

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	nRM2003858408
District RP	
Facility ID	
Application ID	

Release Notification
Responsible Party

Responsible Party	Spur Energy Partners LLC	OGRID	328947
Contact Name	Ryan Barber	Contact Telephone	832-544-9267
Contact email	rbarber@spurepllc.com	Incident #	(assigned by OCD)
Contact mailing address	920 Memorial City Way, Suite 1000 Houston, TX 77024		

Location of Release Source

Latitude 32.6114693 Longitude -104.4704819
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Lakewood Federal #1	Site Type	Well pad
Date Release Discovered	July 20, 2019	API# (if applicable)	30-015-24231

Unit Letter	Section	Township	Range	County
O	34	19S	25E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 10	Volume Recovered (bbls) 5
	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
During completion of the Huber Fed 10H and 12H, the Lakewood Fed #1 saw pressure from the frac and produced water leaked out from the wellhead.


Form C-141

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State of New Mexico
Oil Conservation Division

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

Printed Name: Todd Muela Title: EVP-ops
Signature:  Date: 12/14/11
email: Todd@spaceplc.com Telephone: 832-930-8502

OCD Only

Received by: _____ Date: _____

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	
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Facility ID	
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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.

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Printed Name: Toon Muela Title: EVP-Op
 Signature: [Signature] Date: 12/12/15
 email: Todd@spacelife.com Telephone: 832-930-8502

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	NRM2003858408
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kathy Purvis Title: EHS Coordinator

Signature: Kathy Purvis Date: 08/30/2023

email: katherine.purvis@spurenergy.com Telephone: (575) 441-8619

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



August 22, 2023

Spur Energy Partners LLC
9655 Katy Frwy, Ste. 500
Houston, Texas 77024

Attn: New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Re: Amended Closure Report
Lakewood Federal #1
Unit O, Section 34, T19S, R25E
Eddy County, New Mexico
NMOCD Incident ID: NRM2003858408

To Whom It May Concern:

On July 25, 2019, Terracon was requested to oversee the remediation of a reportable release at the Lakewood Federal #1 site. Terracon personnel was informed that a release of produced water of a reportable quantity had taken place at the site. Surface ownership is held by the Bureau of Land Management (BLM). The release was 10 bbls, of which 5 bbls were recovered utilizing a vacuum truck, the New Mexico Oil Conservation District (NMOCD) was notified on July 20, 2019.

Action Items

Completed Actions

- 1) On October 18, 2019, Terracon submitted a closure report documenting the assessment and remedial efforts executed to mitigate the release.
- 2) The NMOCD denied the closure report on July 1, 2022. The reasons cited for denial are as follows.
- 3) The site was designated as a high karst potential area, this amended closure report addresses the more conservative remediation action levels (RALs) and the vertical and horizontal delineation associated with the new standards.
- 4) The denial cites the original report's estimated square footage of 2,000 sq ft and assumes the remediation was also 2,000 sq ft. However, during the initial assessment, it was raining heavily; therefore, this estimate was overly liberal. When remediation commenced (guided by testing results), it was noted that the actual release area was only 1,000 sq ft.
- 5) The additional remediation at the site addressed the elevated constituents left remaining around the previously in-place pump jack.
- 6) The composite sampling at the site matched the NMOCD's requirement of 200 sq. ft.

Anticipated Actions

- 1) Approval of the amended closure report by the NMOCD.

Amended Closure Report

Lakewood Federal #1 ■ Eddy County, New Mexico

August 22, 2023 ■ Terracon Project No. AR197257

Regulatory Criteria

The nearest groundwater elevation data was obtained from the New Mexico Office of the State Engineer (NMOSE) website and indicated that depth to groundwater was measured at approximately 121 feet below grade surface (bgs) and the well was located 1.5 miles southeast of the site. A review of geospatial data obtained from the BLM Carlsbad Field Office website indicated that the site is within an area of high risk for karst formations. Per New Mexico Administrative Code (NMAC) 19.15.29.12 remediation and closure criteria for a depth to groundwater of less than 50 feet was utilized for this release.

Constituent	Remediation Limits
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Remedial Activities

On July 29, 2022, Terracon mobilized to the site to meet Terracon Remediation Construction Services (RCS), who were to perform soil remediation activities. Areas exhibiting visual impact were excavated to a depth of approximately 4 to 5 feet below the grade surface (bgs). A total of 13 composite soil samples were collected from the floor excavation, all samples were placed in laboratory-provided sample containers, preserved with ice, and transported under chain of custody to Cardinal Laboratories in Hobbs, New Mexico for analysis of benzene, toluene, ethylbenzene, and total xylenes (collectively known as BTEX), total petroleum hydrocarbons (TPH), and chlorides. Terracon returned on August 8, 2022, August 24, 2022, and September 27, 2022, to perform additional remedial actions at the site. On September 30, 2022, Terracon received the Cardinal Laboratories soil sample analytical report. The Analytical report indicated that all samples collected during the remediation activities were below the applicable NMOCD RALs for Oil and Gas soil remediations and reclamations.

