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	nAPP2104354470
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party LOGOS Operating, LLC		OGRID	289408	
Contact Name Marie E. Florez		Contact Te	elephone 505-419-8420	
Contact email mflorez@logosresoucesllc.com		Incident #	(assigned by OCD) nAPP2104354470	
Contact mailing address		e, Farmington NM	1 87401	
			of Release So	ource
Latitude36.5320	892	(NAD 83 in dec	Longitude _cimal degrees to 5 decim	-107.0992355 nal places)
Site Name Jicarilla 9:	5 7B		Site Type	Well
Date Release Discovered			API# (if app	
Unit Letter Section	Township	Range	Coun	ty
F 36	27N	3W	Rio Arriba	
Surface Owner: State Federal Tribal X 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 Release		•	Volume Recovered (bbls)
Produced Water	Volume Release	ed (bbls)		Volume Recovered (bbls)
	Is the concentrate produced water	tion of dissolved c >10,000 mg/l?	hloride in the	☐ Yes ☐ No
x Condensate	Volume Release	ed (bbls) 1/4 bb	ls	Volume Recovered (bbls) 0
☐ Natural Gas	Volume Release	ed (Mcf)		Volume Recovered (Mcf)
Other (describe)	escribe) Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)	
Cause of Release				
LOGOS to remove the se	parator to clean his off and disposed >	toric staining under 20 yards at Enviro	er and around the se otech land farm. The	tor. The surface owner (Jicarilla) requested to for eparator. As Kelley Service's scraped and removed the e release was reported to NMOCD, per the calculations e.

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	42		~	•	- / T

Incident ID	nAPP2104354470
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	nsible party consider this a major release?		
19.15.29.7(A) NMAC?			
Yes X No			
If YES, was immediate notice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?		
•	· · · · · · · · · · · · · · · · · · ·		
Initial R	esponse		
The responsible party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury		
X The source of the release has been stopped.			
X The impacted area has been secured to protect human health and	the environment.		
x Released materials have been contained via the use of berms or	likes, absorbent pads, or other containment devices.		
X All free liquids and recoverable materials have been removed an			
If all the actions described above have <u>not</u> been undertaken, explain	why:		
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.			
I hereby certify that the information given above is true and complete to the			
regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the 0	OCD does not relieve the operator of liability should their operations have		
failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of			
and/or regulations.			
Printed Name: Marie E. Florez	Title: Regulatory Specialist		
Signature: Marie E. Florez	Date: 3/24/2021		
email:mflorez@logosresourcesllc.com	Telephone: 505-419-8420		
OCD Only			
Received by:	Date:		

Received by OCD: 3/25/2021 2:30:28 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	
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: Marie E. Florez	Title: Regulatory Specialist		
Signature: Marie E. Florez	Date: <u>3/24/2021</u>		
email:mflorez@logosresourcesllc.com	Telephone:505-419-8420		
OCD Only			
Received by:	Date:		

Incident ID nAPP2104354470 District RP Facility ID Application ID

Site Assessment/Characterization

What is the shallowest depth to groundwater beneath the area affected by the release?	50 - 100 (ft bgs)		
Did this release impact groundwater or surface water?	Yes X No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	X 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 X No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X 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 X No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No		
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No		
Are the lateral extents of the release overlying a subsurface mine?	Yes X No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No		
Are the lateral extents of the release within a 100-year floodplain?	Yes X No		
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X 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.
- X Field data
- X Data table of soil contaminant concentration data
- x Depth to water determination
- x Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- X Boring or excavation logs
- X 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.

Received by OCD: 3/25/2021	2:30:28 PM
Form C-141	State of New Mexico
Page 6	Oil Conservation Division

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Closure

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

Closure Report Attachment Checklist: Each of the following ite	ems must be included in the closure report.
X A scaled site and sampling diagram as described in 19.15.29.11	1 NMAC
X Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
x Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
x Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and remhuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulat restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the OC Printed Name: Marie E. Florez Signature: Marie E. Florez	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially aditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. Title: Regulatory Specialist
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:02/08/2022
Printed Name: Jennifer Nobui	Title: Environmental Specialist A



March 24, 2021

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

Incident # nAPP2104354470

API: 30-039-26854

Well Site: Jicarilla 95 7B Located in Unit F, Section 36, Township 27 North, Range 3 West, 1830 FNL & 1720 FWL, Rio Arriba New Mexico.

RE: On December 17, 2020, this release was discovered from an oil dump line freeze that sprayed 1/4bbl from the separator. The surface owner (Jicarilla) requested to for LOGOS to remove the separator to clean historic staining under and around the separator. As Kelley Service's scraped and removed the staining and hauled off and disposed >20 yards at Envirotech land farm. The release was reported to NMOCD, per the calculations that if 12 yards filled a dump truck this equals 5bbls which than became reportable.

