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	NRM2034957931
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: LOGOS Operating, LLC	OGRID: 289408
Contact Name: Tamra Sessions	Contact Telephone: 505-324-4145
Contact email: tsessions@logosresourcesllc.com	Incident # *(assigned by OCD)*
Contact mailing address: 2010 Afton Place Farmington, NM 87401	

Location of Release Source

Latitude 36.532089 Longitude -107.099235
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Jicarilla 95 7B	Site Type: Well
Date Release Discovered: 11/18/2020	API# *(if applicable)*: 30-039-26854

Unit Letter	Section	Township	Range	County
F	36	27N	3W	Rio Arriba

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

Nature and Volume of Release

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

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

Cause of Release:

Rupture disc on separator failed 6/22/20 causing produced oil and water to spray covering an area approximately 12' x 15'. Estimated release at less than 1bbl, non-reportable. On 11/18/20 the release became reportable as LOGOS continued to dig and haul more than 12 cubic yards of contaminated soil, which appears to be a historic stain from previous release(s), resulting in greater than 5 bbls.

State of New Mexico
Oil Conservation Division

Incident ID	NRM2034957931
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

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

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

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

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

Printed Name: Tamra Sessions Title: Regulatory Specialist

Signature: Tamra Sessions Date: 2/19/2021

email: tsessions@logosresourcesllc.com Telephone: (505) 324-4145

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	NRM2034957931
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	NRM2034957931
District RP	
Facility ID	
Application ID	

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

Printed Name: Tamra Sessions Title: Regulatory Specialist

Signature: Tamra Sessions Date: 2/19/2021

email: tsessions@logosresourcesllc.com Telephone: (505) 324-4145

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	NRM2034957931
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: Tamra Sessions Title: Regulatory Specialist

Signature: Tamra Sessions Date: 2/19/2021

email: tsessions@logosresourcesllc.com Telephone: (505) 324-4145

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: Nelson Velez Date: 07/01/2022

Printed Name: Nelson Velez Title: Environmental Specialist – Adv

February 19, 2021

Cory Smith
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

Incident # NRM2034957931
Well Name: Jicarilla 95 7B Located in Section 36, Township 27 North, Range 3 West, Rio Arriba, New Mexico.

RE: Rupture disc on separator failed 6/22/20 causing produced oil and water to spray covering an area approximately 12' x 15'. Estimated release at less than 1bbl, non-reportable. Jicarilla requested LOGOS to remove separator and on 11/18/20 the release became reportable as LOGOS continued to dig and haul more than 12 cubic yards of contaminated soil, which appears to be a historic stain from previous release(s).

Dear Mr. Smith,

On 6/22/2020 Jason Sandoval (JOGA) found fluid sprayed on the separator and ground. LOGOS personnel arrived on location and found the rupture disc failed on the low pressure side of separator. There was no standing fluid. Affected area is approximately 12' x 15' x 4" deep. Estimated at less than 1bbl of oil. LOGOS began cleaning up immediately, and sampling to be scheduled at a later date. Separator was repaired. On June 22 & 23, 2020, LOGOS raked in oil sponge in the affected area.

On August 24, 2020, per Keith Manwell's request, LOGOS collected one composite grab sample within the 12' by 15' area of the separator pad as documented in the enclosed Aerial Site map. Samples were placed into Ziploc bag, mixed, and put into laboratory 4-ounce jars, capped head space free and transported on ice to Envirotech. Samples did not pass.