In total, approximately 148 cubic yards were excavated during remedial activities. Excavated material was stockpiled on-site atop a polyethylene liner pending waste characterization.

See Exhibit 1 for a depiction of the excavation extent and confirmation sample locations.

Analytical Results

A total of 31 composite confirmation soil samples were collected throughout the entirety of the remedial effort and analyzed for TPH, BTEX, and chloride.

All soil samples collected did not exhibit concentrations of BTEX above laboratory sample detection limits (SDLs).

Responsive ■ Resourceful ■ Reliable

Amended Closure Report

Lakewood Federal #1 ■ Eddy County, New Mexico

August 22, 2023 ■ Terracon Project No. AR197257



Soil sample F-2 did exceed concentrations of Total TPH above the laboratory sample detection limits and above the applicable NMOCD criteria, but F-2.1 did not exceed the applicable NMOCD criteria of 100 milligrams per kilogram (mg/kg) for Total TPH.

Seventeen of the 31 composite confirmation oil samples exhibited concentrations of chlorides above laboratory SDLs and above the applicable NMOCD RAL of 600 mg/kg. Detected concentrations of chloride ranged from 608 mg/kg to 1,470 mg/kg.

All 13 of the final composite confirmation soil samples exhibited concentrations of chlorides above laboratory SDLs but below the NMOCD RAL of 600 mg/kg for chlorides.

A summary of BTEX, chloride, and TPH concentrations of all collected soil samples is attached as Table 1 under Appendix B.

Conclusion

In accordance with NMAC 19.15.29.12, remediation of the remaining impacted material proximate to excavation is below the NMOCD RALs. Terracon recommends no further action be taken regarding the release that occurred on July 25, 2019, at the Lakewood Federal #1 site and that this incident is considered to be closed.

Should you have any questions, please contact the undersigned at (806) 300 0140.

Sincerely,

The Terracon logo features a stylized 'T' composed of three colored squares (blue, green, and red) to the left of the word 'terracon' in a lowercase, sans-serif font.

Prepared by:

Reviewed by:

Joseph Guesnier
Office Manager – Carlsbad

Erin Loyd, P.G. (TX)
Senior Principal
Office Manager – Lubbock

Attachments**Appendix A – Exhibits**

Exhibit 1 – Photo Log

Exhibit 2 – Soil Management Plan

Exhibit 3 – Site Sample Map

Appendix B – Tables Procedures, and Figures

Table 1 – Soil Sample Analytical Results – BTEX, Chloride, and TPH

Appendix C – Analytical Report and Chain of Custody

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APPENDIX A – EXHIBITS

Lakewood Federal #1 ■ Eddy County, New Mexico
July 26, 2023 ■ Terracon Project No. AR197257

Terracon

PHOTO 1: View of excavation, facing east.



PHOTO 2: View of excavation, facing south.

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Lakewood Federal #1 ■ Eddy County, New Mexico
July 26, 2023 ■ Terracon Project No. AR197257

Terracon

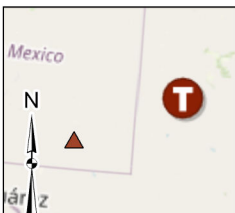
PHOTO 3: View of excavation sign, facing east.



PHOTO 4: View of excavation, facing north.

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Exhibit 2 – Soil Management Plan	
Soil Objectives	Approach Actions
General Soil Plan Square Footage In-Place Cubic Yards.	<u>Dig and Haul.</u> 1,000 sq. ft. 148 cu. Yds.
Reclamation Response Objectives	Remove soils with concentrations over the NMOCD RALs for constituents of concern (TPH, BTEX, chloride)
Remediation Response Objectives	Remove soils with concentrations over the NMOCD RALs for constituents of concern (TPH, BTEX, chloride)
Soil Management	Stockpiles were placed on polycarbonate sheeting (PCS) and bermed around the edges to reduce the loss of excavated soils.
Depth of Remediation Confirmation Soil Map – (Figure 3 in Appendix A)	The depth of the excavation did not exceed 4.25 ft. bgs.
Disposal Facility	Lealand landfill
Quantity Disposed	148 cubic yards



