Pasture Impact	Yes

A risk-based site assessment/characterization was performed following the New Mexico Oil Conservation Division (NMOCD) Rule (Title 19 Chapter 15 Part 29) for releases on oil and gas development and production in New Mexico (effective August 14, 2018). To summarize the site assessment/characterization evaluation, the affected area has Low potential for cave and karst, and no other receptors (residence, school, hospital, institution, church, mining, municipal, or other ordinance boundaries) were located within the regulatorily promulgated distances from the site.

Closure Criteria:

On-Site & Off-Site 4ft bgs Recommended Remedial Action Levels (RRALs)	
Chlorides	10,000 mg/kg
TPH (GRO and DRO and MRO)	2,500 mg/kg
TPH (GRO and DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH will be applied to the top four feet of the pasture area if impacted by the release, per NMAC 19.15.29.13.D (1) for the top four feet of areas that will be reclaimed following remediation.

INITIAL ASSESSMENT AND REMEDIATION ACTIVITIES**Initial Sample Activities:**

Delineation Summary	
Delineation Dates	03/08/2024 - 03/29/2024
Depths Sampled	0' - 4'
Delineation Map	Attached
Laboratory Results	Table 1

All soil samples were placed into laboratory-supplied glassware, labeled, and maintained on ice until delivery to an NMOCD-approved laboratory (Cardinal Laboratories of Hobbs, NM) for the analysis of chloride using Method SM4500 Cl-B, Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by EPA Method 8021 B and Total Petroleum Hydrocarbon (TPH) constituents the by EPA 8015M.

Confirmation Activities:

Remediation Proposal	
Remediation Dates	Within 90 Days of NMOCD Approval
Liner Variance Request	None
Deferral Request	None
Proposed Depths Excavated	1' - 4'
Proposed Area of 5-point Confirmation Samples – Floors and Walls	400 sqft.
Estimated Volume of Excavated Soil	3,618 yards

Impacted soil within the release margins will be excavated and temporarily stockpiled on-site on a 6-mil plastic sheeting, pending final disposition. Unless a Variance Request has been approved, all Floor and On-Site Walls of the excavated area will be advanced until laboratory analytical results from confirmation soil samples indicate Chloride, Benzene, BTEX, and TPH concentrations are below the RRAL NMOCD Closure Criteria listed in the Table above, and all Off-Site Walls will be advanced to meet reclamation standards. Confirmation soil samples (five-point composites representing no more than 400 sqft. of the excavated area) will be collected from the floor and sidewalls.

Upon receiving laboratory analytical data showing that confirmation soil samples from the excavated areas yield results below the selected NMOCD Table 1 Closure Criteria, the impacted soil will be transported under manifest to a NMOCD-approved disposal facility. Upon approval, the excavated area will be backfilled with locally sourced, non-impacted "like" material.

SITE RECLAMATION AND RESTORATION

Areas affected by the release and the associated remediation activities will be restored to a condition which existed prior to the release to the extent practicable. The affected area will be contoured and/or compacted to provide erosion control, stability, and preservation of surface water flow.

Affected areas not on production pads and/or lease roads will be reseeded with a prescribed BLM, NMSLO, and/or Private Landowner requested seed mixture during the first favorable growing season following closure of the site in accordance with the applicable regulatory agency.

REQUEST FOR REMEDIATION PLAN APPROVAL

Supporting Documentation	
C-141, pages 3-5	Signed and Attached
Delineation Map	Attached
Depth to Groundwater Maps and Source	Attached
US NWI Map	Attached
FEMA Flood Hazard Map	Attached
USDA Soil Survey	Attached
Site Photography	Attached
Laboratory Analytics with COCs	Attached

The corrective actions will be completed within 90 days of receipt of approval of this proposal by the NMOCD. Upon completion of the proposed tasks, a Remediation Closure Request will be submitted, documenting remediation activities and results of confirmation samples.

Trinity Oilfield Services respectfully requests that the New Mexico Oil Conservation Division grant approval for this detailed Remediation Plan.

Sincerely,



Dan Dunkelberg
Project Manager



Cynthia Jordan
Project Scientist

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

MorningStar Operating LLC
VGWU P2 Satellite
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE #: NAPP2329249507