Dear Mr. Smith,

On December 17, 2020 LOGOS shoveled up the residue to clean the surface area off the ground. LOGOS employees were able to scoop up the snow where the affected area occurred and placed in the steel BGT. They also placed rags down on the wet area to soak up the spill.

Jicarilla (EPO) was contacted and on location during the remediation.

On January 29, 2021, Kelley Oilfield Services began remediation. See attached report from Envirotech for the rest of the work details.

Sincerely,

Marie E. Florez

Marie E. Florez

Regulatory Specialist Cell: 505-419-8420 Office: 505-787-2218

mflorez@logoesresourcesllc.com



From: Smith, Cory, EMNRD

To: <u>Tamra Sessions</u>; <u>Powell, Brandon, EMNRD</u>

Cc: Marie Florez; Bryan Lovato; Jason Meechan; Keith Manwell-JIC EPO (kcmanwell@yahoo.com)

Subject: RE: Jicarilla 95 7B - Notification for Final Sampling - Variance Request

Date: Wednesday, February 3, 2021 11:10:10 AM

Attachments: <u>image001.jpg</u>

Tamera,

Sounds good keep me in the loop.

Thanks

Cory Smith • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1000 Rio Brazos | Aztec, NM 87410
505.334.6178 x115 | Cory.Smith@state.nm.us

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

From: Tamra Sessions <tsessions@logosresourcesllc.com>

Sent: Wednesday, February 3, 2021 10:49 AM

To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Powell, Brandon, EMNRD

<Brandon.Powell@state.nm.us>

Cc: Marie Florez <mflorez@logosresourcesllc.com>; Bryan Lovato

<blovato@logosresourcesllc.com>; Jason Meechan <jmeechan@logosresourcesllc.com>; Keith

Manwell-JIC EPO (kcmanwell@yahoo.com) <kcmanwell@yahoo.com>

Subject: [EXT] RE: Jicarilla 95 7B - Notification for Final Sampling - Variance Request

Cory, we were held up moving dirt on another location and was not able to get samples yesterday. Envirotech will take the confirmation samples today and Keith (Jicarilla EPO) will be present.

Tamra Sessions Regulatory Specialist Office 505-324-4145

tsessions@logosresourcesllc.com



From: Smith, Cory, EMNRD < Cory.Smith@state.nm.us>

Sent: Wednesday, February 03, 2021 7:49 AM

To: Tamra Sessions < tsessions@logosresources||c.com|>; Powell, Brandon, EMNRD

<Brandon.Powell@state.nm.us>

Cc: Marie Florez < mflorez@logosresourcesllc.com >; Bryan Lovato

<<u>blovato@logosresourcesllc.com</u>>; Jason Meechan <<u>imeechan@logosresourcesllc.com</u>>; Keith

Manwell-JIC EPO (kcmanwell@yahoo.com) <kcmanwell@yahoo.com>

Subject: RE: Jicarilla 95 7B - Notification for Final Sampling - Variance Request

Tamera,

OCD approves the alternative sampling time. Please submit a C-141 no later then February 12, 2021. Please sample Per 19.15.29 NMAC

OCD approval does not relieve Logos of any other requirements imposed by other regulatory agencies.

Thanks,

Cory Smith • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1000 Rio Brazos | Aztec, NM 87410
505.334.6178 x115 | Cory.Smith@state.nm.us
http://www.emnrd.state.nm.us/OCD/

From: Tamra Sessions < tsessions@logosresourcesllc.com >

Sent: Tuesday, February 2, 2021 2:56 PM

To: Smith, Cory, EMNRD < Cory. Smith@state.nm.us >; Powell, Brandon, EMNRD

<<u>Brandon.Powell@state.nm.us</u>>

Cc: Marie Florez < mflorez@logosresourcesllc.com >; Bryan Lovato

<<u>blovato@logosresourcesllc.com</u>>; Jason Meechan <<u>imeechan@logosresourcesllc.com</u>>; Keith

Manwell-JIC EPO (kcmanwell@yahoo.com) <kcmanwell@yahoo.com>

Subject: [EXT] Jicarilla 95 7B - Notification for Final Sampling - Variance Request

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

Keith Manwell (Jicarilla EPO) was notified of this incident on December 17, 2020 but this was a non-reportable incident of less than 1bbl at the time.

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

Friday 1/28/21, (with Keith Manwell onsite) we dug and hauled approximately 10 cyds of contaminated soil.

Today, (with Keith Manwell onsite) Envirotech did field test confirmation sampling which came back hot. Additional digging was done for an estimated combined total of 30 cyds.