Excavation Boundary

Sample Location

Floor

Wall

Project No.:
AR197257

Date:
Jul 26 2023

Drawn By:
JWL

Reviewed By:
JRG



5847 50th St
Lubbock, TX

PH. 806-300-0140

terracon.com

Site Sample Map

Lakewood Federal #1
32.6115128° -104.4704863°
Eddy County, New Mexico

Exhibit

3

APPENDIX B – TABLES, PROCEDURES, AND FIGURES

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Lakewood Federal #1 NMOCD Incident No. Terracon Project No. AR197257									
Sample I.D.	Sample Depth (bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)			
						GRO	DRO	MRO	TOTAL
Release Margin Samples									
HA-1 (0-.5)	0 - 0.5'	Grab	07/22/19	Benzene - 0.150 Toluene - 1.64 Ethylbenzene - 1.13 Total Xylenes - 2.3 Total BTEX - 5.22	43.9	10,000	35,000	2,190	47,200
HA-1 (.5-1)	0.5 - 1'	Grab	07/22/19	Benzene - 0.266 Toluene - 1.92 Ethylbenzene - 1.03 Total Xylenes - 2.00 Total BTEX - 5.22	52.6	12,700	27,500	2,190	42,400
HA-1 (1.5-2)	1.5 - 2'	Grab	07/22/19	Benzene - 0.0602 Toluene - 1.20 Ethylbenzene - 1.39 Total Xylenes - 3.05 Total BTEX - 5.70	337	706	1,870	273	2,850
HA-2 (0-.5)	0 - 0.5'	Grab	07/22/19	Benzene - <0.00823 Toluene - 0.0291 Ethylbenzene - 0.0346 Total Xylenes - 0.0911 Total BTEX - 0.155	155	12	136	92.5	241
HA-2 (.5-1)	0.5 - 1'	Grab	07/22/19	Benzene - <0.00809 Toluene - 0.0215 Ethylbenzene - <0.00551 Total Xylenes - 0.0286 Total BTEX - 0.0501	112	13.3	82.9	46.7	143
HA-2 (1.5-2)	1.5 - 2'	Grab	07/22/19	Benzene - 0.0511 Toluene - 0.0629 Ethylbenzene - 0.0196 Total Xylenes - 0.0236 Total BTEX - 0.157	409	<9.94	<9.94	<9.94	<9.94
HA-3 (0-.5)	0 - 0.5'	Grab	07/22/19	Benzene - <0.00834 Toluene - 0.0923 Ethylbenzene - 0.0904 Total Xylenes - 0.184 Total BTEX - 0.367	2,910	17.5	110	40.7	168
HA-3 (.5-1)	0.5 - 1'	Grab	07/22/19	Benzene - <0.00858 Toluene - <0.00444 Ethylbenzene - <0.00584 Total Xylenes - <0.00647 Total BTEX - <0.00444	862	<9.90	<9.90	<9.90	<9.90
HA-3 (1.5-2)	1.5 - 2'	Grab	07/22/19	Benzene - <0.00864 Toluene - <0.00447 Ethylbenzene - <0.00589 Total Xylenes - <0.00652 Total BTEX - <0.00447	818	<9.91	<9.91	<9.91	<9.91
HA-3 (3.5-4)	3.5 - 4'	Grab	07/22/19	Benzene - <0.00899 Toluene - <0.00465 Ethylbenzene - <0.00612 Total Xylenes - <0.00678 Total BTEX - <0.00465	571	<9.87	<9.87	<9.87	<9.87
New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards*				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	600	N/A			100

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/ORO)

* = NMOCD Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

< = Constituent not detected above the indicated laboratory SDL

NA = Not Analyzed

N/A= No Applicable reporting standards

Bold denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards.