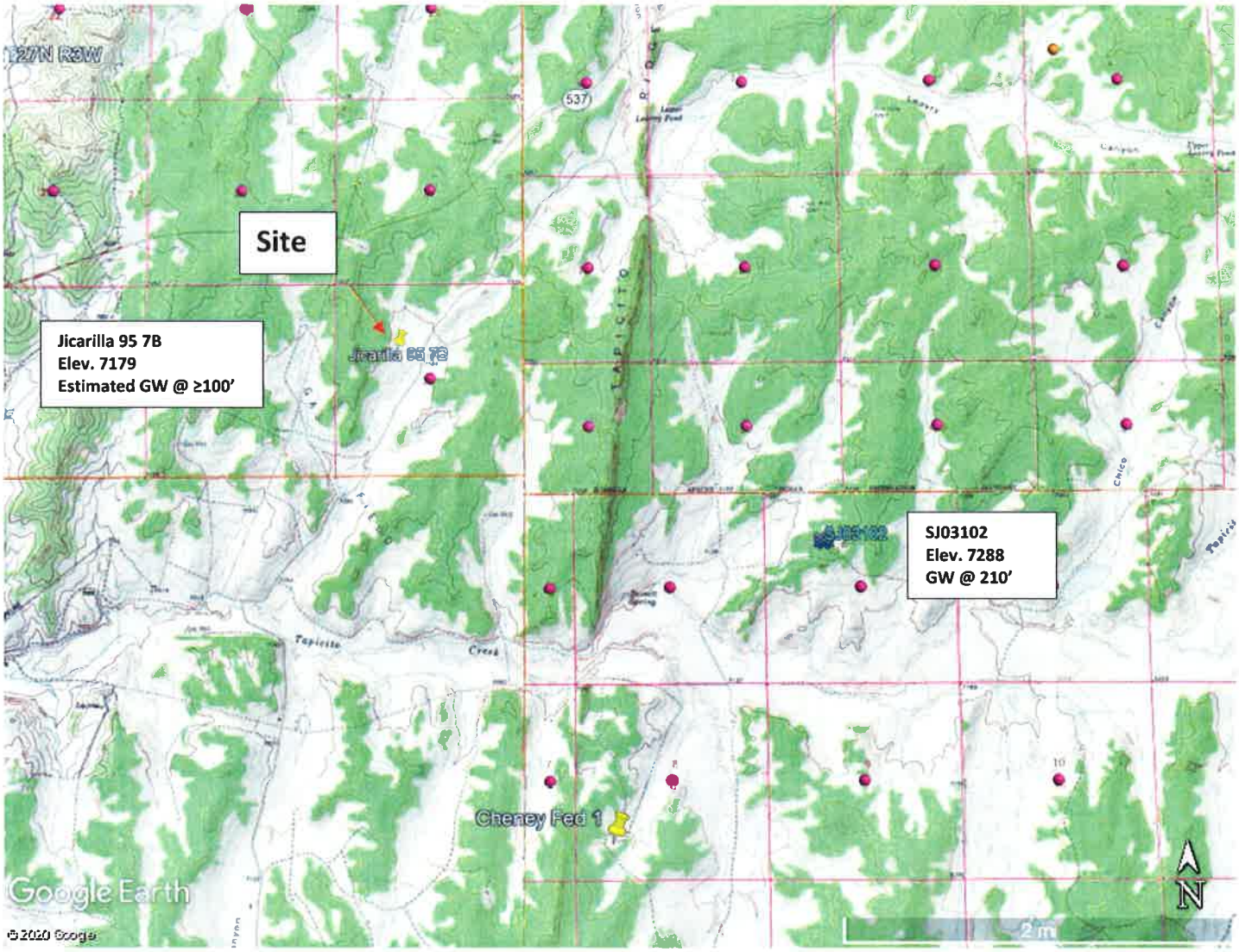
On November 18, 2020 Kelley Oilfield Services removed the separator and remediated historic contaminated soil per the request of Keith Manwell (Jicarilla). Keith was onsite with Envirotech for the confirmation sampling. Kelley Services had to haul off and disposed 12 cubic yards to the Envirotech landfarm before sampling. This clean out then became a reportable release with NMOCD. After Envirotech sampled, LOGOS requested for a report to be generated from this day. See attached:

The groundwater data is documented in the enclosed TOPO Site Map. Nearest water well, SJ03102 is located three miles to the east in NW4 of Section 4, T26N, R02W. Depth to water is 210' with an elevation of 7288'. The Jicarilla 95 7B has an elevation of 7179', and groundwater is determined @ >100'.

Therefore, based on the confirmation sample activities and the laboratory analytical results confirms that concentrations of contaminants are below the applicable release, remediation/reclamation limits and no further action is required, LOGOS requests a release and remediation/reclamation closure approval from NMOCD.

Sincerely,

Tamra Sessions
Regulatory Specialist
Office: 505-324-4145
tsessions@logosresourcesllc.com



LOGOS RESOURCES II, LLC

Well Name: Jicarilla 95 7B
API: 30-039-26854
Section: 36 Township: 27N Range: 3W Unit: F
Lat: 36.352089 Long: -107.099235 NAD 83

Scale

TOPO Site Map
1/14/2021

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
SJ 03102	SJ	RA	1	4	1	04	26N	02W	315637	4043235*	3988	630	210	420

Average Depth to Water: **210 feet**

Minimum Depth: **210 feet**

Maximum Depth: **210 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 312068.556 Northing (Y): 4045016.812 Radius: 5000

***UTM location was derived from PLSS - see Help**

Tamra Sessions

From: Tamra Sessions
Sent: Thursday, November 12, 2020 1:09 PM
To: Keith Manwell-JIC EPO (kcmanwell@yahoo.com)
Cc: Marie Florez; Bryan Lovato; Jason Meechan; orsonharrison@jicarillaoga.com; Jason Sandoval (jasonsandoval@jicarillaoga.com)
Subject: Jicarilla 95 7B - Proposed Work Plan

LOGOS will be on location Wednesday 11/18/20 with Kelley Oilfield Services to remove contaminated soil by moving separator. Envirotech will be conducting the sampling on location starting at noon and return to lab for testing. Upon sample results in 5 to 7 days meeting all requirements, LOGOS will provide the test results to the Jicarilla EPO and provide timing of backfill (if required) with clean soil. Location of backfill soil to be determined by Jicarilla if there is not sufficient soil on location. All contaminated material will hauled to an approved landfarm.

PTPW has been received from the BIA.

Jicarilla 95 7B
JIC Lease 95
F-36-27N-03W
36.5320892,-107.0992355 NAD83
API 30-039-26854

Tamra Sessions
Regulatory Specialist
Office 505-324-4145
tsessions@logosresourcesllc.com

Tamra Sessions

From: Tamra Sessions
Sent: Wednesday, November 18, 2020 1:24 PM
To: Cory Smith (cory.smith@state.nm.us); Powell, Brandon, EMNRD
Cc: Marie Florez; Bryan Lovato; Jason Meechan; Keith Manwell-JIC EPO (kcmanwell@yahoo.com)
Subject: Jicarilla 95 7B - Notification for Final Sampling - Variance Request

DO NOT NEED TO NOTIFY UNLESS WE HAUL MORE THAN 12 YARDS.