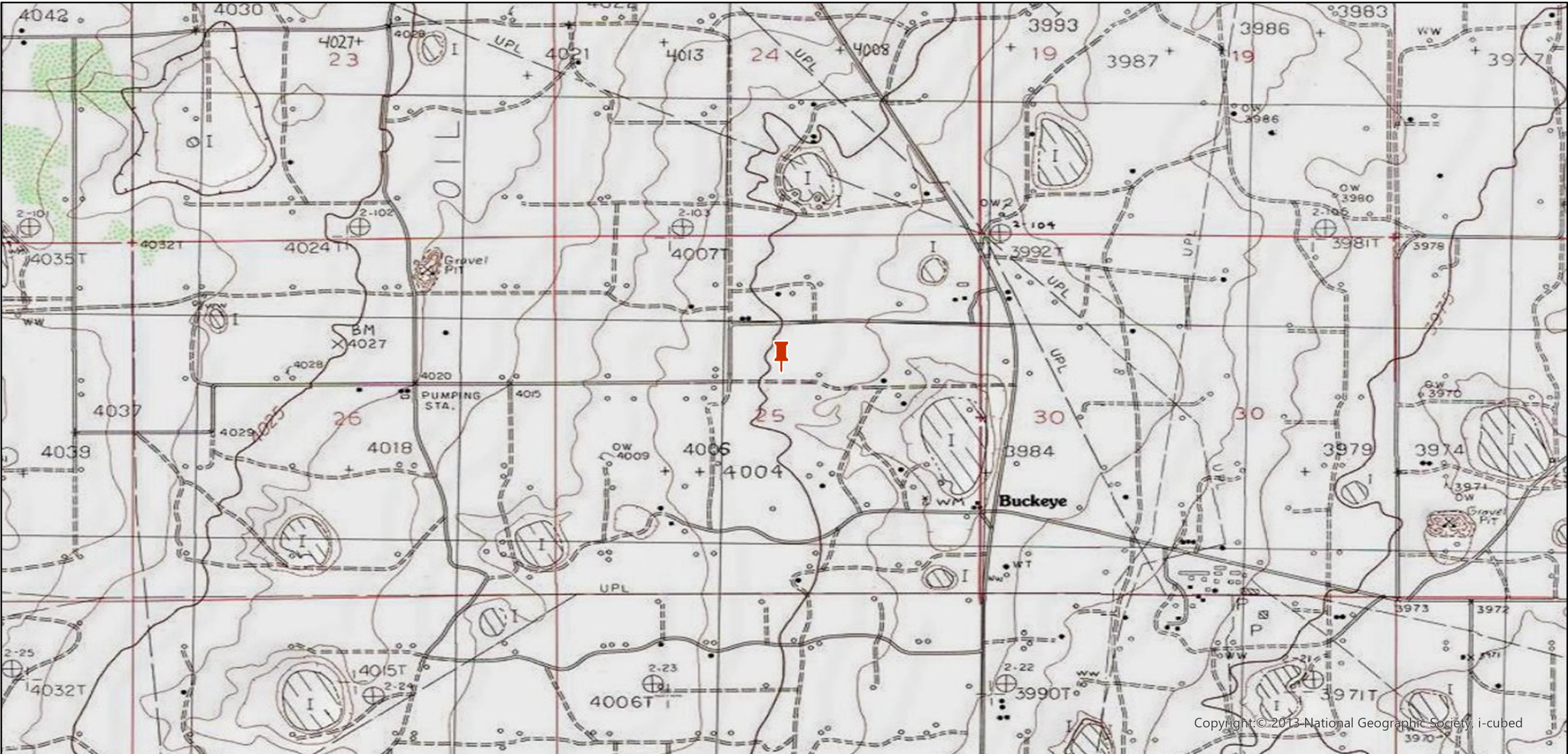
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	VERTICAL/ HORIZONTAL	OFF-SITE/ ON-SITE	SAMPLE TYPE	SOIL STATUS	CHLORIDE (mg/Kg)	TPH C6-C36 (mg/Kg)	GRO+ DRO (mg/kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	MRO C28-C36 (mg/Kg)	TOTAL BTEX (mg/Kg)	BENZENE (mg/Kg)
On-Site, & Deeper than 4' Pasture							10000	2500	1000	NE	NE	NE	50	10
Delineation Special Circumstance, NMOCD Delineation Limits Pasture to 4'							600	100	NE	NE	NE	NE	50	10
Vertical Delineation														
DV-001.0-00.0-P	0	3/11/2024	Vertical	On-Site	Grab	In-Situ	18,400.0	28.0	13.8	<10.0	13.8	14.2	<10.0	<10.0
DV-001.0-01.0-P	1	3/11/2024	Vertical	On-Site	Grab	In-Situ	2,560.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DV-001.0-03.0-P	3	3/18/2024	Vertical	On-Site	Grab	In-Situ	304.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DV-002.0-00.0-S	0	3/11/2024	Vertical	On-Site	Grab	In-Situ	10,300.0	309.0	188.0	<10.0	188.0	121.0	<10.0	<10.0
DV-002.0-02.0-S	2	3/11/2024	Vertical	On-Site	Grab	In-Situ	3,600.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DV-002.0-04.0-S	4	3/29/2024	Vertical	On-Site	Grab	In-Situ	80.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DV-003.0-00.0-S	0	3/11/2024	Vertical	On-Site	Grab	In-Situ	39,600.0	345.8	252.0	<10.0	252.0	93.8	<10.0	<10.0
DV-003.0-01.0-S	1	3/11/2024	Vertical	On-Site	Grab	In-Situ	4,960.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DV-003.0-04.0-S	4	3/18/2024	Vertical	On-Site	Grab	In-Situ	1,580.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DV-004.0-00.0-S	0	3/11/2024	Vertical	On-Site	Grab	In-Situ	36,800.0	79.2	55.1	<10.0	55.1	24.1	<10.0	<10.0
DV-004.0-01.0-S	1	3/11/2024	Vertical	On-Site	Grab	In-Situ	2,200.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DV-004.0-04.0-S	4	3/18/2024	Vertical	On-Site	Grab	In-Situ	384.0	13.0	13.0	<10.0	13.0	<10.0	<10.0	<10.0
DV-005.0-00.0-P	0	3/11/2024	Vertical	Off-Site	Grab	In-Situ	12,100.0	27,340.0	21,100.0	<10.0	21,100.0	6,240.0	<10.0	<10.0
DV-005.0-02.0-P	2	3/11/2024	Vertical	Off-Site	Grab	In-Situ	4,200.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DV-005.0-04.0-P	4	3/18/2024	Vertical	Off-Site	Grab	In-Situ	2,640.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DV-006.0-00.0-P	0	3/11/2024	Vertical	Off-Site	Grab	In-Situ	42,800.0	2,098.0	1,500.0	<10.0	1,500.0	598.0	<10.0	<10.0
DV-006.0-02.0-P	2	3/11/2024	Vertical	Off-Site	Grab	In-Situ	3,040.0	21.6	21.6	<10.0	21.6	<10.0	<10.0	<10.0
DV-006.0-04.0-P	4	3/18/2024	Vertical	Off-Site	Grab	In-Situ	1,100.0	10.2	10.2	<10.0	10.2	<10.0	<10.0	<10.0
DV-007.0-00.0-P	0	3/11/2024	Vertical	Off-Site	Grab	In-Situ	34,400.0	2,186.0	1,740.0	<10.0	1,740.0	446.0	<10.0	<10.0
DV-007.0-03.0-P	3	3/11/2024	Vertical	Off-Site	Grab	In-Situ	144.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DV-008.0-00.0-P	0	3/11/2024	Vertical	Off-Site	Grab	In-Situ	1,200.0	4,151.0	3,400.0	<10.0	3,400.0	751.0	<10.0	<10.0
DV-008.0-01.0-P	1	3/11/2024	Vertical	Off-Site	Grab	In-Situ	432.0	104.7	91.4	<10.0	91.4	13.3	<10.0	<10.0
DV-008.0-02.0-P	2	3/11/2024	Vertical	Off-Site	Grab	In-Situ	784.0	369.1	308.0	<10.0	308.0	61.1	<10.0	<10.0
DV-008.0-03.0-P	3	3/29/2024	Vertical	Off-Site	Grab	In-Situ	208.0	12.2	12.2	<10.0	12.2	<10.0	<10.0	<10.0
DV-008.0-04.0-P	4	3/29/2024	Vertical	Off-Site	Grab	In-Situ	64.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DV-009.0-00.0-P	0	3/11/2024	Vertical	Off-Site	Grab	In-Situ	44,000.0	2,848.0	2,260.0	<10.0	2,260.0	588.0	<10.0	<10.0
DV-009.0-02.0-P	2	3/11/2024	Vertical	Off-Site	Grab	In-Situ	2,240.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DV-009.0-04.0-P	4	3/18/2024	Vertical	Off-Site	Grab	In-Situ	400.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DV-010.0-00.0-P	0	3/11/2024	Vertical	Off-Site	Grab	In-Situ	7,600.0	67.8	52.9	<10.0	52.9	14.9	<10.0	<10.0
DV-010.0-02.0-P	2	3/11/2024	Vertical	Off-Site	Grab	In-Situ	3,040.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DV-010.0-04.0-P	4	3/18/2024	Vertical	Off-Site	Grab	In-Situ	656.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Horizontal Delineation														
DH-001.0-01.0-P	1	3/8/2024	Horizontal	Off-Site	Grab	In-Situ	48.0	56.4	39.4	<10.0	39.4	17.0	<10.0	<10.0
DH-002.0-01.0-P	1	3/8/2024	Horizontal	Off-Site	Grab	In-Situ	48.0	229.2	138.0	<10.0	138.0	91.2	<10.0	<10.0
DH-002.1-01.0-P	1	3/29/2024	Horizontal	Off-Site	Grab	In-Situ	48.0	33.0	10.9	<10.0	10.9	22.1	<10.0	<10.0
DH-003.0-01.0-P	1	3/8/2024	Horizontal	Off-Site	Grab	In-Situ	48.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DH-004.0-01.0-P	1	3/8/2024	Horizontal	On-Site	Grab	In-Situ	16.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DH-005.0-01.0-P	1	3/8/2024	Horizontal	Off-Site	Grab	In-Situ	32.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

MorningStar Operating LLC
 VGWU P2 Satellite
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE #: NAPP2329249507



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	VERTICAL/ HORIZONTAL	OFF-SITE/ ON-SITE	SAMPLE TYPE	SOIL STATUS	CHLORIDE (mg/Kg)	TPH C6-C36 (mg/Kg)	GRO+ DRO (mg/kg)	GRO C6-C10 (mg/Kg)	DRO C10-C28 (mg/Kg)	MRO C28-C36 (mg/Kg)	TOTAL BTEX (mg/Kg)	BENZENE (mg/Kg)
On-Site, & Deeper than 4' Pasture							10000	2500	1000	NE	NE	NE	50	10
Delineation Special Circumstance, NMOCD Delineation Limits Pasture to 4'							600	100	NE	NE	NE	NE	50	10
DH-006.0-01.0-P	1	3/8/2024	Horizontal	Off-Site	Grab	In-Situ	80.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DH-007.0-01.0-P	1	3/8/2024	Horizontal	Off-Site	Grab	In-Situ	48.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DH-008.0-01.0-P	1	3/8/2024	Horizontal	Off-Site	Grab	In-Situ	224.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DH-009.0-01.0-S	1	3/8/2024	Horizontal	On-Site	Grab	In-Situ	384.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DH-010.0-01.0-P	1	3/8/2024	Horizontal	Off-Site	Grab	In-Situ	80.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DH-011.0-01.0-P	1	3/8/2024	Horizontal	Off-Site	Grab	In-Situ	336.0	15.2	15.2	<10.0	15.2	<10.0	<10.0	<10.0
DH-012.0-01.0-P	1	3/8/2024	Horizontal	Off-Site	Grab	In-Situ	64.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DH-013.0-01.0-P	1	3/8/2024	Horizontal	Off-Site	Grab	In-Situ	144.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DH-014.0-01.0-P	1	3/8/2024	Horizontal	Off-Site	Grab	In-Situ	<16.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