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Sample I.D.	Sample Depth (bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)			
						GRO	DRO	MRO	TOTAL
Confirmation Samples									
CS-2.1 (0-0.5)	0 - 0.5'	Composite	10/10/19	Benzene - <0.00904 Toluene - 0.006 Ethylbenzene - <0.00616 Total Xylenes - <0.00682 Total BTEX - 0.006	162	12.3	115	74.4	202
SP-1.1 (1.5-2)	1.5 - 2'	Composite	10/10/19	Benzene - <0.00904 Toluene - <0.00468 Ethylbenzene - 0.08 Total Xylenes - 0.226 Total BTEX - 0.306	450	114	3,260	459	3,830
CS-1.1 (2.5-3)	2.5 - 3'	Composite	10/10/19	Benzene - <0.00904 Toluene - <0.00468 Ethylbenzene - <0.00616 Total Xylenes - <0.00682 Total BTEX - <0.00468	2.88	14.2	431	85.4	531
Additional Confirmation Samples									
F-1	3 - 3.5'	Composite	07/29/22	Benzene - ND Total BTEX - ND	240	ND	ND	ND	ND
F-2	3 - 3.5'	Composite	07/29/22	Benzene - ND Total BTEX - ND	272	ND	171	27.7	198.7
F-2.1	3.5 - 4'	Composite	08/08/22	Benzene - NA Total BTEX - NA	NA	ND	ND	ND	ND
F-3	3 - 3.5'	Composite	07/29/22	Benzene - NA Total BTEX - NA	1,040	NA	NA	NA	NA
F-3.1	3.5 - 4'	Composite	08/08/22	Benzene - NA Total BTEX - NA	1,310	NA	NA	NA	NA
F-3.2	4 - 5'	Composite	08/24/22	Benzene - NA Total BTEX - NA	448	NA	NA	NA	NA
F-4	3 - 3.5'	Composite	07/29/22	Benzene - ND Total BTEX - ND	112	ND	ND	ND	ND
F-5	3 - 3.5'	Composite	07/29/22	Benzene - ND Total BTEX - ND	848	ND	ND	ND	ND
F-5.1	3.5 - 4'	Composite	08/08/22	Benzene - NA Total BTEX - NA	560	NA	NA	NA	NA
F-6	3 - 3.5'	Composite	07/29/22	Benzene - ND Total BTEX - ND	1,280	ND	ND	ND	ND
F-6.1	3 - 3.5'	Composite	08/08/22	Benzene - NA Total BTEX - NA	1,280	NA	NA	NA	NA
F-6.2	4 - 5'	Composite	08/24/22	Benzene - NA Total BTEX - NA	512	NA	NA	NA	NA
F-7	3 - 3.5'	Composite	07/29/22	Benzene - ND Total BTEX - ND	1,410	ND	ND	ND	ND
F-7.1	3.5 - 4'	Composite	08/08/22	Benzene - NA Total BTEX - NA	1,470	NA	NA	NA	NA
F-7.2	4 - 5'	Composite	08/24/22	Benzene - NA Total BTEX - NA	608	NA	NA	NA	NA
F-7..3	4 - 5'	Composite	09/27/22	Benzene - NA Total BTEX - NA	128	NA	NA	NA	NA
W-1	1 - 2'	Composite	07/29/22	Benzene - ND Total BTEX - ND	512	ND	ND	ND	ND
W-2	1 - 2'	Composite	07/29/22	Benzene - ND Total BTEX - ND	832	ND	ND	ND	ND
W-2.1	1 - 2'	Composite	08/08/22	Benzene - NA Total BTEX - NA	1,470	NA	NA	NA	NA
W-2.2	0.5 - 4'	Composite	08/24/22	Benzene - NA Total BTEX - NA	496	NA	NA	NA	NA
W-3	1 - 2'	Composite	07/29/22	Benzene - ND Total BTEX - ND	688	ND	ND	ND	ND
New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards*				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	600	N/A			100

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/ORO)

* = NMOCD Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

< = Constituent not detected above the indicated laboratory SDL

NA = Not Analyzed

N/A = No Applicable reporting standards

Bold denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards.

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Lakewood Federal #1 NMOCD Incident No. Terracon Project No. AR197257									
Sample I.D.	Sample Depth (bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)			
						GRO	DRO	MRO	TOTAL
Additional Confirmation Samples									
W-3.1	1 - 2'	Composite	08/08/22	Benzene - NA Total BTEX - NA	1,060	NA	NA	NA	NA
W-3.2	1 - 2'	Composite	08/24/22	Benzene - NA Total BTEX - NA	544	NA	NA	NA	NA
W-4	1 - 2'	Composite	07/29/22	Benzene - ND Total BTEX - ND	624	ND	ND	ND	ND
W-4.1	1 - 2'	Composite	08/08/22	Benzene - NA Total BTEX - NA	944	NA	NA	NA	NA
W-4.2	0.5 - 4'	Composite	08/24/22	Benzene - NA Total BTEX - NA	656	NA	NA	NA	NA
W-4.3	0.5 - 4'	Composite	09/27/22	Benzene - NA Total BTEX - NA	240	NA	NA	NA	NA
W-5	1 - 2'	Composite	07/29/22	Benzene - ND Total BTEX - ND	256	ND	ND	ND	ND
W-6	1 - 2'	Composite	07/29/22	Benzene - ND Total BTEX - ND	688	ND	ND	ND	ND
W-6.1	1 - 2'	Composite	08/08/22	Benzene - NA Total BTEX - NA	912	NA	NA	NA	NA
W-6.2	0.5 - 4'	Composite	08/24/22	Benzene - NA Total BTEX - NA	544	NA	NA	NA	NA
Additional Confirmation Samples									
SP-1	0 - 1'	Composite	8/0/2022	Benzene - ND Total BTEX - ND	352	ND	37.7	11.4	49.5
New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards*				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	600	N/A			100

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/ORO)

* = NMOCD Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

< = Constituent not detected above the indicated laboratory SDL

NA = Not Analyzed

N/A= No Applicable reporting standards

Bold denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards.