Jicarilla requested additional remediation and to move the separator, due to historic staining below the separator.

Envirotech will conduct confirmation sampling today, 2/2/21.

API: 30-039-26854

Well Name: Jicarilla 95 7B

Unit Letter: F Section: 36 Township: 27N Range: 3W Lat: 36.5320892

Reseived by OCD: 3/25/2021 2:30:28 PM

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 <u>District IV</u> 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

Revised August 1, 2011

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Form C-138

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

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	
3. Location of Material (Street Address, City, State or ULSTR):	
UL F, Section 36, T27N, 03W Rio Arriba County, NM	
4. Source and Description of Waste: Dirt contaminated with produced oil and water	
Estimated Volume 3yds yd³/bbls Known Volume (to be entered by the operator at the end of the haul) yd³/bbls	s
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS	
I, Tampa 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 198 regulatory determination, the above described waste is: (Check the appropriate classification)	8
X 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 be 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. (Chec 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, Tame 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.	š
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: TITLE: DATE:	
SIGNATURE: TELEPHONE NO.: (505) 632-1782	
Surface Waste Management Facility Authorized Agent	

Release Confirmation Sampling Report

Jicarilla 95-7B
API #30-039-26854
Section 36, T27N, R3W
Rio Arriba County, New Mexico
NMOCD Incident #nRM2034857931

February 24, 2021 Project #12035-0162



Ms. Tamara Sessions 2010 Afton Place Farmington, New Mexico

Phone: (505) 787-2218

E-mail: tsessions@logosresourcesllc.com



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

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RECLAMATI	ION ACTIVITIES	3
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Introduction

Envirotech, Inc. (Envirotech) of Farmington, New Mexico, was contracted Logos Operating, LLC (Logos) to provide sampling activities for the closure of a release at the Jicarilla 97-5B well site (API: 30-039-26854) located within Unit F, Section 36, Township 27 North, Range 3 West, Rio Arriba County, New Mexico; see **Figure 1**, *Vicinity Map*.

The release was the result of a dump line freeze located on the separator and consisted of an estimated 1 barrel (bbl) of crude oil and produced water. Upon further investigation, historical staining was discovered, and the estimated release volume was adjusted to greater than 5 bbls, which included the most recent release and historical staining.

Regulatory Standards

The following closure criteria from 19.15.29.12 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 8021B	50 mg/kg
Benzene	EPA Method 8021B	10 mg/kg

Due to known springs in the area, groundwater is estimated to be between 50 and 100 feet. The closest water well (SJ-01305) is located approximately 9.5 miles to the southeast. Depth to water in the well is reported at 265 feet, and the well is located 32 feet lower in elevation than the subject location. However, the site was ranked at the most stringent standards due to an unnamed tributary of Tapacito Creek runs through the location. Siting criteria documentation for the subject well site is provided in **Appendix A**, **Siting Documentation**.

Release Closure Activities

Logos contractors performed excavation of the site on January 29 through February 3, 2021. Approximately 30 cubic yards of petroleum contaminated soil (PCS) were transported to Envirotech's NMOCD permitted soil remediation facility. Waste disposal documentation is provided in **Appendix B**, **Waste Disposal Documentation**.

The excavation was monitored utilizing field screening methods conducted by Envirotech on February 1 through 3, 2021. The final dimensions of the excavation measured approximately 19 feet by 15 feet by 8 feet below ground surface (bgs). Field screening results are summarized below and in **Appendix C**, *Field Notes with EPA 418.1 Field Screening Reports*.



Sample ID	Date	Sample Description	VOC (ppm)	TPH (mg/kg)
SC-01	2/1/2021	Base	10.6	236
SC-01	2/2/2021	Base	1.1	124
SC-02	2/2/2021	Base	1.6	160
SC-03	2/2/2021	Wall Composite	6.2	164
SC-02	2/2/2021	Base	Not analyzed	112
SC-03	2/2/2021	Wall Composite	Not analyzed	128
SC-04	2/2/2021	Wall Composite	5.3	328
SC-05	2/2/2021	Base	1.3	320
GS-01	2/2/2021	Background	0.0	328
SC-06	2/2/2021	Wall composite	0.0	352
SC-07	2/2/2021	Base	0.0	332
SC-01	2/3/2021	West Spoil Pile	0.3	Not analyzed
SC-02	2/3/2021	East Spoil Pile	0.0	Not analyzed
SC-03	2/3/2021	East Wall	0.0	Not analyzed
SC-04	2/3/2021	Southern Base	0.0	Not analyzed
SC-05	2/3/2021	Southern Wall	0.0	Not analyzed
SC-06	2/3/2021	North Wall	0.0	Not analyzed
SC-07	2/3/2021	Northern Base	0.0	Not analyzed
SC-08	2/3/2021	Western Wall	0.0	Not analyzed

Jicarilla Oil and Gas Administration (JOGA) representative Mr. Keith Manwell was onsite to witness and direct sampling activities.