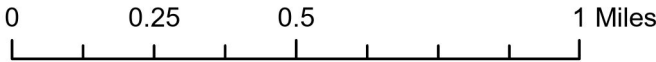


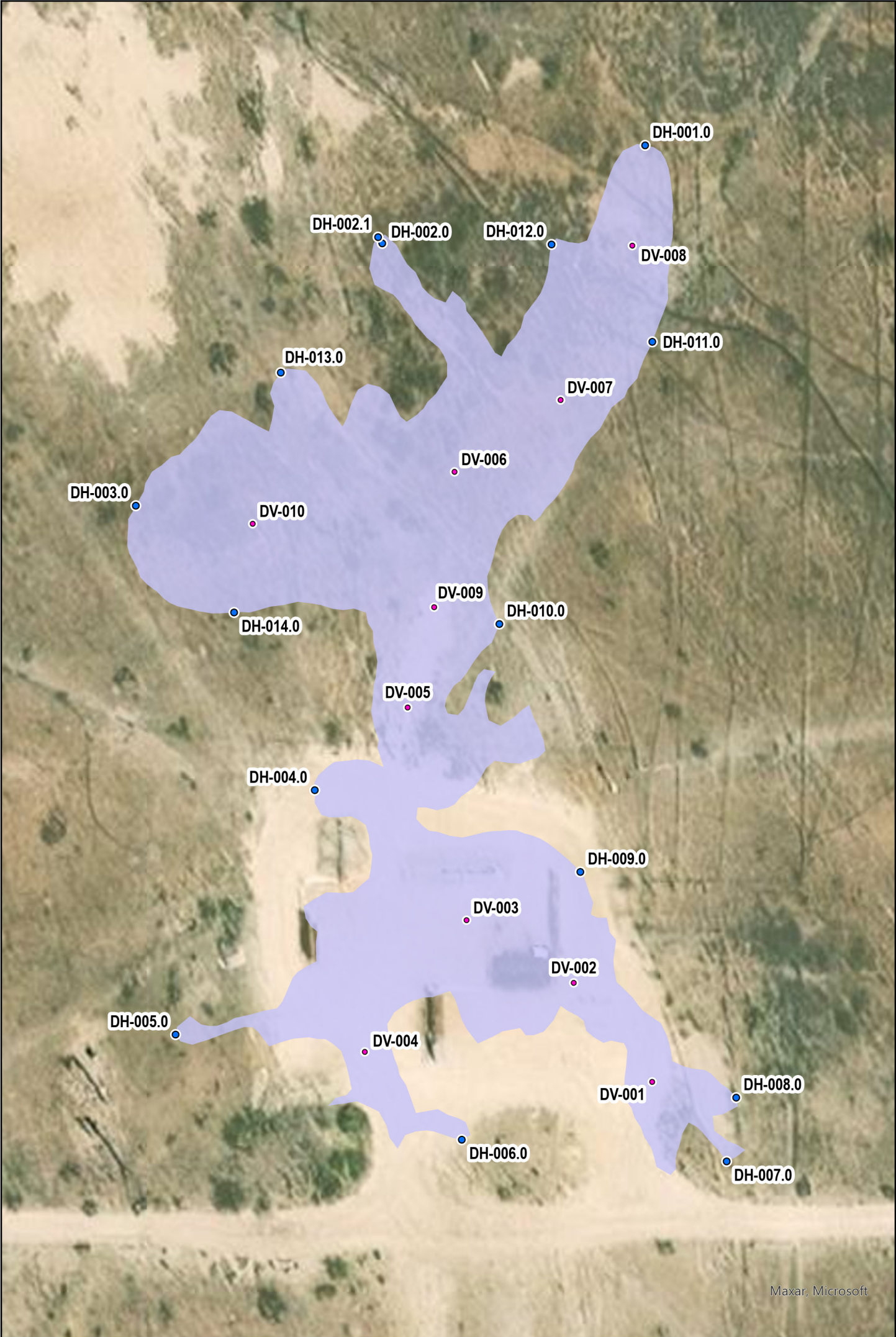
Legend:



Site Location

Site Location Map
MorningStar Operating LLC
VGWU P2 Satellite
Lea County, New Mexico
32.807884, -103.513437
NMOCD Reference # NAPP2329249507





Legend:

- Vertical Delineation
- Horizontal Delineation
- Release Area

Delineation Map
MorningStar Operating LLC
VGWU P2 Satellite
32.807884, -103.513437
Lea County, New Mexico
NMOCD Reference #
NAPP2329249507

0 25 50 100 Feet





Initial Release

On-Site:



On-Site:





Initial Release

On-Site:



On-Site:





Initial Release

Off-Site:



Off-Site:





Initial Release

Off-Site:



Off-Site:





Initial Release

Off-Site:



Off-Site:





Initial Release

Off-Site:



Off-Site:





Initial Release

Off-Site:



On-Site:





Initial Release

On-Site:



On-Site:



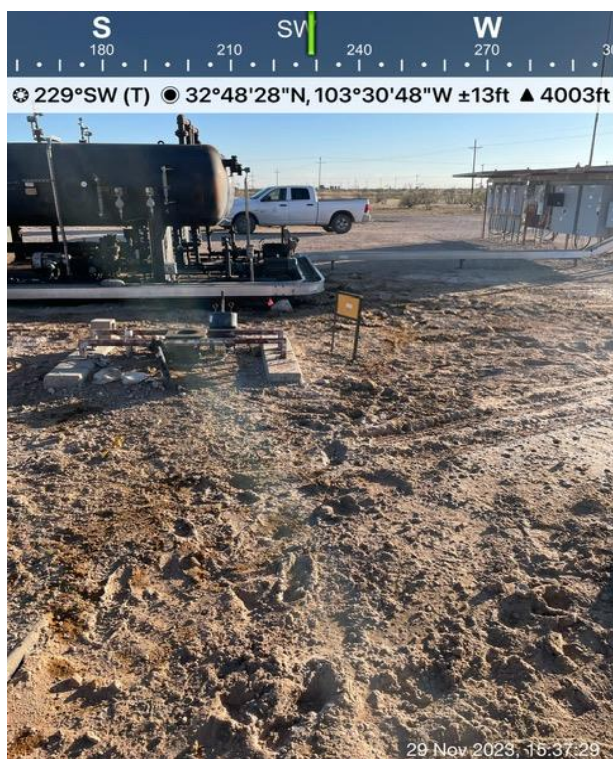


Initial Release

On-Site:



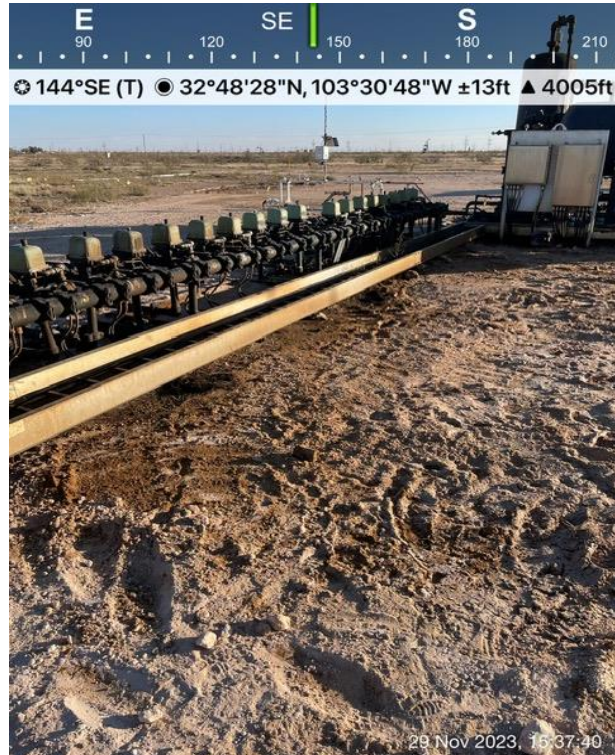
On-Site:





Initial Release

On-Site:



On-Site:





Initial Release

On-Site:



On-Site:





Initial Release

On-Site:



Off-Site:





Initial Release

Off-Site:



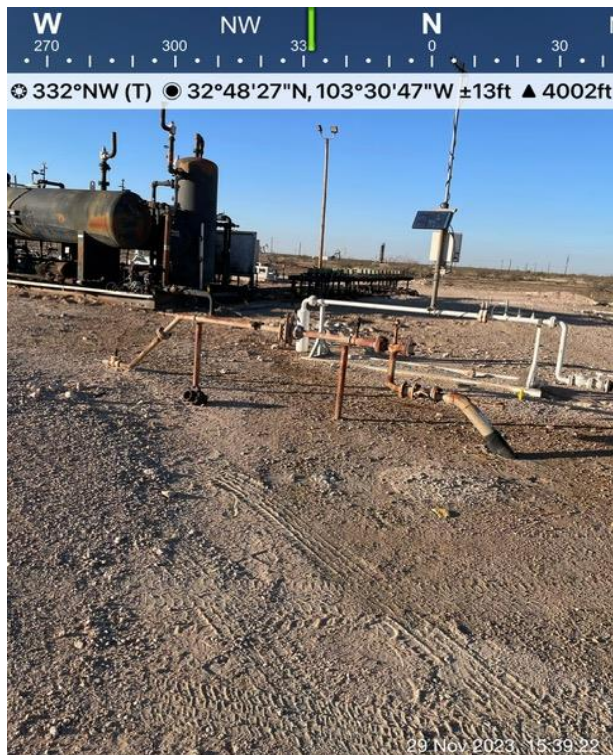
On-Site:





Initial Release


On-Site:





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	
21281	L	15461	POD1	4	2	2	25	17S	34E	639790	3631339 
Driller License:		1753		Driller Company:			VANGUARD WELL RESOURCES, LLC				
Driller Name:		JACOB FRIESSEN									
Drill Start Date:		05/11/2023		Drill Finish Date:			05/12/2023		Plug Date:		
Log File Date:		05/18/2023		PCW Rcv Date:			Source:			Shallow	
Pump Type:		Pipe Discharge Size:			Estimated Yield:			25 GPM			
Casing Size:		6.00		Depth Well:			234 feet		Depth Water:		95 feet
Water Bearing Stratifications:						Top	Bottom	Description			
						43	196	Sandstone/Gravel/Conglomerate			
						196	223	Sandstone/Gravel/Conglomerate			
Casing Perforations:						Top	Bottom				
						174	234				

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.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) L-15461 POD1		WELL TAG ID NO. 21281		OSE FILE NO(S). L-15461			
	WELL OWNER NAME(S) CROSS TIMBERS ENERGY, LLC				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 400 W. 7TH STREET				CITY STATE ZIP FORT WORTH TX 76102			
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 48	SECONDS 40 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	30	24 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SECTION 25 TOWNSHIP 17S RANGE 34E								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1753		NAME OF LICENSED DRILLER JACOB FRIESSEN			NAME OF WELL DRILLING COMPANY VANGUARD		
	DRILLING STARTED 05-11-2023	DRILLING ENDED 05-12-2023	DEPTH OF COMPLETED WELL (FT) 234		BORE HOLE DEPTH (FT) 234	DEPTH WATER FIRST ENCOUNTERED (FT) 95		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 110		DATE STATIC MEASURED 05-12-2023	
	DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input checked="" type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	-1	174	10.5	BLANK PVC SCH40	GLUE 6.5	6	.25	
	174	234	10.5	SCREEN PVC SCH40	GLUE 6.5	6	.25	.035
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0	20	10.5	CONCRETE	7	POURED		
	20	164	10.5	GRAVEL	53	POURED		
	164	234	10.5	SILICA SAND	25	POURED		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

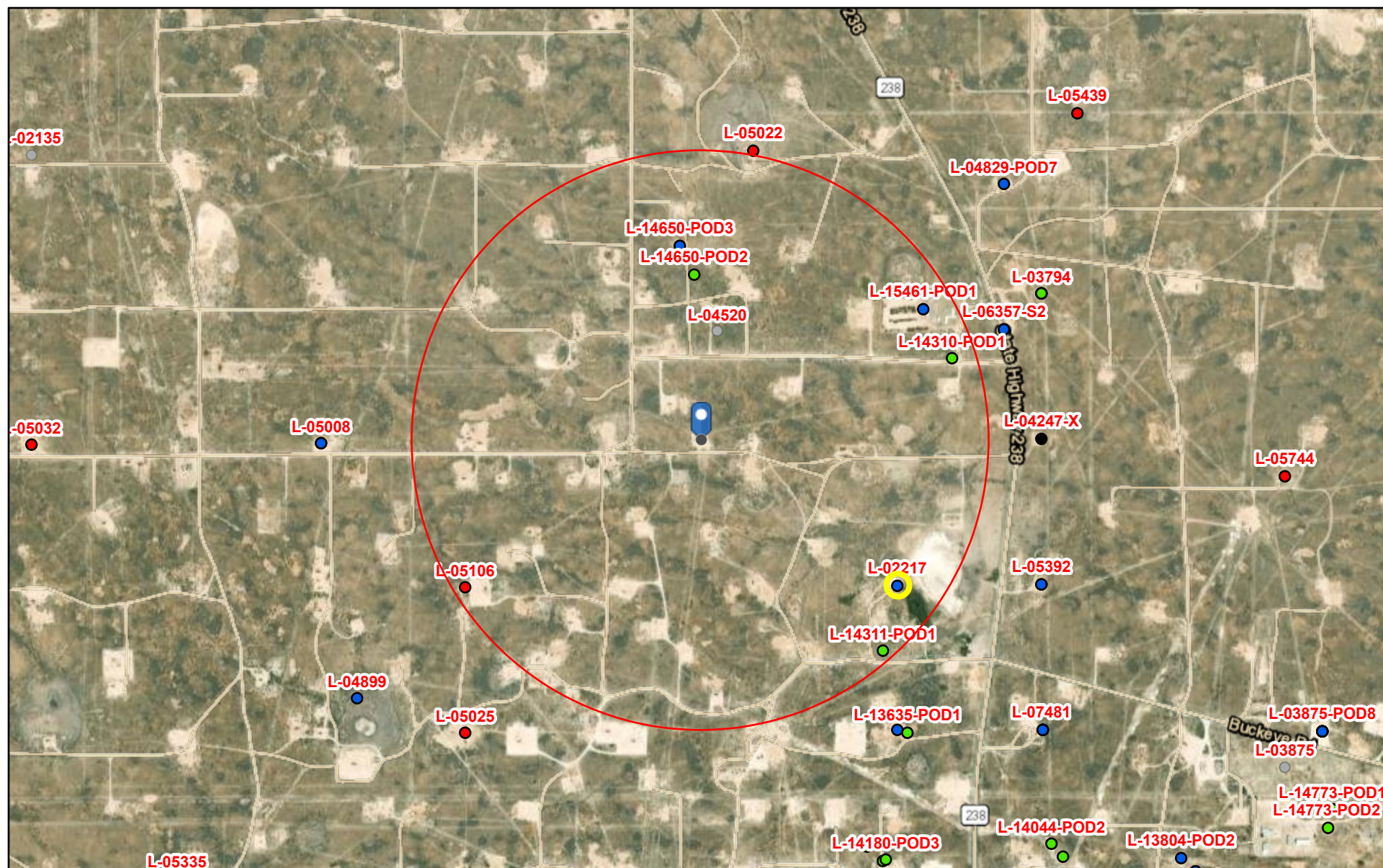
FILE NO.	L-15461	POD NO.	1	TRN NO.	746069
LOCATION	17S.34E.25	422	WELL TAG ID NO.	21281	PAGE 1 OF 2

DEPTH (feet bgl)	THICKNESS (feet)		COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO			
0	43	43	ROCK/CALICHE LAYERS	Y ✓ N	
43	196	153	SAND	✓ Y N	15.00
196	223	27	FINE GRAVEL CLAY MIXTURE	✓ Y N	10
223	230	7	LIMESTONE	Y ✓ N	
230	234	4	RED CLAY	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input checked="" type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:				TOTAL ESTIMATED WELL YIELD (gpm): 25	
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.			
	MISCELLANEOUS INFORMATION: <div>QSE DTI MAY 16 2023 PM 2:45</div>				
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:				
	<div> JACOB FRIESSEN</div> <div>05/15/2023</div> <div>SIGNATURE OF DRILLER / PRINT SIGNEE NAME</div> <div>DATE</div>				