APPENDIX C – ANALYTICAL REPORT AND CHAIN OF CUSTODY



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

August 04, 2022

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: LAKEWOOD FEDERAL

Enclosed are the results of analyses for samples received by the laboratory on 07/29/22 15:36.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/29/2022
 Reported: 08/04/2022
 Project Name: LAKEWOOD FEDERAL
 Project Number: AR197257
 Project Location: SPUR ENERGY - CARLSBAD NM

Sampling Date: 07/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 1 (H223371-01)

BTX 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	08/03/2022	ND	2.08	104	2.00	7.66	
Toluene*	<0.050	0.050	08/03/2022	ND	2.17	109	2.00	8.03	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.13	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.50	108	6.00	6.82	
Total BTX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	08/03/2022	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	08/03/2022	ND	220	110	200	0.535	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	234	117	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 77.0 % 43-149

Surrogate: 1-Chlorooctadecane 87.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/29/2022
 Reported: 08/04/2022
 Project Name: LAKEWOOD FEDERAL
 Project Number: AR197257
 Project Location: SPUR ENERGY - CARLSBAD NM

Sampling Date: 07/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 2 (H223371-02)

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	08/03/2022	ND	2.05	103	2.00	8.07		
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66		
Total BTEx	<0.300	0.300	08/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/03/2022	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	08/03/2022	ND	220	110	200	0.535	
DRO >C10-C28*	171	10.0	08/03/2022	ND	234	117	200	3.85	
EXT DRO >C28-C36	27.7	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 75.8 % 43-149

Surrogate: 1-Chlorooctadecane 96.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/29/2022
 Reported: 08/04/2022
 Project Name: LAKEWOOD FEDERAL
 Project Number: AR197257
 Project Location: SPUR ENERGY - CARLSBAD NM

Sampling Date: 07/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 3 (H223371-03)

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	08/03/2022	ND	2.05	103	2.00	8.07		
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66		
Total BTEx	<0.300	0.300	08/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	08/03/2022	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	08/03/2022	ND	220	110	200	0.535	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	234	117	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 66.1 % 43-149

Surrogate: 1-Chlorooctadecane 73.6 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/29/2022
 Reported: 08/04/2022
 Project Name: LAKEWOOD FEDERAL
 Project Number: AR197257
 Project Location: SPUR ENERGY - CARLSBAD NM

Sampling Date: 07/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 4 (H223371-04)

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	08/03/2022	ND	2.05	103	2.00	8.07		
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66		
Total BTEx	<0.300	0.300	08/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/03/2022	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	08/03/2022	ND	220	110	200	0.535	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	234	117	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 80.5 % 43-149

Surrogate: 1-Chlorooctadecane 92.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/29/2022
 Reported: 08/04/2022
 Project Name: LAKEWOOD FEDERAL
 Project Number: AR197257
 Project Location: SPUR ENERGY - CARLSBAD NM

Sampling Date: 07/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 5 (H223371-05)

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	08/03/2022	ND	2.05	103	2.00	8.07		
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66		
Total BTEx	<0.300	0.300	08/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	08/03/2022	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	08/03/2022	ND	220	110	200	0.535	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	234	117	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 79.6 % 43-149

Surrogate: 1-Chlorooctadecane 90.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/29/2022
 Reported: 08/04/2022
 Project Name: LAKEWOOD FEDERAL
 Project Number: AR197257
 Project Location: SPUR ENERGY - CARLSBAD NM

Sampling Date: 07/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 6 (H223371-06)

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	08/03/2022	ND	2.05	103	2.00	8.07	
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66	
Total BTEX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	08/03/2022	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	08/03/2022	ND	220	110	200	0.535	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	234	117	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 82.7 % 43-149

Surrogate: 1-Chlorooctadecane 95.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/29/2022
 Reported: 08/04/2022
 Project Name: LAKEWOOD FEDERAL
 Project Number: AR197257
 Project Location: SPUR ENERGY - CARLSBAD NM

Sampling Date: 07/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 7 (H223371-07)

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	08/03/2022	ND	2.05	103	2.00	8.07	
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66	
Total BTEX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	08/03/2022	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	08/03/2022	ND	220	110	200	0.535	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	234	117	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 75.0 % 43-149

Surrogate: 1-Chlorooctadecane 84.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/29/2022
 Reported: 08/04/2022
 Project Name: LAKEWOOD FEDERAL
 Project Number: AR197257
 Project Location: SPUR ENERGY - CARLSBAD NM

Sampling Date: 07/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 1 (H223371-08)