Keith Manwell (Jicarilla) was notified of this incident on June 23, 2020 but this was a non-reportable incident of less than 1bbl at the time.

LOGOS is now notifying OCD and requesting a variance to the 48 hour notice for final sample.

Today, we have already dug approximately 12 yds of contaminated soil, which appears to be a historic stain from previous ruptured disc on the separator.

Envirotech is on location and will continue to monitor/test sample until they believe we have clean soil.

API: 30-039-26854
Well Name: Jicarilla 95 7B
Section:36
Township:27N
Range: 3W
Unit Letter: F

Tamra Sessions
Regulatory Specialist
Office 505-324-4145
tsessions@logosresourcesllc.com

Release Closure Report

Jicarilla 95-7B

API #30-039-26854
Section 36, T27N, R3W
Rio Arriba County, New Mexico

December 2, 2020
Project #12035-0157

LOGOS RESOURCES II, LLC

Ms. Tamra Sessions
Regulatory Specialist
2010 Afton Plance
Farmington, New Mexico

Phone: (505) 787-2218
E-mail: tsessions@logosresourcesllc.com

envirotech

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Arizona • Colorado • New Mexico • Texas • Utah

Table of Contents

Logos Operating
Jicarilla 95-7B
Release Closure Report
API #30-039-26854
Section 36, T27N, R3W
Rio Arriba County, New Mexico

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Introduction

Envirotech, Inc. (Envirotech) of Farmington, New Mexico, was contracted Logos Operating (Logos) to provide sampling activities for the closure of a release at the Jicarilla 95-7B well site (API: 30-039-26854) located within Section 36, Township 27 North, Range 3 West, Rio Arriba County, New Mexico; see **Figure 1, *Vicinity Map.***

Regulatory Standards

Based on requirements set forth by Jicarilla Oil and Gas Administration (JOGA) the following closure criteria from *19.15.29.12 New Mexico Administrative Code (NMAC)* were applied:

Constituent	Method	Limit
Chloride	EPA 300.0	600 mg/kg
Total Petroleum Hydrocarbons (TPH)	EPA Method 8015D	100 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA Method 8260B	50 mg/kg
Benzene	EPA Method 8260B	10 mg/kg

Release Closure Activities

During the removal of a separator and associated equipment from the subject site contaminated soil was discovered. Logos contractors conducted the release excavation activities on November 18 through 19, 2020. Logos contractors excavated and transported 43 cubic yards of petroleum contaminated soil (PCS) to Envirotech's New Mexico Oil Conservation Division (NMOCD) permitted soil remediation facility. Waste disposal documentation is provided in **Appendix A, *Waste Disposal Documentation***.

Field Screening

The excavation was monitored utilizing field screening methods conducted by Envirotech on November 18, 2020. Field screening results are summarized below and in **Appendix B, *Field Notes with EPA 418.1 Field Screening Reports.***

Sample ID	VOC (ppm)	TPH (mg/kg)
West	2,579	470
East	2,368	233
Base	1,164	108
Base + 1.5'	0.0	29
Base @ 4'	0.0	24

Laboratory Analysis

Per direction from Keith Manwell, JOGA Environmental Specialist, Envirotech personnel collected a five-point composite sample from the excavation base on November 18, 2020. The sample was collected from approximately 4 feet below ground surface (bgs). The soil sample was placed into individual laboratory provided 4-ounce jars, capped head space free, and transported on ice to Envirotech Analytical Laboratory. The soil sample location is illustrated in **Figure 2, *Site Map and* Appendix C, *Site Photography***.

Laboratory Analytical Results

The soil sample was analyzed per analytical methods referenced in *19.15.29.12 NMAC*. The laboratory analytical results were below laboratory detection limits for all contaminants of concern. Analytical results are summarized below and in **Appendix D, *Laboratory Analytical Report***.

Sample Description	Date	Sample Depth	EPA Method 8015			EPA Method 8260		EPA Method 300.0
			GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
JOGA & NMOCD Release Closure Criteria (Table 1 - 19.15.29.12 NMAC)			*100 mg/kg*			*10 mg/kg*	*50 mg/kg*	*600 mg/kg*
Base	11/18/20	4 feet	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0

Reclamation Activities

Logo's contractor completed the backfill of the subject excavation on December 2, 2020. The excavation was backfilled with non-waste containing, earthen material. The site was recontoured and graded to prevent ponding and erosion. New equipment was placed back into service within the former release site; therefore, reseeding was not necessary. Backfill photos are provided in **Appendix C**.

Summary and Conclusions

On November 18, 2020, Envirotech personnel completed confirmation sampling, under the direction of JOGA, for release closure remediation that was completed at the Jicarilla 97-7B well site. Based on the analytical results, all contaminants of concern are below the JOGA and NMOCD closure criteria; therefore, Envirotech recommends requesting a ***No Further Action*** status from JOGA and NMOCD regarding the release closure.

Statement of Limitations

The work and services provided were in accordance with JOGA and NMOCD standards. All observations and conclusions provided here are based on the information and current site

conditions found at the subject well site. This work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry, and hydrogeology.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,
ENVIROTECH, INC.