Laboratory Analysis

Envirotech personnel collected eight (8) five-point composite samples from the excavation and associated spoil pile on February 3, 2021. The spoil piles were excess soil removed from the excavation. Samples were collected from the spoil piles to verify that the soil was non-waste containing and could be used to backfill the excavation. The soil samples were placed into individual laboratory provided 4-ounce jars, capped head space free, and transported on ice to Envirotech Analytical Laboratory. The soil sample locations are illustrated in **Figure 2**, **Site Map** and in **Appendix C**.

Laboratory Analytical Results

The soil samples were analyzed per analytical methods referenced in 19.15.29.12 NMAC. The laboratory analytical results were below laboratory detection limits for all constituents analyzed. Analytical results are summarized in **Table 1** and **Appendix D**.



Logos Operating, LLC- Jicarilla 95-7B Release Closure Report February 2021 Page 3

Reclamation Activities

Logos's contractor completed the backfill of the subject excavation on February 11, 2021. The excavation was backfilled with JOGA approved, non-waste containing, earthen material. The site was recontoured and graded to prevent ponding and erosion. The location is an active site; therefore, the area was not prepped for seeding. Backfill photos are provided in **Appendix E**.

Summary and Conclusions

On February 3, 2021, Envirotech personnel completed confirmation sampling of the release closure that was completed at the Jicarilla 95-7B well site. Based on the analytical results; Envirotech recommends requesting a **No Further Action** status from the NMOCD and JOGA regarding the release closure.

Statement of Limitations

The work and services provided were in accordance with NMOCD and JOGA 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.

Brittany Hall

Environmental Field Technician

bhall@envirotech-inc.com

Reviewed by:

Felipe Aragon, ∕∕HMN

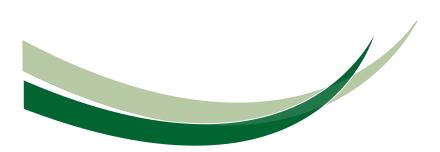
Environmental Assistant Manager

faragon@envirotech-inc.com

Figures

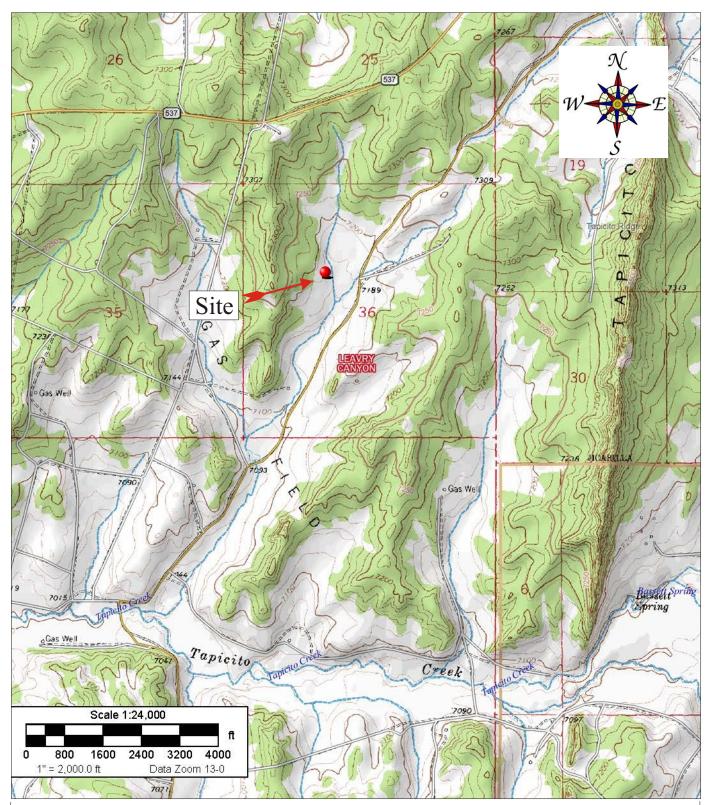


Figure 1, *Vicinity Map*Figure 2, *Site Map*





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Source: 7.5 Minute, Leavry Canyon, New Mexico U.S.G.S. Topographic Quadrangle Map

Scale: $1:24,000 \quad 1" = 2,000$

Logos Operating, LLC. Release Closure Report Jicarilla 95-7BWell Site API: 30-039-26854 Section 36, Township 27N, Range 3W Rio Arriba County, New Mexico