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	08/03/2022	ND	2.05	103	2.00	8.07		
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66		
Total BTEx	<0.300	0.300	08/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	08/03/2022	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	08/03/2022	ND	220	110	200	0.535	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	234	117	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 83.3 % 43-149

Surrogate: 1-Chlorooctadecane 96.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/29/2022
 Reported: 08/04/2022
 Project Name: LAKEWOOD FEDERAL
 Project Number: AR197257
 Project Location: SPUR ENERGY - CARLSBAD NM

Sampling Date: 07/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 2 (H223371-09)

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	08/03/2022	ND	2.05	103	2.00	8.07		
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66		
Total BTEx	<0.300	0.300	08/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	08/03/2022	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	08/03/2022	ND	220	110	200	0.535	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	234	117	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 88.7 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/29/2022
 Reported: 08/04/2022
 Project Name: LAKEWOOD FEDERAL
 Project Number: AR197257
 Project Location: SPUR ENERGY - CARLSBAD NM

Sampling Date: 07/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 3 (H223371-10)

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	08/03/2022	ND	2.05	103	2.00	8.07		
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66		
Total BTEx	<0.300	0.300	08/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/03/2022	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	08/03/2022	ND	220	110	200	0.535	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	234	117	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 80.1 % 43-149

Surrogate: 1-Chlorooctadecane 90.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/29/2022
 Reported: 08/04/2022
 Project Name: LAKEWOOD FEDERAL
 Project Number: AR197257
 Project Location: SPUR ENERGY - CARLSBAD NM

Sampling Date: 07/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 4 (H223371-11)

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	08/03/2022	ND	2.05	103	2.00	8.07		
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66		
Total BTEx	<0.300	0.300	08/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	08/03/2022	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	08/03/2022	ND	220	110	200	0.535	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	234	117	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 80.2 % 43-149

Surrogate: 1-Chlorooctadecane 93.3 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/29/2022
 Reported: 08/04/2022
 Project Name: LAKEWOOD FEDERAL
 Project Number: AR197257
 Project Location: SPUR ENERGY - CARLSBAD NM

Sampling Date: 07/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 5 (H223371-12)

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	08/03/2022	ND	2.05	103	2.00	8.07		
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66		
Total BTEx	<0.300	0.300	08/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/03/2022	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	08/03/2022	ND	220	110	200	0.535	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	234	117	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 57.5 % 43-149

Surrogate: 1-Chlorooctadecane 63.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 07/29/2022
 Reported: 08/04/2022
 Project Name: LAKEWOOD FEDERAL
 Project Number: AR197257
 Project Location: SPUR ENERGY - CARLSBAD NM

Sampling Date: 07/29/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 6 (H223371-13)

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	08/03/2022	ND	2.05	103	2.00	8.07		
Toluene*	<0.050	0.050	08/03/2022	ND	2.12	106	2.00	7.07		
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.15	107	2.00	7.74		
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.59	110	6.00	7.66		
Total BTEx	<0.300	0.300	08/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	08/03/2022	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	08/03/2022	ND	220	110	200	0.535	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	234	117	200	3.85	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 75.5 % 43-149

Surrogate: 1-Chlorooctadecane 87.5 % 42.5-161

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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 "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

1 of 2

Company Name: Terracon		BILL TO		ANALYSIS REQUEST	
Project Manager: Joe Guesnier		P.O. #:			
Address: 5847 50th Street		Company: Spur			
City: Lubbock		Attn:			
Phone #: (806) 300-0140		Address:			
Fax #: 		City:			
Project #: AR197257		State: TX		Zip: 79424	
Project Owner: Spur - Lakewood Federal		State:			
Project Location: Carlsbad, NM		Phone #:			
Sample Name: Austin 1 lotley		Fax #:			
FOR LAB USE ONLY		DATE		TIME	
Lab I.D. H223371		Sample I.D.			
1 F1		C 1		7-24-22 10:00	
2 F2		C 1		7-24-22 10:02	
3 F3		C 1		7-24-22 14:08	
4 F4		C 1		7-24-22 10:06	
5 F5		C 1		7-24-22 14:52	
6 F6		C 1		7-24-22 14:56	
7 F7		C 1		7-24-22 14:40	
8 U1		C 1		7-24-22 10:14	
9 U2		C 1		7-24-22 10:16	
10 U3		C 1		7-24-22 10:18	
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Relinquished By: Austin 1 lotley		Date: 7-24-22		Time: 3:36	
Relinquished By: Austin 1 lotley		Received By: Joseph Guesnier		Time: 3:36	
Delivered By: (Circle One) UPS		Observed Temp. °C 4.8		Sample Condition Intact	
Corrected Temp. °C 4.2		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
CHECKED BY: Joe Guesnier		Terracon		Terracon	
Turnaround Time: Standard		Bacteria (only) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Sample Condition Observed Temp. °C	
Thermometer ID #113 Rush		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C 4.8	
Correction Factor -0.3°C 7/29/22		Corrected Temp. °C 4.5			
REMARKS: JOSEPH. GUESNIER @ TERRACON.COM		erin.loyd@terracon.com			