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO. <u>L-15461</u>	POD NO. <u>4</u>	TRN NO. <u>746069</u>	
LOCATION <u>175.34E.25 422</u>		WELL TAG ID NO. <u>21281</u>	PAGE 2 OF 2

Kane Environmental Engineering Boring/Completion Log		Kane Environmental Engineering 2351 E. State Highway 21 Lincoln, TX 78948 Phone: 281-379-6580		1 OF 1
CLIENT: Morning Star Partners PROJECT: Depth to Water Program PROJECT NUMBER: LOCATION: Buckeye, N.M. BORING/WELL NAME: DTW 4 KANE REP: J. Rosen DRILLING METHOD: Coventional Rotary SAMPLING METHODS: Air Rotary Cuttings TOP CSG ELEV: GRND. ELEV:		Piezometer DTW 4		
START/END: February 6, 2023		DRILLER: Scarborough Drilling: License 2969AKP 3068AKP NM License: WD-1188		
5" borehole with tricone bit		LATITUDE: 32.80587 N LONGITUDE: -103.52021 W		
	CASING	DEPTH IN FEET	SOIL AND DRILLING DESCRIPTION	
			0 - 1.5' Topsoil, silty fine sand (SM-SP), w/angular pieces of caliche, brown, dry 1.5 - 25' Caliche, white to buff, lithified, hard	
		20	25 - 105' Sand (SP), creme to tan, very fine grained, soft, moisture content increases with depth Sand contains random thin interbeds of hard caliche	
		40		
		60	Switch to drag bit at 60', and add minimal water/foam to enhance cuttings removal	
		80		
		100	Total depth (from ground surface) 105 feet No groundwater encountered upon completion of drilling	
		120	Machine slotted, threaded, Schedule 40 PVC screen from 85 - 105 feet bgs, blank casing surface to 85 ft	

NAPP2329249507 | VGWU P2 SATELLITE



4/25/2024, 8:32:52 AM

GIS WATERS PODs

- Active

- Pending

- Inactive

- Capped

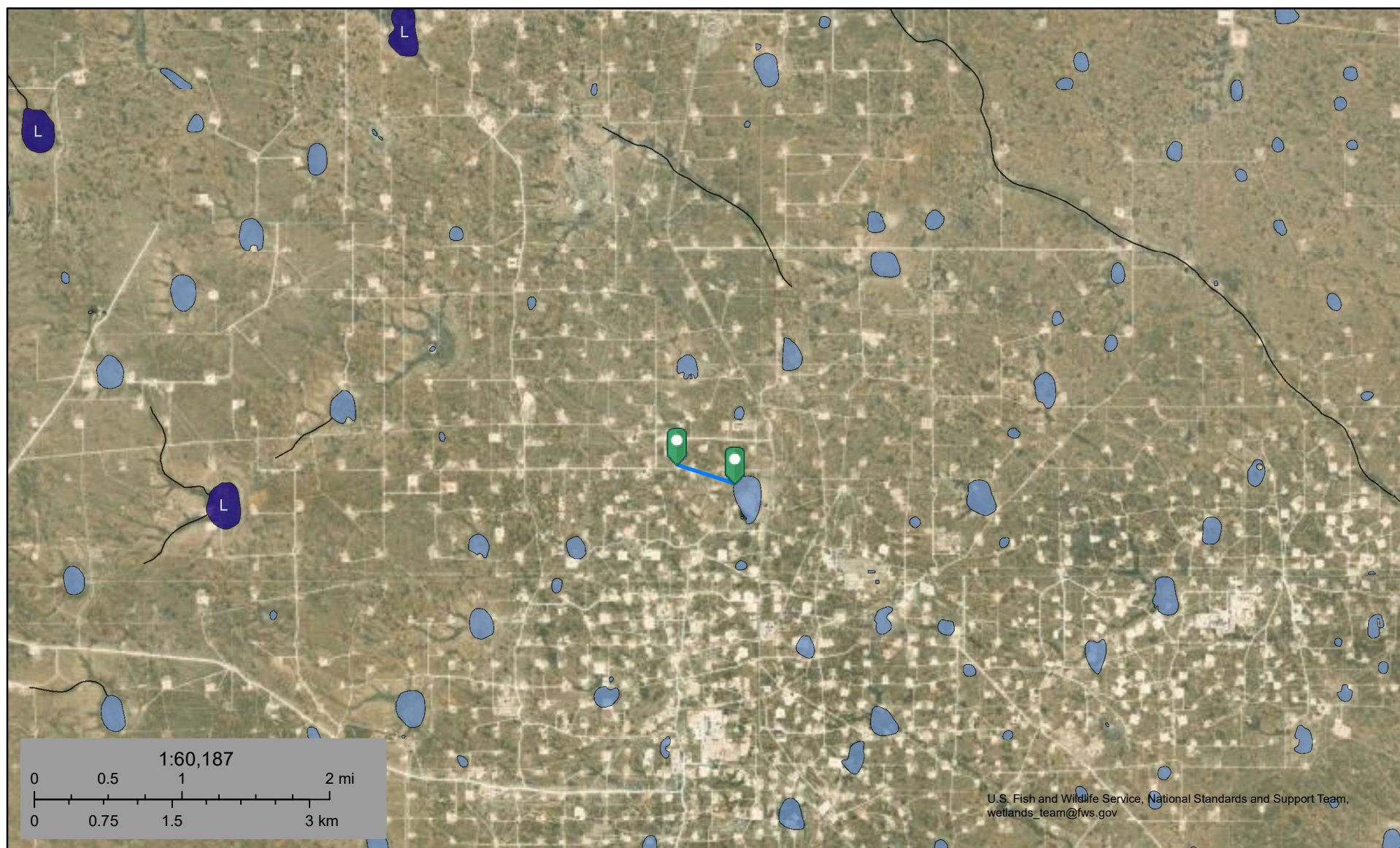
- Plugged

Online web user

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



NAPP2329249507 | VGWU P2 SATELLITE



April 25, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

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

National Flood Hazard Layer FIRMMette



103°31'7"W 32°48'44"N



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

1:6,000

103°30'30"W 32°48'13"N

Released to Imaging: 5/28/2024 4:23:06 PM

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		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



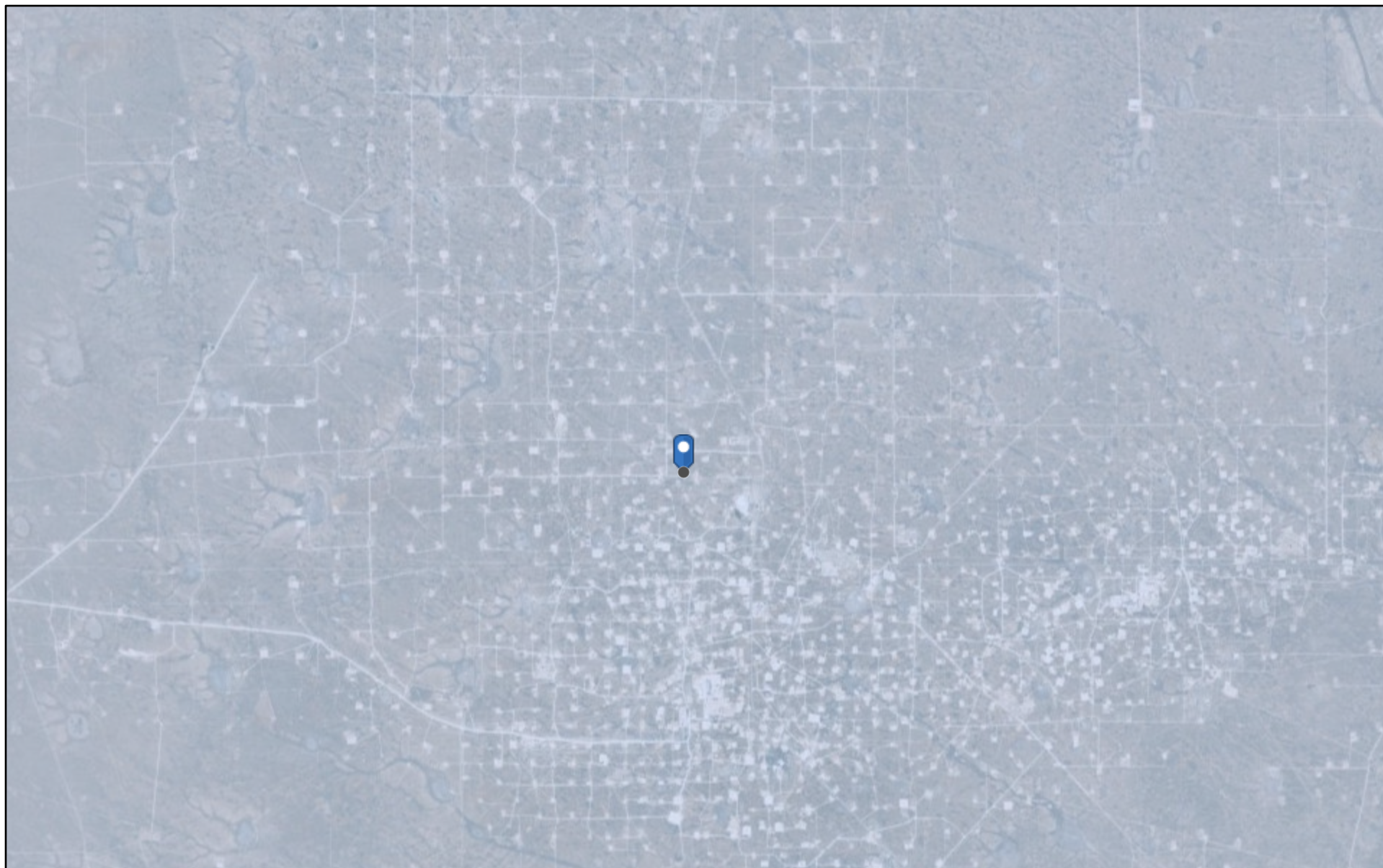
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 4/25/2024 at 11:27 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