Project Number: 12035-0162

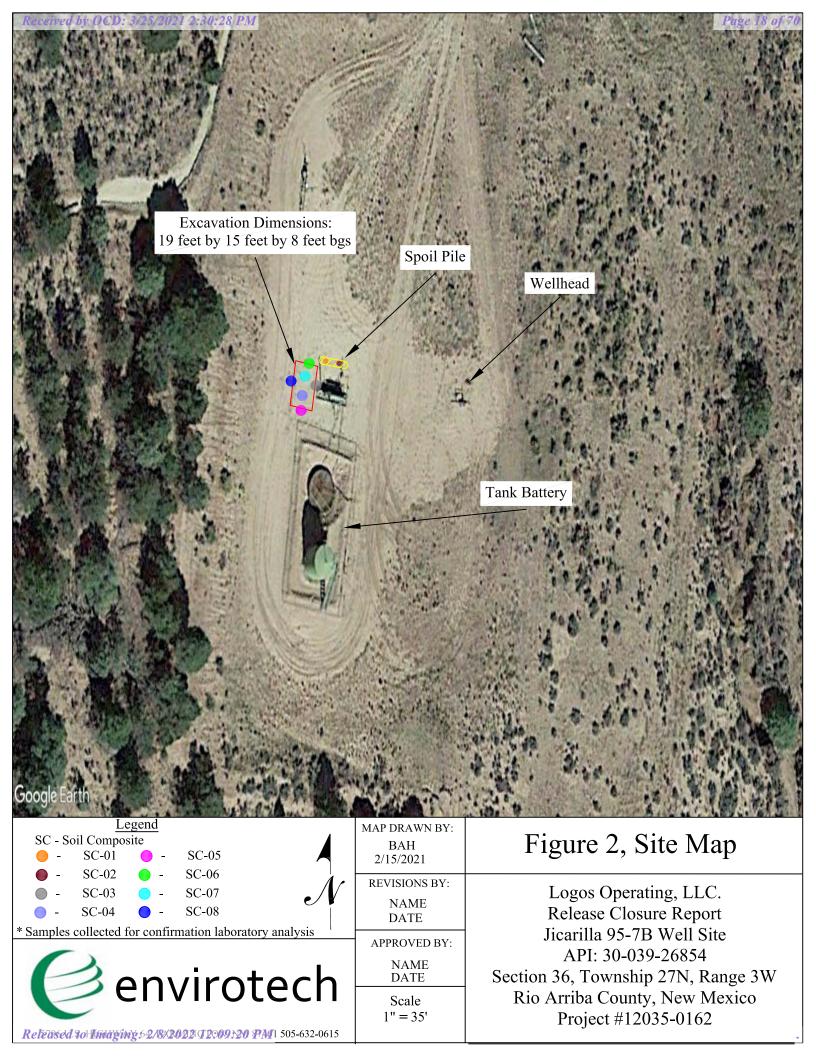
Date Drawn: 02/11/2021



5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615 Vicinity Map

Figure #1

DRAWN BY: Brittany Hall PROJECT MANAGER: Felipe Aragon



Tables



Table 1, Summary of Soil Analytical Results





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Received by OCD: 3/25/2021 2:30:28 PM

Table 1, Summary of Soil Analytical Results
Logos Operating, LLC
Release Closure Report
Jicarilla 95-7B; API: 30-039-26854
Section 36, Township 27N, Range 3W
Rio Arriba County, New Mexico
Project #12035-0162

				EPA Method 8015			EPA Method 8021		
Laboratory Sample ID	Date	Sample Depth	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)	
NMOCD Release Closure Criteria (Table 1 - 19.15.29.12 NMAC)				100 mg/kg	1	10 mg/kg	50 mg/kg	600 mg/kg	
SC-01		NA*	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0	
SC-02		NA*	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0	
SC-03		6 inches-8 feet	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0	
SC-04	2/3/2021	8 feet	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0	
SC-05	2/3/2021	6 inches-8 feet	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0	
SC-06		6 inches-8 feet	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0	
SC-07		8 feet	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0	
SC-08		6 inches-8 feet	<20.0	<25.0	<50.0	<0.025	<0.1	<20.0	