Reviewed by:

Brittany Hall
Staff Scientist
bhall@envirotech-inc.com

Felipe Aragon, CHMM, CES
Environmental Assistant Manager
faragon@envirotech-inc.com

Figures

Figure 1, *Vicinity Map*

Figure 2, *Site Map*

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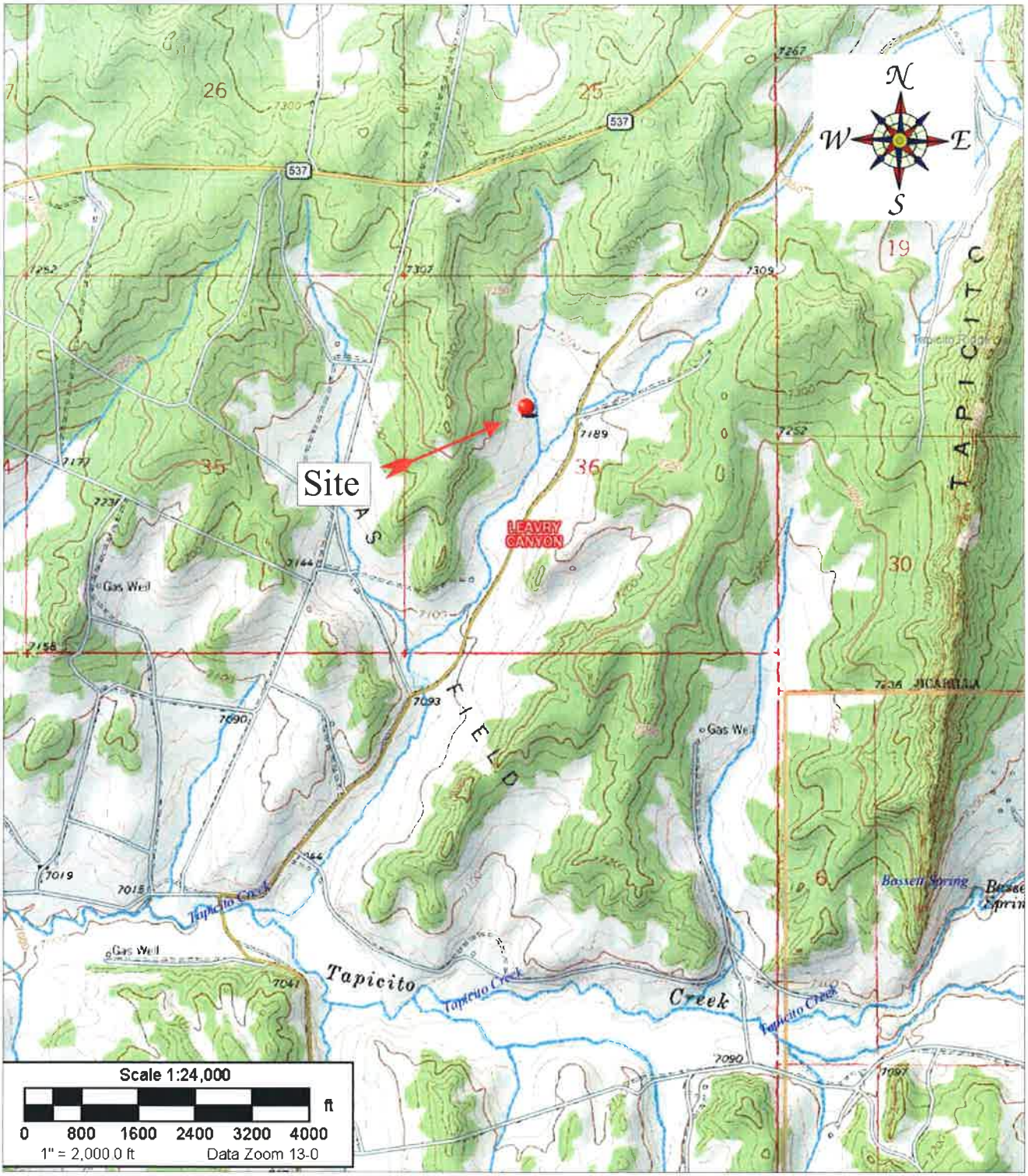


Source: 7.5 Minute, Leavry, New Mexico U.S.G.S. Topographic Quadrangle Map
Scale: 1:24,000 1" = 2,000

Logos Resources, LLC Release Closure Report Jicarilla 95-7B Well Site API: 30-039-26854 Rio Arriba County, New Mexico Section 36, Township 27N, Range 3W	envirotech ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615	Vicinity Map Figure #1
Project Number: 12035-0157 / Date Drawn: 12/7/2020		DRAWN BY: Brittany Hall / PROJECT MANAGER: Felipe Aragon

Legend

- Excavation

- Base (Composite Sample)

N

envirotech

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

MAP DRAWN BY:
BAH
12/7/2020

REVISIONS BY:
NAME
DATE

APPROVED BY:
NAME
DATE

Scale
1" = 50'

Figure 2, Site Map

Logos Resources, LLC
Release Closure Report
Jicarilla 95-7B Well Site
API: 30-039-26854
Rio Arriba County, New Mexico
Section 36 Township 27N, Range 3W
Project #12035-0157

Appendix A

Waste Disposal Documentation

envirotech

Practical Solutions for a Better Tomorrow

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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

12035-0155

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address:
LOGOS Operating, LLC, Tamra Sessions
2010 Afton Place, Farmington, NM 87401

2. Originating Site:
Jicarilla 95 7B

11/10/20

3. Location of Material (Street Address, City, State or ULSTR):
UL F, Section 36, T27N, 03W Rio Arriba County, NM

Nov 2020

4. Source and Description of Waste:
Dirt contaminated with produced oil and water

Estimated Volume 3yds yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) 43 yd^3 / bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Tamra Sessions, representative or authorized agent for Logos Operating, LLC do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☒ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Tamra Sessions, representative for Logos Operating, LLC authorize Envirotech to complete the required testing/sign the Generator Waste Testing Certification.