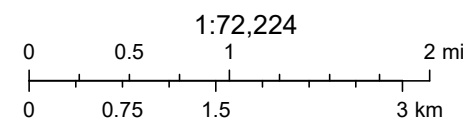
NAPP2329249507 | VGWU P2 SATELLITE



4/25/2024, 12:00:56 PM

Karst Occurrence Potential

 Low



BLM, OCD, New Mexico Tech, Earthstar Geographics

Soil Map—Lea County, New Mexico
(NAPP2329249507 | VGWU P2 SATELLITE)



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

4/25/2024
Page 1 of 3

Soil Map—Lea County, New Mexico
(NAPP2329249507 | VGWU P2 SATELLITE)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

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

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

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



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

4/25/2024
Page 2 of 3

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KO	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	0.3	2.6%
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	13.0	97.4%
Totals for Area of Interest		13.3	100.0%



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 18, 2024

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: VGWU SAT 2 BTY

Enclosed are the results of analyses for samples received by the laboratory on 03/12/24 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/18/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DH-001.0-01.0-P (H241258-01)

BTEX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44	
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05	
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34	
Total BTEX	<0.300	0.300	03/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/14/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37	
DRO >C10-C28*	39.4	10.0	03/13/2024	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	17.0	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/18/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DH-002.0-01.0-P (H241258-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/14/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37	
DRO >C10-C28*	138	10.0	03/13/2024	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	91.2	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/18/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DH-003.0-01.0-P (H241258-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/14/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/18/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DH-004.0-01.0-P (H241258-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44	
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05	
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34	
Total BTEX	<0.300	0.300	03/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/14/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/18/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DH-005.0-01.0-P (H241258-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/14/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/18/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DH-006.0-01.0-P (H241258-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/14/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/18/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DH-007.0-01.0-P (H241258-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/14/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.3 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/18/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DH-008.0-01.0-P (H241258-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	2.36	118	2.00	7.70		
Toluene*	<0.050	0.050	03/13/2024	ND	2.36	118	2.00	6.37		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	2.49	124	2.00	7.00		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	7.45	124	6.00	7.46		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/18/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DH-009.0-01.0-S (H241258-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	2.36	118	2.00	7.70		
Toluene*	<0.050	0.050	03/13/2024	ND	2.36	118	2.00	6.37		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	2.49	124	2.00	7.00		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	7.45	124	6.00	7.46		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	03/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/18/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DH-010.0-01.0-P (H241258-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	2.36	118	2.00	7.70		
Toluene*	<0.050	0.050	03/13/2024	ND	2.36	118	2.00	6.37		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	2.49	124	2.00	7.00		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	7.45	124	6.00	7.46		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/18/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DH-011.0-01.0-P (H241258-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	2.36	118	2.00	7.70		
Toluene*	<0.050	0.050	03/13/2024	ND	2.36	118	2.00	6.37		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	2.49	124	2.00	7.00		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	7.45	124	6.00	7.46		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	03/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2024	ND	195	97.6	200	4.37	
DRO >C10-C28*	15.2	10.0	03/14/2024	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	03/14/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/18/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DH-012.0-01.0-P (H241258-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	2.36	118	2.00	7.70		
Toluene*	<0.050	0.050	03/13/2024	ND	2.36	118	2.00	6.37		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	2.49	124	2.00	7.00		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	7.45	124	6.00	7.46		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	192	95.8	200	3.73	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	192	95.9	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/18/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DH-013.0-01.0-P (H241258-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	2.36	118	2.00	7.70		
Toluene*	<0.050	0.050	03/13/2024	ND	2.36	118	2.00	6.37		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	2.49	124	2.00	7.00		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	7.45	124	6.00	7.46		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	192	95.8	200	3.73	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	192	95.9	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/18/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DH-014.0-01.0-P (H241258-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	2.36	118	2.00	7.70		
Toluene*	<0.050	0.050	03/13/2024	ND	2.36	118	2.00	6.37		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	2.49	124	2.00	7.00		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	7.45	124	6.00	7.46		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	192	95.8	200	3.73	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	192	95.9	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Trinity Oilfield Services Project Manager: Dan Dunkelberg Address: 8426 N Dal Paso City: Hobbs Phone #: Project #: Project Name: VGWU SAT 2 Bty Project Location: Sampler Name: GM				BILL TO P.O. #: Company: MorningStar Operating Attn: Brandon Rodriguez Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST														
FOR LAB USE ONLY Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS	GROUNDWATER WASTEWATER	SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE	TIME	Chloride	TPH	BTEX										
1	DH-001.0-01.0-P	G 1	X					3/8/2024		X	X	X										
2	DH-002.0-01.0-P	G 1	X					3/8/2024		X	X	X										
3	DH-003.0-01.0-P	G 1	X					3/8/2024		X	X	X										
4	DH-004.0-01.0-P	G 1	X					3/8/2024		X	X	X										
5	DH-005.0-01.0-P	G 1	X					3/8/2024		X	X	X										
6	DH-006.0-01.0-P	G 1	X					3/8/2024		X	X	X										
7	DH-007.0-01.0-P	G 1	X					3/8/2024		X	X	X										
8	DH-008.0-01.0-P	G 1	X					3/8/2024		X	X	X										
9	DH-009.0-01.0-S	G 1	X					3/8/2024		X	X	X										
10	DH-010.0-01.0-P	G 1	X					3/8/2024		X	X	X										

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Relinquished By: Date: 3-12-24 Time: 1:54	Received By: Date: Time:	Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By: Date: Time:	Received By: Date: Time:	REMARKS:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 24 Corrected Temp. °C	Sample Condition Cool Intact Yes Yes No No	CHECKED BY: (Initials) 	Turnaround Time: Standard X Rush Thermometer ID #140 Correction Factor @ °C	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Released to Imaging: 5/28/2024 1:23:06 PM