^{*-} sample collected from spoil pile



Appendix A



Siting Criteria Documentation

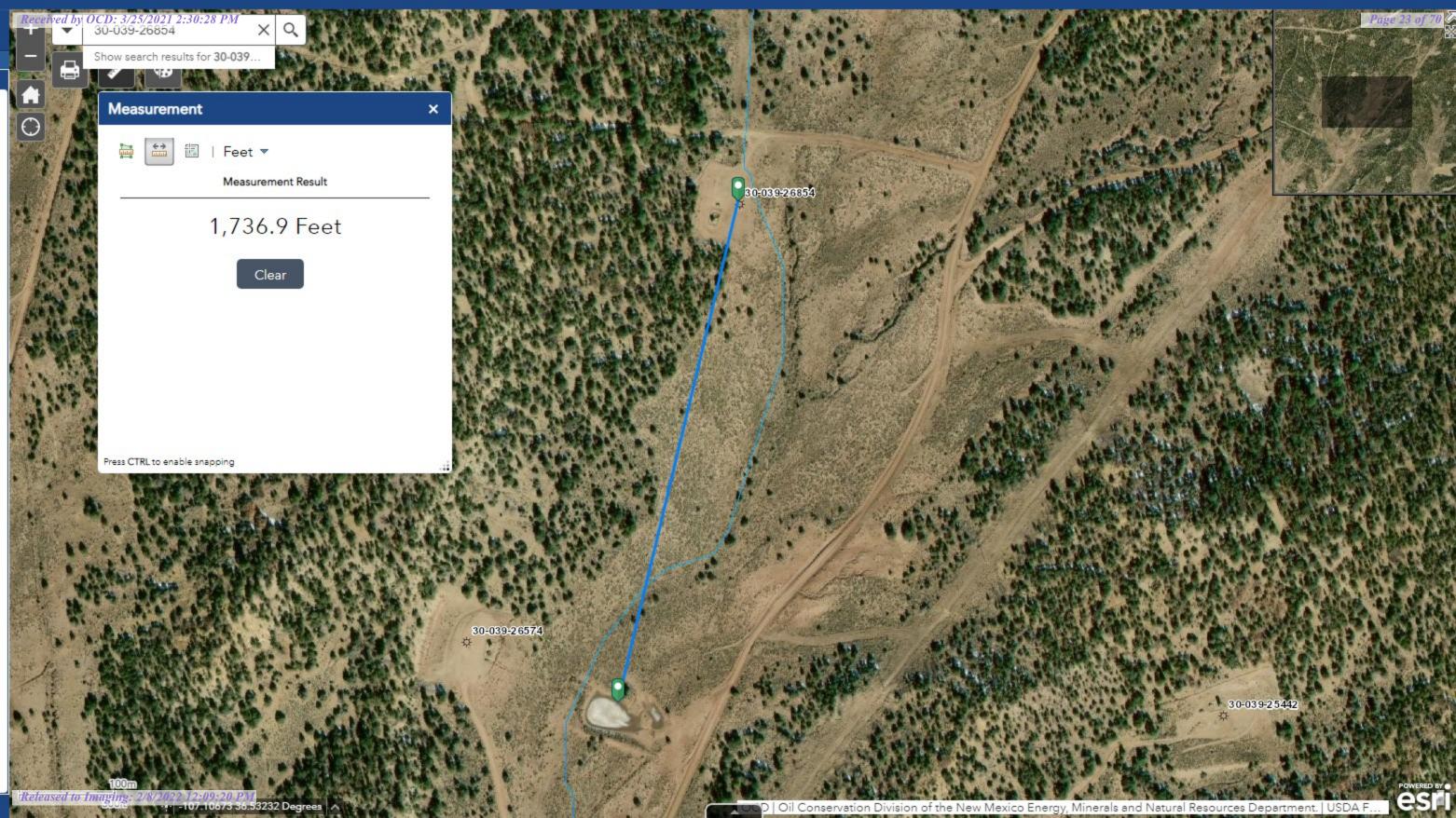




Practical Solutions for a Better Tomorrow

Site Name:	Jicarilla 95 7B							
API #: 30-039-26854								
	36.532089, -107.0	099235						
	Unit F Sec 36 T2							
Land Jurisdiction:		71110 5 11						
	Rio Arriba							
County:	Kio Airioa							
Wellhead Protection Area Assessment								
Water Source Type								
(well/spring/stock pond)	ID	Latitude	Longitude	Distance				
Distance to Nearest Significant Watercourse								
unamed tributary to Tapacito Creek runs throug	h location							
Depth to Groundwater Determination								
Cathodic Report/Site Specific Hydrogeology								
site elevation 7,191; Tapacito Creek 7,043; due to known spr Elevation Differential DTW estimated 50-100'								
Water Wells								
Sensitive Receptor Determination								
< 300' of any continuously flowing watercourse	or any other signif	icant waterco	ourse	Yes				
<200' of any lakebed, sinkhole or playa lake (me				No				
<300' of an occupied permanent residence, scho				No				
<500' of a spring or private/domestic water well	used by <5 house	holds for don	nestic or					
stock watering purposes				No				
<1000' of any water well or spring				No				
Within incorporated municipal boundaries or w	ithin a defined mu	nicipal fresh	water well	No				
<300' of a wetland				No				
Within the area overlying a subsurface mine				No				
Within an unstable area				No No				
	Within a 100-year floodplain							
DTW Determination		50-100	>100					
Benzene	10	10	10					
BTEX (mg/kg)		50	50					
8015 TPH (GRO/DRO) (mg/kg)		1,000	1,000					
8015 TPH (GRO/DRO/MRO) (mg/kg)		2,500	2,500					
Chlorides (mg/kg)	600	10,000	20,000					







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

No wells found.