2 of 2

Page 17 of 17



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

August 16, 2022

MIKE ADAMS

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: LAKEWOOD FEDERAL

Enclosed are the results of analyses for samples received by the laboratory on 08/10/22 16:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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:

TERRACON CONSULTANTS
 MIKE ADAMS
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	08/10/2022	Sampling Date:	08/08/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	LAKEWOOD FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	AR197257 (SPUR - LAKEWOOD)	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR ENERGY - CARLSBAD NM		

Sample ID: SP - 1 (H223621-01)

BTX 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	08/13/2022	ND	1.77	88.7	2.00	0.864	
Toluene*	<0.050	0.050	08/13/2022	ND	1.88	93.8	2.00	1.35	
Ethylbenzene*	<0.050	0.050	08/13/2022	ND	1.80	89.8	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/13/2022	ND	5.50	91.7	6.00	3.26	
Total BTX	<0.300	0.300	08/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/16/2022	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	08/13/2022	ND	189	94.4	200	3.24	
DRO >C10-C28*	37.7	10.0	08/13/2022	ND	209	105	200	1.90	
EXT DRO >C28-C36	11.4	10.0	08/13/2022	ND					

Surrogate: 1-Chlorooctane 82.8 % 43-149

Surrogate: 1-Chlorooctadecane 99.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 MIKE ADAMS
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	08/10/2022	Sampling Date:	08/08/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	LAKEWOOD FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	AR197257 (SPUR - LAKEWOOD)	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR ENERGY - CARLSBAD NM		

Sample ID: F - 2.1 3.5-4' (H223621-02)

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	08/13/2022	ND	189	94.4	200	3.24	
DRO >C10-C28*	<10.0	10.0	08/13/2022	ND	209	105	200	1.90	
EXT DRO >C28-C36	<10.0	10.0	08/13/2022	ND					
Surrogate: 1-Chlorooctane	67.2 %	43-149							
Surrogate: 1-Chlorooctadecane	80.7 %	42.5-161							

Sample ID: F - 3.1 3.5-4' (H223621-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	08/16/2022	ND	432	108	400	0.00		

Sample ID: F - 5.1 3.5-4' (H223621-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	08/16/2022	ND	432	108	400	0.00		

Sample ID: F - 6.1 3.5-4' (H223621-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	08/16/2022	ND	432	108	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 MIKE ADAMS
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received:	08/10/2022	Sampling Date:	08/08/2022
Reported:	08/16/2022	Sampling Type:	Soil
Project Name:	LAKEWOOD FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	AR197257 (SPUR - LAKEWOOD)	Sample Received By:	Shalyn Rodriguez
Project Location:	SPUR ENERGY - CARLSBAD NM		

Sample ID: F - 7.1 3.5-4' (H223621-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1470	16.0	08/16/2022	ND	432	108	400	0.00		

Sample ID: W - 2.1 1-2' (H223621-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	08/16/2022	ND	432	108	400	0.00		

Sample ID: W - 3.1 1-2' (H223621-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1060	16.0	08/16/2022	ND	432	108	400	0.00		

Sample ID: W - 4.1 1-2' (H223621-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	08/16/2022	ND	432	108	400	0.00		

Sample ID: W - 6.1 1-2' (H223621-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	08/16/2022	ND	432	108	400	0.00		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 6



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

August 26, 2022

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: SPUR-LAKEWOOD FEDERAL

Enclosed are the results of analyses for samples received by the laboratory on 08/24/22 16:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 08/24/2022
 Reported: 08/26/2022
 Project Name: SPUR-LAKEWOOD FEDERAL
 Project Number: AR197257
 Project Location: NONE GIVEN

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: F - 3.2 (4-5) (H223899-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/25/2022	ND	432	108	400	0.00	

Sample ID: F - 6.2 (4-5) (H223899-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	08/25/2022	ND	432	108	400	0.00	

Sample ID: F - 7.2 (4-5) (H223899-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	08/25/2022	ND	432	108	400	0.00	

Sample ID: W - 2.2 (.5-4) (H223899-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/25/2022	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 08/24/2022
 Reported: 08/26/2022
 Project Name: SPUR-LAKEWOOD FEDERAL
 Project Number: AR197257
 Project Location: NONE GIVEN

Sampling Date: 08/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: W - 3.2 (.5-4) (H223899-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	08/25/2022	ND	432	108	400	0.00		

Sample ID: W - 4.2 (.5-4) (H223899-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	08/25/2022	ND	432	108	400	0.00	

Sample ID: W - 6.2 (.5-4) (H223899-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	08/25/2022	ND	432	108	400	0.00		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories

*=Accredited Analyte

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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

BILL TO

ANALYSIS REQUEST

Company Name:

Project Manager:

Address: 4518 W Pierce St.