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 14, 2024

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: VGWU SAT 2 BTY

Enclosed are the results of analyses for samples received by the laboratory on 03/12/24 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-001.0-00.0-P (H241257-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2024	ND	2.50	125	2.00	1.96	
Toluene*	<0.050	0.050	03/14/2024	ND	2.36	118	2.00	0.319	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	2.37	118	2.00	2.85	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	7.21	120	6.00	3.56	
Total BTEX	<0.300	0.300	03/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	03/14/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	200	100	200	2.75	
DRO >C10-C28*	13.8	10.0	03/13/2024	ND	216	108	200	0.801	
EXT DRO >C28-C36	14.2	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-001.0-01.0-P (H241257-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2024	ND	2.50	125	2.00	1.96	
Toluene*	<0.050	0.050	03/14/2024	ND	2.36	118	2.00	0.319	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	2.37	118	2.00	2.85	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	7.21	120	6.00	3.56	
Total BTEX	<0.300	0.300	03/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2560	16.0	03/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	200	100	200	2.75	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	216	108	200	0.801	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-002.0-00.0-S (H241257-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10300	16.0	03/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	200	100	200	2.75	
DRO >C10-C28*	188	10.0	03/13/2024	ND	216	108	200	0.801	
EXT DRO >C28-C36	121	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-002.0-02.0-S (H241257-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	03/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	200	100	200	2.75	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	216	108	200	0.801	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-003.0-00.0-S (H241257-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	39600	16.0	03/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	200	100	200	2.75	
DRO >C10-C28*	252	10.0	03/13/2024	ND	216	108	200	0.801	
EXT DRO >C28-C36	93.8	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-003.0-01.0-S (H241257-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4960	16.0	03/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	200	100	200	2.75	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	216	108	200	0.801	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-004.0-00.0-S (H241257-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	36800	16.0	03/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	200	100	200	2.75	
DRO >C10-C28*	55.1	10.0	03/13/2024	ND	216	108	200	0.801	
EXT DRO >C28-C36	24.1	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-004.0-01.0-S (H241257-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	03/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	200	100	200	2.75	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	216	108	200	0.801	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-005.0-00.0-P (H241257-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/14/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/14/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12100	16.0	03/14/2024	ND	432	108	400	3.64	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	03/14/2024	ND	200	100	200	2.75	
DRO >C10-C28*	21100	100	03/14/2024	ND	216	108	200	0.801	
EXT DRO >C28-C36	6240	100	03/14/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 938 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-005.0-02.0-P (H241257-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4200	16.0	03/14/2024	ND	432	108	400	3.64	
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	200	100	200	2.75	
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	216	108	200	0.801	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	81.5 %	48.2-134							
Surrogate: 1-Chlorooctadecane	86.7 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-006.0-00.0-P (H241257-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	42800	16.0	03/14/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	200	100	200	2.75	
DRO >C10-C28*	1500	10.0	03/13/2024	ND	216	108	200	0.801	
EXT DRO >C28-C36	598	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-006.0-02.0-P (H241257-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	03/14/2024	ND	432	108	400	3.64	
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	200	100	200	2.75	
DRO >C10-C28*	21.6	10.0	03/13/2024	ND	216	108	200	0.801	
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND					
Surrogate: 1-Chlorooctane	107 %	48.2-134							
Surrogate: 1-Chlorooctadecane	114 %	49.1-148							

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-007.0-00.0-P (H241257-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	34400	16.0	03/14/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37	
DRO >C10-C28*	1740	10.0	03/13/2024	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	446	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-007.0-03.0-P (H241257-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/14/2024	ND	432	108	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37		
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	192	95.9	200	3.28		
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND						
Surrogate: 1-Chlorooctane		96.9 %	48.2-134							
Surrogate: 1-Chlorooctadecane		91.1 %	49.1-148							

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-008.0-00.0-P (H241257-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	03/14/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37	
DRO >C10-C28*	3400	10.0	03/13/2024	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	751	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-008.0-01.0-P (H241257-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	03/14/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37	
DRO >C10-C28*	91.4	10.0	03/13/2024	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	13.3	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-008.0-02.0-P (H241257-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	03/14/2024	ND	432	108	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37		
DRO >C10-C28*	308	10.0	03/13/2024	ND	192	95.9	200	3.28		
EXT DRO >C28-C36	61.1	10.0	03/13/2024	ND						
Surrogate: 1-Chlorooctane	95.1 %	48.2-134								
Surrogate: 1-Chlorooctadecane	96.1 %	49.1-148								

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-009.0-00.0-P (H241257-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	44000	16.0	03/14/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37	
DRO >C10-C28*	2260	10.0	03/13/2024	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	588	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-009.0-02.0-P (H241257-19)

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	03/14/2024	ND	432	108	400	3.64		
TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37		
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	192	95.9	200	3.28		
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND						
Surrogate: 1-Chlorooctane	90.2 %	48.2-134								
Surrogate: 1-Chlorooctadecane	88.0 %	49.1-148								

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-010.0-00.0-P (H241257-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/13/2024	ND	1.96	98.1	2.00	1.44		
Toluene*	<0.050	0.050	03/13/2024	ND	2.02	101	2.00	3.05		
Ethylbenzene*	<0.050	0.050	03/13/2024	ND	1.99	99.4	2.00	3.01		
Total Xylenes*	<0.150	0.150	03/13/2024	ND	6.03	101	6.00	3.34		
Total BTEX	<0.300	0.300	03/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7600	16.0	03/14/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37	
DRO >C10-C28*	52.9	10.0	03/13/2024	ND	192	95.9	200	3.28	
EXT DRO >C28-C36	14.9	10.0	03/13/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/12/2024
 Reported: 03/14/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-010.0-02.0-P (H241257-21)

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	03/14/2024	ND	432	108	400	3.64		
TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/13/2024	ND	195	97.6	200	4.37		
DRO >C10-C28*	<10.0	10.0	03/13/2024	ND	192	95.9	200	3.28		
EXT DRO >C28-C36	<10.0	10.0	03/13/2024	ND						
Surrogate: 1-Chlorooctane	94.9 %	48.2-134								
Surrogate: 1-Chlorooctadecane	90.9 %	49.1-148								

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Trinity Oilfield Services				BILL TO				ANALYSIS REQUEST																	
Project Manager: Dan Dunkelberg				P.O. #:																					
Address: 8426 N Dal Paso				Company: MorningStar Operating																					
City: Hobbs		State: NM Zip: 88241		Attn: Brandon Rodriguez																					
Phone #:				Fax #:																					
Project #:				Address:																					
Project Name: VGWU SAT 2 Bty				City:																					
Project Location:				State: Zip:																					
Sampler Name: GM				Phone #:																					
Fax #:																									
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		GRAB OR (COMP. # CONTAINERS)		MATRIX		PRESERV.		SAMPLING															
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE		TIME		Chloride		TPH		BTEX							
11		DV-006.0-00.0-P		G 1		X				3/11/0224				X		X		X							
12		DV-006.0-02.0-P		G 1		X				3/11/0224				X		X									
13		DV-007.0-00.0-P		G 1		X				3/11/0224				X		X		X							
14		DV-007.0-03.0-P		G 1		X				3/11/0224				X		X									
15		DV-008.0-00.0-P		G 1		X				3/11/0224				X		X		X							
16		DV-008.0-01.0-P		G 1		X				3/11/0224				X		X		X							
17		DV-008.0-02.0-P		G 1		X				3/11/0224				X		X									
18		DV-009.0-00.0-P		G 1		X				3/11/0224				X		X		X							
19		DV-009.0-02.0-P		G 1		X				3/11/0224				X		X									
20		DV-010.0-00.0-P		G 1		X				3/11/0224				X		X		X							
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Relinquished By:				Date: 3-12-24		Received By:				Verbal Result:				Yes		No		Add'l Phone #:							
				Time: 7540						All Results are emailed. Please provide Email address:															
Relinquished By:				Date:		Received By:				REMARKS:															
				Time:																					
Delivered By: (Circle One)				Observed Temp. °C: 24		Sample Condition		CHECKED BY:		Turnaround Time:				Standard		X		Bacteria (only) Sample Condition							
Sampler - UPS - Bus - Other:				Corrected Temp. °C		Cool Intact		(Initials)		Thermometer ID #140				Rush				Cool Intact Observed Temp. °C							
						Yes Yes		No No		Correction Factor 0 °C								Cool Intact Observed Temp. °C							

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 25, 2024

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: VGWU SAT 2 BTY

Enclosed are the results of analyses for samples received by the laboratory on 03/20/24 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/20/2024
 Reported: 03/25/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: DV-001.0-03.0-P (H241460-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/22/2024	ND	432	108	400	3.64	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	178	88.8	200	1.49	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	193	96.3	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					
Surrogate: 1-Chlorooctane		120 %	48.2-134						
Surrogate: 1-Chlorooctadecane		143 %	49.1-148						