PLSS Search:

Township: 27N Range: 03W

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

2/10/21 12:21 PM WELLS WITH WELL LOG INFORMATIO



Drought Tracker Online Meter Report Water Right Reporting System

Measurement

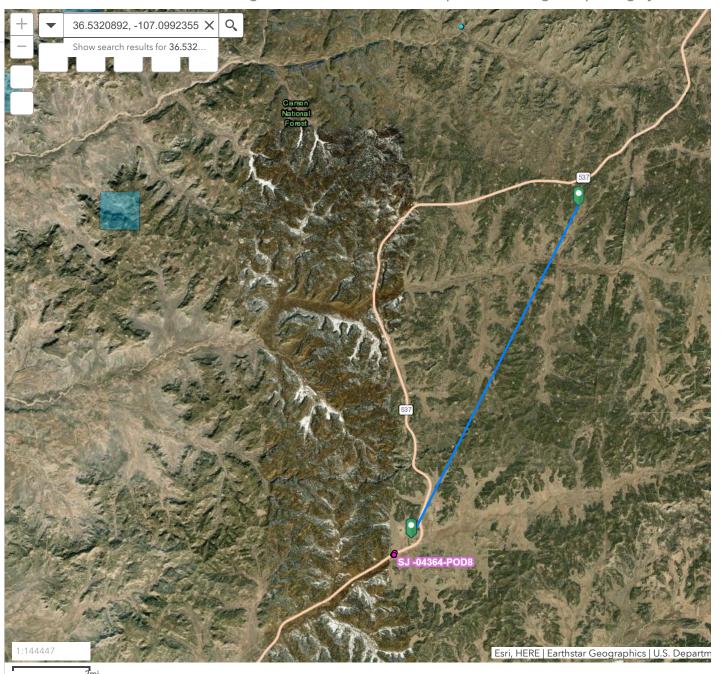
| Miles

Measurement Result

9.45 Miles

Clear

Press CTRL to enable snapping



-106.988 36.604 Degrees

Drought Tracker Online Meter Report Water Right Reporting System

Legend

Recently Edited PODs

GIS WATERS PODs

- Active
- Pending
- Change Location of Well
- Capped
- Plugged
- Incomplete
- Unknown