I, _____, representative for Envirotech Inc. Soil Remediation Facility do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. Transporter:
Various

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: **Envirotech inc. Soil Remediation Facility Permit # NM-01-0011**

Address of Facility: **#43 Road 7175 South of Bloomfield NM**

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☐ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree TITLE: Enviro Manager DATE: 11/18/2020

SIGNATURE: _____ TELEPHONE NO.: (505) 632-1782

Surface Waste Management Facility Authorized Agent

envirotech

Bill of Lading

MANIFEST # 67762
GENERATOR Logos
POINT OF ORIGIN JC 95-7B
TRANSPORTER Kelley oil Field
DATE 11-15-20 JOB # 12035-0174

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF II. 5	Cont Soil	C-23	5	-	-	-	104	1640	
				5						

RESULTS		
2299	CHLORIDE TEST	1
	CHLORIDE TEST	
	CHLORIDE TEST	
PASS	PAINT FILTER TEST	1

LANDFARM EMPLOYEE Cory Robinson GW

☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out

NOTES

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION **White** - Company Records, **Yellow** - Billing, **Pink** - Customer, **Goldenrod** - LF Copy

SAN JUAN PRINTING 6218TH

envirotech

BOL# 67762

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 11-18-20 TIME 1640

CUSTOMER Logos

SITE JIC 95-7B

DRIVER [redacted]

SAMPLE Soil Straight ✓ With Dirt _____

CHLORIDE TEST 299 mg/Kg

ACCEPTED YES ✓ NO _____

PAINT FILTER TEST Time started 1640 Time completed 1652

PASS YES ✓ NO _____

SAMPLER/ANALYST Cory Robinson

Attach test strip here

5796 US Hwy 64, Farmington, NM 87401 | Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 | info@envirotech-Inc.com envirotech-Inc.com

envirotech

Bill of Lading

MANIFEST # 67773
GENERATOR COG.O.S
POINT OF ORIGIN Sec 95-7B
TRANSPORTER Kelley Oil Field
DATE 11-19-20 JOB # 12035-0155

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRK#	TIME	DRIVER SIGNATURE
1	LF II-5	Cont+Soil	C22	18	—	—	—	508	1040	
2	" "	" "	C22	20	—	—	—	508	15:20	
				38						

RESULTS		
<299	CHLORIDE TEST	1
	CHLORIDE TEST	
	CHLORIDE TEST	
PASS	PAINT FILTER TEST	1

LANDFARM EMPLOYEE Gary Robinson

☐ Soil w/ Debris ☐ After Hours/Weekend Receival ☐ Scrape Out ☐ Wash Out

NOTES

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Generator Onsite Contact _____ Phone _____

Signatures required prior to distribution of the legal document. DISTRIBUTION **White** - Company Records, **Yellow** - Billing, **Pink** - Customer, **Goldenrod** - LF Copy

SAN JUAN PRINTING 8219778

envirotech BOL# 67773

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 11-19-20 TIME 1040

CUSTOMER 20005

SITE Jic 95-7B

DRIVER [illegible]

SAMPLE (Soil) Straight ✓ With Dirt ____

CHLORIDE TEST 299 mg/Kg

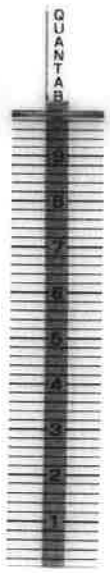
ACCEPTED YES ✓ NO ____

PAINT FILTER TEST Time started 1040 Time completed 1052

PASS YES ✓ NO ____

SAMPLER/ANALYST Cory Robinson

Attach test strip here



5796 US Hwy 64, Farmington, NM 87401 | Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 | info@envirotech-inc.com envirotech-inc.com

Appendix B

Field Notes with EPA 418.1 Field Screening Reports

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Practical Solutions for a Better Tomorrow

CLIENT:	Logos	envirotech (505) 632-0615 (800) 362-1879 5796 U.S. Hwy 64, Farmington, NM 87401	Envmtl. Spclst: BHall
CLIENT/JOB #:	12035-0157		C.O.C. No:
START DATE:	11/18/20		LAT 36.5320992
FINISH DATE:	11/18/20		LONG -107.092355
Page #	1 of 2		

Field Report: Spill Closure Verification

LOCATION: Name: Jicarilla Well #: 95-7B API: 30-039-26854

County: Rio Arriba State: NM

Cause of Release: failed separator Material Released: Amt. Released:

QUAD/UNIT: SEC: 36 TWP: 27N RNG: 3W PM:

Spill Located Approximately: 0 FT. FROM Separator

Excavation Approx: 14 FT. X 21 FT. X 4 FT. Cubic Yardage:

Disposal Facility:

Land Use: Land Owner:

REGULATORY AGENCY: JICARILLA TPH CLOSURE STD: 100

ADDITIONAL CLOSURE REQUIREMENTS:

FIELD 418.1 / PID ANLAYSIS

SAMPLE NAME	SAMPLE DESCRIPTION / NOTE	TIME	205 READING	CALC. ppm	PID/OV	TIME	LABORATORY ANALYSIS
West	west excavation	1203	470	1880	2579	1237	
East	east excavation	1215	233	932	2368	1239	
Base	Base of ex. east + west walls	1236	109	432	1164	1258	
Base	Base + 1.5'	1305	29	116	0.0	1315	
Base	Base @ 4'	1324	24	96	0.0	1340	Y

NOTES:

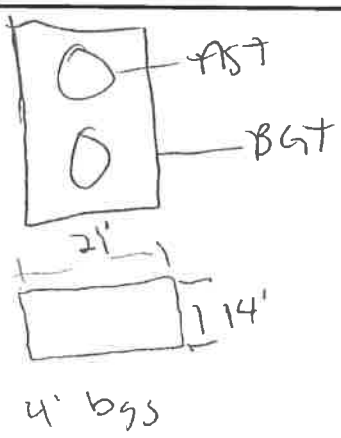
CS-COMPOSITE SAMPLE
GS-GRAB SAMPLE
SB-SOIL BORING
TP-TEST PIT
DU- DECISION UNIT
ST-STATION

Keith Manwell on-site and determined closure @ 100 mg/kg for TPH

7/31/2020

SPILL PERIMETER: *Draw a schematic of the spill site. Attach photos and other diagrams as needed.*

EXCAVATION PROFILE:



NOTES:

JOGA left on-site ok'd by Mike Bratcher

WO #:

Who Ordered/Site Rep:

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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 18-Nov-20

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	205
	500	
	1000	
	5000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Brittany Hall
Analyst

10/9/2020
Date

Brittany Hall
Print Name

Review

10/9/2020
Date

Felipe Aragon, CES, CHMM
Print Name

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Logos	Project #:	20050-0001
Sample No.:	1	Date Reported:	10/9/2020
Sample ID:	West Excavation	Date Sampled:	11/18/2020
Sample Matrix:	Soil	Date Analyzed:	11/18/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**1,880**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 95-7B**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall
Analyst

Brittany Hall
Printed

Review

Felipe Aragon, CES, CHMM
Printed

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Logos	Project #:	20050-0001
Sample No.:	2	Date Reported:	10/9/2020
Sample ID:	East Excavation	Date Sampled:	11/18/2020
Sample Matrix:	Soil	Date Analyzed:	11/18/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**932**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 95-7B**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall
Analyst

Brittany Hall
Printed

Review

Felipe Aragon, CES, CHMM
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Logos	Project #:	20050-0001
Sample No.:	3	Date Reported:	10/9/2020
Sample ID:	Base of ex	Date Sampled:	11/18/2020
Sample Matrix:	Soil	Date Analyzed:	11/18/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**432**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 95-7B**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall
Analyst

Brittany Hall
Printed

Review

Felipe Aragon, CES, CHMM
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Logos	Project #:	20050-0001
Sample No.:	4	Date Reported:	10/9/2020
Sample ID:	Base + 1.5'	Date Sampled:	11/18/2020
Sample Matrix:	Soil	Date Analyzed:	11/18/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**116**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 95-7B**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall
Analyst

Brittany Hall
Printed

Review

Felipe Aragon, CES, CHMM
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Logos	Project #:	20050-0001
Sample No.:	5	Date Reported:	10/9/2020
Sample ID:	Base @ 4'	Date Sampled:	11/18/2020
Sample Matrix:	Soil	Date Analyzed:	11/18/2020
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**96**	**5.0**

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Jicarilla 95-7B**

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Brittany Hall
Analyst

Brittany Hall
Printed

Review

Felipe Aragon, CES, CHMM
Printed

Appendix C

Site Photography

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Practical Solutions for a Better Tomorrow

Site Photography
Logos Resources
Release Closure Report
Jicarilla 95-7B Well Site
Rio Arriba County, New Mexico
Project #12035-0157
November 2020

November 18, 2020

Picture 1: Excavation Base

Picture 2: Excavation Base and Sidewalls

Site Photography
Logos Resources
Release Closure Report
Jicarilla 95-7B Well Site
Rio Arriba County, New Mexico
Project #12035-0157
November 2020

December 2, 2020

Picture 3: Backfill with New Footers

Picture 4: Equipment Placement

Appendix D

Laboratory Analytical Report

envirotech

Practical Solutions for a Better Tomorrow

Report to:

Felipe Aragon

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Logos Operating, LLC

Project Name:	Jicarilla 95-7B Confirmation Sampling
Work Order:	E011061
Job Number:	12035-0157
Received:	11/18/2020

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/25/20

Date Reported: 11/25/20

Felipe Aragon
PO Box 18
Flora Vista, NM 87415

Project Name: Jicarilla 95-7B Confirmation Sampling
Workorder: E011061
Date Received: 11/18/2020 3:50:00PM

Felipe Aragon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/18/2020 3:50:00PM, under the Project Name: Jicarilla 95-7B Confirmation Sampling.

The analytical test results summarized in this report with the Project Name: Jicarilla 95-7B Confirmation Sampling apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Logos Operating, LLC	Project Name:	Jicarilla 95-7B Confirmation Sampling	**Reported:**
PO Box 18	Project Number:	12035-0157	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	11/25/20 10:38

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Base	E011061-01A	Soil	11/18/20	11/18/20	Glass Jar, 4 oz.
	E011061-01B	Soil	11/18/20	11/18/20	Glass Jar, 4 oz.