Sample ID: DV-003.0-04.0-S (H241460-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	03/22/2024	ND	432	108	400	3.64	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	178	88.8	200	1.49	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	193	96.3	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					
Surrogate: 1-Chlorooctane	120 %	48.2-134							
Surrogate: 1-Chlorooctadecane	145 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/20/2024
 Reported: 03/25/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: DV-004.0-04.0-S (H241460-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/22/2024	ND	432	108	400	3.64	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	178	88.8	200	1.49	
DRO >C10-C28*	13.0	10.0	03/21/2024	ND	193	96.3	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					
Surrogate: 1-Chlorooctane	105 %	48.2-134							
Surrogate: 1-Chlorooctadecane	122 %	49.1-148							

Sample ID: DV-005.0-04.0-P (H241460-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	03/22/2024	ND	432	108	400	3.64	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	178	88.8	200	1.49	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	193	96.3	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					
Surrogate: 1-Chlorooctane	115 %	48.2-134							
Surrogate: 1-Chlorooctadecane	141 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/20/2024
 Reported: 03/25/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: DV-006.0-04.0-P (H241460-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	03/22/2024	ND	432	108	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	178	88.8	200	1.49		
DRO >C10-C28*	10.2	10.0	03/21/2024	ND	193	96.3	200	2.48		
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND						
Surrogate: 1-Chlorooctane	105 %	48.2-134								
Surrogate: 1-Chlorooctadecane	125 %	49.1-148								

Sample ID: DV-009.0-04.0-P (H241460-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/22/2024	ND	432	108	400	3.64	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	178	88.8	200	1.49	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	193	96.3	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					
Surrogate: 1-Chlorooctane	114 %	48.2-134							
Surrogate: 1-Chlorooctadecane	136 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 03/20/2024
 Reported: 03/25/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/18/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: DV-010.0-04.0-P (H241460-07)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: CT**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	03/22/2024	ND	432	108	400	3.64	

TPH 8015M**mg/kg****Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/21/2024	ND	178	88.8	200	1.49	
DRO >C10-C28*	<10.0	10.0	03/21/2024	ND	193	96.3	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	03/21/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Trinity Oilfield Services

BILL TO

Project Manager: Dan Dunkelberg

P.O. #:

Address: 8426 N Dal Paso

Company: MorningStar Operating

City: Hobbs

State: NM Zip: 88241

Attn: Brandon Rodriguez

Phone #:

Fax #:

Address:

Project #:

Project Owner: (see below)

City:

Project Name: VGWU SAT 2 Bty

dan@trinityoilfieldservices.com

State:

Zip:

Project Location:

Phone #:

Sampler Name: GM

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

H241460

Lab I.D.

Sample I.D.

(GRAB OR COMPOUND)

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

MATRIX

PRESERV.

SAMPLING

DATE

TIME

Chloride

TPH

BTEX

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Relinquished By:

Date:

5-20-24

Time:

10:25

Received By:

DA

Verbal Result:

Yes

No

Add'l Phone #:

All Results are emailed. Please provide Email address:

Relinquished By:

Date:

Time:

Received By:

REMARKS:

Delivered By: (Circle One)

Observed Temp. °C

1.30

Sample Condition

Cool Intact

Yes Yes

No No

CHECKED BY:

(Initials)

DA

Turnaround Time:

Standard

X

Rush

Bacteria (only) Sample Condition

Cool Intact

Yes Yes

No No

Observed Temp. °C

Corrected Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Thermometer ID #140

Correction Factor 0 °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 09, 2024

DAN DUNKELBERG

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: VGWU SAT 2 BTY

Enclosed are the results of analyses for samples received by the laboratory on 04/03/24 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DH-002.1-01.0-P (H241742-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/05/2024	ND	2.14	107	2.00	3.37		
Toluene*	<0.050	0.050	04/05/2024	ND	2.09	105	2.00	3.38		
Ethylbenzene*	<0.050	0.050	04/05/2024	ND	2.01	101	2.00	3.27		
Total Xylenes*	<0.150	0.150	04/05/2024	ND	5.83	97.2	6.00	3.51		
Total BTEX	<0.300	0.300	04/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/08/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	218	109	200	2.45	
DRO >C10-C28*	10.9	10.0	04/04/2024	ND	224	112	200	0.883	
EXT DRO >C28-C36	22.1	10.0	04/04/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-002.0-04.0-S (H241742-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/08/2024	ND	432	108	400	3.64	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	218	109	200	2.45	
DRO >C10-C28*	<10.0	10.0	04/04/2024	ND	224	112	200	0.883	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					
Surrogate: 1-Chlorooctane	93.3 %	48.2-134							
Surrogate: 1-Chlorooctadecane	98.8 %	49.1-148							

Sample ID: DV-008.0-03.0-P (H241742-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/08/2024	ND	432	108	400	3.64	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	218	109	200	2.45	
DRO >C10-C28*	12.2	10.0	04/04/2024	ND	224	112	200	0.883	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					
Surrogate: 1-Chlorooctane	92.4 %	48.2-134							
Surrogate: 1-Chlorooctadecane	98.1 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
 DAN DUNKELBERG
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

Received: 04/03/2024
 Reported: 04/09/2024
 Project Name: VGWU SAT 2 BTY
 Project Number: NONE GIVEN
 Project Location: MORNINGSTAR OP

Sampling Date: 03/29/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV-008.0-04.0-P (H241742-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/08/2024	ND	432	108	400	3.64	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/04/2024	ND	218	109	200	2.45	
DRO >C10-C28*	<10.0	10.0	04/04/2024	ND	224	112	200	0.883	
EXT DRO >C28-C36	<10.0	10.0	04/04/2024	ND					
Surrogate: 1-Chlorooctane	83.3 %	48.2-134							
Surrogate: 1-Chlorooctadecane	88.8 %	49.1-148							

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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

QUESTIONS

Action 337536

QUESTIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 337536
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2329249507
Incident Name	NAPP2329249507 VGWU P2 SATELLITE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2134146802] VGWU P2 Satellite

Location of Release Source	
Please answer all the questions in this group.	
Site Name	VGWU P2 SATELLITE
Date Release Discovered	10/13/2023
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Other (Specify) Crude Oil Released: 2 BBL Recovered: 2 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Other (Specify) Produced Water Released: 15 BBL Recovered: 15 BBL Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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)	PRODUCTION HEADER

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QUESTIONS, Page 2

Action 337536

QUESTIONS (continued)

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID:
	330132
	Action Number:
	337536
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

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

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Dan Dunkelberg Title: Consultant Email: dan@trinityoilfieldservices.com Date: 05/20/2024
--	---

District I

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

QUESTIONS, Page 3

Action 337536

QUESTIONS (continued)

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID:	330132
	Action Number:	337536
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	44000
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	27340
GRO+DRO	(EPA SW-846 Method 8015M)	21100
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	08/05/2024
On what date will (or did) the final sampling or liner inspection occur	08/05/2024
On what date will (or was) the remediation complete(d)	11/01/2024
What is the estimated surface area (in square feet) that will be reclaimed	36174
What is the estimated volume (in cubic yards) that will be reclaimed	4020
What is the estimated surface area (in square feet) that will be remediated	36174
What is the estimated volume (in cubic yards) that will be remediated	3618

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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QUESTIONS, Page 4

Action 337536

QUESTIONS (continued)

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID:	330132
	Action Number:	337536
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Sundance Services, Inc [fKJ1600527371]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dan Dunkelberg Title: Consultant Email: dan@trinityoilfieldservices.com Date: 05/20/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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State of New Mexico
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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 5

Action 337536

QUESTIONS (continued)

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 337536
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

District I
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Phone:(575) 393-6161 Fax:(575) 393-0720
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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

QUESTIONS, Page 6

Action 337536

QUESTIONS (continued)

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID:	330132
	Action Number:	337536
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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
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CONDITIONS

Action 337536

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 337536
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved as written. Morningstar has 90-days (August 26, 2024) to submit to OCD its appropriate or final remediation closure report.	5/28/2024