City: Catblond State: NM Zip:

Phone #: 505-544-9276 Fax #:

Project #: AR197257 Project Owner:

Project Name: Spur-Lakeview Federal

Project Location:

Sample Name:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H223899

1 L-3.2 (4-5)
2 L-6.2 (4-5)
3 L-7.2 (4-5)
4 L-2.2 (5-4)
5 L-3.2 (5-4)
6 L-4.2 (5-4)
7 L-6.2 (5-4)

(G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :
ACID/BASE:
ICE / COOL
OTHER :

8-24-20
DATE
TIME

Chloride 4500

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Relinquished By:

Date: 8-24-20 Received By:

Relinquished By:

Date: 8-24-20 Received By:

Time:

Date: 8-24-20 Received By:

Delivered By: (Circle One)

Observed Temp. °C 4.8°C

Sample Condition

CHECKED BY:

Turnaround Time:

Standard

✓

Bacteria (only) Sample Condition

Corrected Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C 4.2°C

Cool Intact

Thermometer ID #113

Correction Factor -0.5°C

Standard

✓

Bacteria (only) Sample Condition

Corrected Temp. °C

FORM 005 REV 07/16/22

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



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

September 30, 2022

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: LAKEWOOD FEDERAL

Enclosed are the results of analyses for samples received by the laboratory on 09/28/22 10:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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:

TERRACON CONSULTANTS
 JOSEPH GUESNIER
 5827 50TH ST. SUITE 1
 LUBBOCK TX, 79424
 Fax To:

Received: 09/28/2022
 Reported: 09/30/2022
 Project Name: LAKEWOOD FEDERAL
 Project Number: AR197257
 Project Location: SPUR ENERGY - CARLSBAD NM

Sampling Date: 09/27/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W - 4.3 (0.5-4') (H224500-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/29/2022	ND	416	104	400	3.92	

Sample ID: F - 7.3 (4'-5') (H224500-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/29/2022	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>TERAION</u>		P.O. #:		BILL TO												ANALYSIS REQUEST																							
Project Manager: <u>Steph Greiner</u>		City: _____ State: _____ Zip: _____		Company: <u>Spr Energy</u>																																			
Address: _____		Phone #: _____ Fax #: _____		Attn: <u>Brady Mckler</u>																																			
Project #: <u>44-43 (4-5)</u>		Project Owner: _____		City: _____																																			
Project Name: _____		State: _____ Zip: _____		Address: _____																																			
Project Location: _____		Phone #: _____		City: _____																																			
Sampler Name: _____		Fax #: _____		State: _____																																			
FOR LAB USE ONLY		Matrix		PRESERV		SAMPLING																																	
Lab I.D. <u>H224500</u>		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
Sample I.D. <u>44-43 (4-5)</u>		C 1		C 1		X		X		X		X		X		X		X		X		X		X		X													
2 4.7.3 (4-5)		C 1		C 1		X		X		X		X		X		X		X		X		X		X		X													
Relinquished By: <u>[Signature]</u>		Date: <u>9-24-22</u>		Time: <u>10:48</u>		Received By: <u>[Signature]</u>		Date: <u>9-27-22</u>		Time: <u>1300</u>		Observed Temp. °C <u>5.3</u>		Corrected Temp. °C <u>4.7</u>		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <u>[Signature]</u>		Tumaround Time: _____		Standard <u>Rush</u>		Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C _____													
Relinquished By: <u>[Signature]</u>		Date: _____		Time: _____		Received By: <u>[Signature]</u>		Date: _____		Time: _____		Observed Temp. °C _____		Corrected Temp. °C _____		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: _____		Tumaround Time: _____		Standard _____		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C _____													
Delivered By: (Circle One) _____		Observed Temp. °C _____		Corrected Temp. °C _____		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: _____		Tumaround Time: _____		Standard _____		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C _____																							
Sampler - UPS - Bus - Other: _____		Observed Temp. °C _____		Corrected Temp. °C _____		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: _____		Tumaround Time: _____		Standard _____		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C _____																							

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

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

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

CONDITIONS

Action 259501

CONDITIONS

Operator: Spur Energy Partners LLC 9655 Katy Freeway Houston, TX 77024	OGRID: 328947
	Action Number: 259501
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NRM2003858408 LAKEWOOD FEDERAL #1, thank you. This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc., will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	1/23/2024