Sample Data

Logos Operating, LLC	Project Name:	Jicarilla 95-7B Confirmation Sampling	
PO Box 18	Project Number:	12035-0157	**Reported:**
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	11/25/2020 10:38:32AM

Base

E011061-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2048006
Benzene	ND	0.0250	1	11/23/20	11/25/20	
Toluene	ND	0.0250	1	11/23/20	11/25/20	
Ethylbenzene	ND	0.0250	1	11/23/20	11/25/20	
p,m-Xylene	ND	0.0500	1	11/23/20	11/25/20	
o-Xylene	ND	0.0250	1	11/23/20	11/25/20	
Total Xylenes	ND	0.0250	1	11/23/20	11/25/20	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*	*70-130*	*11/23/20*	*11/25/20*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*11/23/20*	*11/25/20*	
Surrogate: Bromofluorobenzene		*98.5 %*	*70-130*	*11/23/20*	*11/25/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2048006
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/20	11/25/20	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*	*70-130*	*11/23/20*	*11/25/20*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*11/23/20*	*11/25/20*	
Surrogate: Bromofluorobenzene		*98.5 %*	*70-130*	*11/23/20*	*11/25/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AC			Batch: 2048003
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/20	11/23/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/23/20	11/23/20	
Surrogate: n-Nonane		*89.0 %*	*50-200*	*11/23/20*	*11/23/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2047017
Chloride	ND	20.0	1	11/19/20	11/19/20	

QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 95-7B Confirmation Sampling	**Reported:**
PO Box 18	Project Number:	12035-0157	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	11/25/2020 10:38:32AM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2048006-BLK1)									Prepared: 11/23/20 Analyzed: 11/25/20
Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 1,2-Dichloroethane-d4	*0.477*		*0.500*		*95.4*	*70-130*			
Surrogate: Toluene-d8	*0.543*		*0.500*		*109*	*70-130*			
Surrogate: Bromofluorobenzene	*0.485*		*0.500*		*96.9*	*70-130*			
LCS (2048006-BS1)									Prepared: 11/23/20 Analyzed: 11/25/20
Benzene	2.45	0.0250	2.50		98.0	70-130			
Toluene	2.66	0.0250	2.50		106	70-130			
Ethylbenzene	2.58	0.0250	2.50		103	70-130			
p,m-Xylene	4.87	0.0500	5.00		97.5	70-130			
o-Xylene	2.42	0.0250	2.50		96.8	70-130			
Total Xylenes	7.29	0.0250	7.50		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.487*		*0.500*		*97.3*	*70-130*			
Surrogate: Toluene-d8	*0.551*		*0.500*		*110*	*70-130*			
Surrogate: Bromofluorobenzene	*0.489*		*0.500*		*97.8*	*70-130*			
Matrix Spike (2048006-MS1)				**Source: E011061-01**					Prepared: 11/23/20 Analyzed: 11/25/20
Benzene	2.57	0.0250	2.50	ND	103	48-131			
Toluene	2.85	0.0250	2.50	ND	114	48-130			
Ethylbenzene	2.77	0.0250	2.50	ND	111	45-135			
p,m-Xylene	5.23	0.0500	5.00	ND	105	43-135			
o-Xylene	2.61	0.0250	2.50	ND	104	43-135			
Total Xylenes	7.84	0.0250	7.50	ND	105	43-135			
Surrogate: 1,2-Dichloroethane-d4	*0.492*		*0.500*		*98.4*	*70-130*			
Surrogate: Toluene-d8	*0.551*		*0.500*		*110*	*70-130*			
Surrogate: Bromofluorobenzene	*0.487*		*0.500*		*97.3*	*70-130*			
Matrix Spike Dup (2048006-MSD1)				**Source: E011061-01**					Prepared: 11/23/20 Analyzed: 11/25/20
Benzene	2.60	0.0250	2.50	ND	104	48-131	1.05	23	
Toluene	2.86	0.0250	2.50	ND	114	48-130	0.385	24	
Ethylbenzene	2.78	0.0250	2.50	ND	111	45-135	0.324	27	
p,m-Xylene	5.25	0.0500	5.00	ND	105	43-135	0.315	27	
o-Xylene	2.61	0.0250	2.50	ND	105	43-135	0.191	27	
Total Xylenes	7.86	0.0250	7.50	ND	105	43-135	0.274	27	
Surrogate: 1,2-Dichloroethane-d4	*0.509*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.542*		*0.500*		*108*	*70-130*			
Surrogate: Bromofluorobenzene	*0.486*		*0.500*		*97.2*	*70-130*			

QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 95-7B Confirmation Sampling	**Reported:**
PO Box 18	Project Number:	12035-0157	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	11/25/2020 10:38:32AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2048006-BLK1)									Prepared: 11/23/20 Analyzed: 11/25/20
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1,2-Dichloroethane-d4	*0.477*		*0.500*		*95.4*	*70-130*			
Surrogate: Toluene-d8	*0.543*		*0.500*		*109*	*70-130*			
Surrogate: Bromofluorobenzene	*0.485*		*0.500*		*96.9*	*70-130*			
LCS (2048006-BS2)									Prepared: 11/23/20 Analyzed: 11/25/20
Gasoline Range Organics (C6-C10)	48.3	20.0	50.0		96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.498*		*0.500*		*99.6*	*70-130*			
Surrogate: Toluene-d8	*0.556*		*0.500*		*111*	*70-130*			
Surrogate: Bromofluorobenzene	*0.486*		*0.500*		*97.1*	*70-130*			
Matrix Spike (2048006-MS2)				**Source: E011061-01**					Prepared: 11/23/20 Analyzed: 11/25/20
Gasoline Range Organics (C6-C10)	50.1	20.0	50.0	ND	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.487*		*0.500*		*97.4*	*70-130*			
Surrogate: Toluene-d8	*0.554*		*0.500*		*111*	*70-130*			
Surrogate: Bromofluorobenzene	*0.483*		*0.500*		*96.5*	*70-130*			
Matrix Spike Dup (2048006-MSD2)				**Source: E011061-01**					Prepared: 11/23/20 Analyzed: 11/25/20
Gasoline Range Organics (C6-C10)	43.4	20.0	50.0	ND	86.9	70-130	14.2	20	
Surrogate: 1,2-Dichloroethane-d4	*0.488*		*0.500*		*97.6*	*70-130*			
Surrogate: Toluene-d8	*0.550*		*0.500*		*110*	*70-130*			
Surrogate: Bromofluorobenzene	*0.491*		*0.500*		*98.1*	*70-130*			

envirotech Inc.

QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 95-7B Confirmation Sampling	**Reported:**
PO Box 18	Project Number:	12035-0157	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	11/25/2020 10:38:32AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AC

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2048003-BLK1)									Prepared: 11/23/20 Analyzed: 11/23/20
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	*51.4*		*50.0*		*103*	*50-200*			
LCS (2048003-BS1)									Prepared: 11/23/20 Analyzed: 11/23/20
Diesel Range Organics (C10-C28)	410	25.0	500		82.0	38-132			
Surrogate: n-Nonane	*43.9*		*50.0*		*87.8*	*50-200*			
Matrix Spike (2048003-MS1)				**Source: E011061-01**					Prepared: 11/23/20 Analyzed: 11/23/20
Diesel Range Organics (C10-C28)	428	25.0	500	ND	85.7	38-132			
Surrogate: n-Nonane	*43.8*		*50.0*		*87.7*	*50-200*			
Matrix Spike Dup (2048003-MSD1)				**Source: E011061-01**					Prepared: 11/23/20 Analyzed: 11/23/20
Diesel Range Organics (C10-C28)	411	25.0	500	ND	82.2	38-132	4.12	20	
Surrogate: n-Nonane	*41.1*		*50.0*		*82.3*	*50-200*			

envirotech Inc.

QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 95-7B Confirmation Sampling	**Reported:**
PO Box 18	Project Number:	12035-0157	
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	11/25/2020 10:38:32AM

Anions by EPA 300.0/9056A

Analyst: NE

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2047017-BLK1)									Prepared: 11/19/20 Analyzed: 11/19/20
Chloride	ND	20.0							
LCS (2047017-BS1)									Prepared: 11/19/20 Analyzed: 11/19/20
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2047017-MS1)									**Source: E011041-01** Prepared: 11/19/20 Analyzed: 11/19/20
Chloride	428	20.0	250	173	102	80-120			
Matrix Spike Dup (2047017-MSD1)									**Source: E011041-01** Prepared: 11/19/20 Analyzed: 11/19/20
Chloride	437	20.0	250	173	106	80-120	2.25	20	

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

Definitions and Notes

Logos Operating, LLC	Project Name:	Jicarilla 95-7B Confirmation Sampling	
PO Box 18	Project Number:	12035-0157	**Reported:**
Flora Vista NM, 87415	Project Manager:	Felipe Aragon	11/25/20 10:38

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

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

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

Project Information | Chain of Custody | Page 1 of 1

Client: Logos Operating	
Project: Scarilla 9S-7B Confirmation Sampling	
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email: Faragon Tknight Gcrabtree Bhall Igarcia Cgreen Dcarter	
Report due by:	

Bill To

Attention:	
Address:	
City, State, Zip	
Phone:	
Email:	tsessions@logosresourcesllc.com mflorez@logosresourcesllc.com

Lab Use Only

Lab WO#	Job Number
E011061	12035-0157

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	CO 910.1 Table	Remarks
1335	11/18/20	S	2	Base	1	X	X	X			X		2-4 oz jars with ice

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Brett Hall	11/18/20	1550	[signature]	11/18/20	15:50
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

Received on ice: (Y) N

T1 T2 T3

AVG Temp °C 4

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

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

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

Envirotech Analytical Laboratory

Printed: 11/19/2020 9:41:21AM

Sample Receipt Checklist (SRC)

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

Client:	Logos Operating, LLC	Date Received:	11/18/20 15:50	Work Order ID:	E011061
Phone:	(505)215-8215	Date Logged In:	11/19/20 09:35	Logged In By:	Alexa Michaels
Email:		Due Date:	11/25/20 17:00 (5 day TAT)		

Chain of Custody (COC)

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Comments/Resolution

Email- Felipe, Tami, Greg, Brittany, Isaac, Clay, Damon

Client Instruction

Email- Felipe, Tami, Greg, Brittany, Isaac, Clay, Damon

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

Date

envirotech Inc.

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 18362

CONDITIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 18362
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	7/1/2022