OSE District Boundary



OSE District Offices



Water Right Regulations



Critical Management Area - Guidelines



Local Ordinance Area



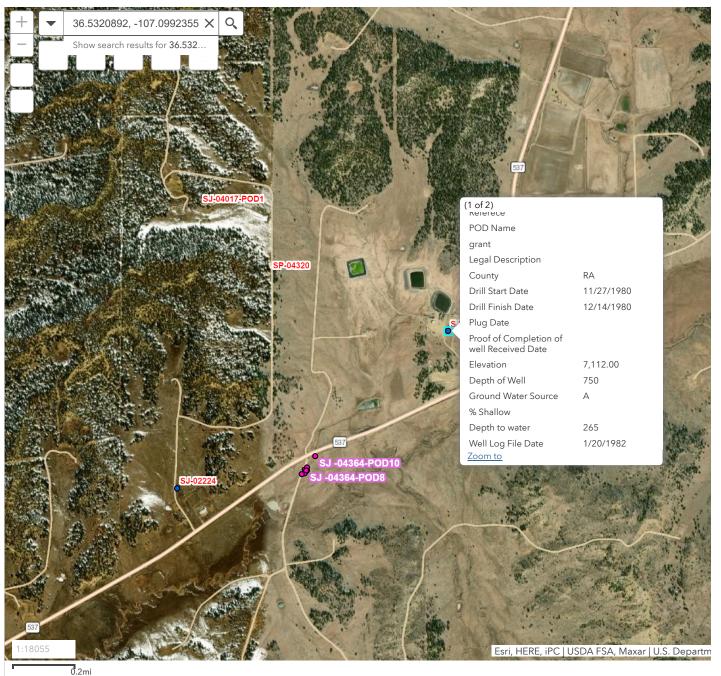
Special Condition Area



Negative Easement Area

Live Stream Gauges v1

Status



Page 26 of 70

Appendix B



Waste Disposal Documentation





Practical Solutions for a Better Tomorrow



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

Bill of Lading

GENERATOR COSOS

POINT OF ORIGIN JIC TRANSPORTER Kelley oil

LOAD		COMPLETE DESCRIPTION OF SHIPMENT								TRANSPO	RTING COMP	ANY
NO.	DESTINATION		MATERIAL	GRID	YDS	BBLS	DRUMS	TI	<t#< td=""><td>TRK#</td><td>TIME</td><td>DRIVER SIGNATURE</td></t#<>	TRK#	TIME	DRIVER SIGNATURE
1	LFII.5	C	on't50.2	A23	10		_		_	5/05	1630	men Nobert
					10							
							y					
					1	/						
RESULT	S		LANDFARM	0	/	/_	6	w	NOTES			
4297	CHLORIDE TEST	1	EMPLOYEE ()	Wy,	egi							3
	CHLORIDE TEST		☐ Soil w/ Debris ☐ Aft	er Hours/Wee	kend Receival	☐ Scrape (Out 🗆 Wash C	Out			1:	
	CHLORIDE TEST		By signing as the di	river/transpo	orter, I certif	y the mate	rial hauled fi	rom the	above I	ocation has n	not been adde	d to or tampered with. I
0455	PAINT FILTER TEST	1	into the lead Landfe									s been added or mixed

3/25/2021 2:30:28 PM

Signatures required prior to distribution of the legal document.

Generator Onsite Contact

DISTRIBUTION:

White - Company Records,

into the load. Landfarm employee signature is certification of the above material being received and placed accordingly.

Yellow - Billing,

Pink - Customer,

Phone

Goldenrod - LF Copy

K.O.F.



BOL#68093

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 01.2	9-21 TIME	1630	Attach test strip here
CUSTOMER	10905		Q. î
SITE	Jic 95 7B		DA NT A
DRIVER	Em Dloches	4	B
SAMPLE	Soil Straight V	Vith Dirt	8
CHLORIDE TEST	-299 mg/Kg		7
ACCEPTED	YES	NO	6
PAINT FILTER TEST	Time started	Time completed 1646	4
PASS	YES	NO	3-
SAMPLER/ANALYST	Gay Robinso		
5796 US Hwy 64, Farmington, NN	// 87401 Ph (505) 632-0615 Fr (800) 362-1879 Fx	(505) 632-1865 info@envirotech-inc.com	n envirotech-inc.com



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

MANIFEST # 68115 GENERATOR LOGOS 95-713 POINT OF ORIGIN JICARILLIA VruEVS TDANCDODTED

THANSFO	nı_n	1766475 016476617	_
DATE 2/	3/21	JOB # 12035-0155	

COMPLETE DESCRIPTION OF SHIPMENT LOAD TRANSPORTING COMPANY NO. DESTINATION MATERIAL GRID DRUMS DRIVER SIGNATURE YDS BBLS TKT# TRK# TIME CONT SOIL CZ3 LF ITS 5105 **RESULTS** LANDFARM Gw **NOTES EMPLOYEE** 1299 **CHLORIDE TEST CHLORIDE TEST** ☐ Soil w/ Debris ☐ After Hows/Weekeng Receival ☐ Scrape Out ☐ Wash Out By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I **CHLORIDE TEST**

3/25/2021 Generator Onsite Contact

PAINT FILTER TEST

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.

Phone

2/8/2022 12:09:20 PM



BOL# 68115

CHLORIDE TESTING / PAINT FILTER TESTING

DATE 2/3/2	21	ТІ	ME	1405	Attach test	strip here
CUSTOMER	Logo) 5	_		G) A Z	
SITE	JICHRIC	LA 95-	-76		AB	
DRIVER	X Emm	- Thul	nd		9	
SAMPLE	Soil	Straight	With	n Dirt	8	
CHLORIDE TEST	-299	mg/Kg			6	
ACCEPTED	YES		N	0	5	
PAINT FILTER TEST	Time started	1605	Ti	me completed 1610	3.	
PASS	YES		N	0	2-	
SAMPLER/ANALYST		111	11/			

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 C



Field Notes with EPA 418.1 Field Screening Reports





Practical Solutions for a Better Tomorrow

	1 00 0				 .					
CLIENT:	10905	_				Envmtl. Sp	clst:	DC		
CLIENT/JOB #:	2/1/21	(3)	envi	rotec	h	C.O.C. No:	,			
START DATE:	2/1/21	(10	08) 632-061	5 (800) 862-	1879	LAT	36.5320	892		
FINISH DATE:	- 42	6700	U.S. Hwy 64,	Fermington, N	M 87461	LONG	-107.0	99 2355		
Page #	of									
Field Report: Spill Closure Verification										
LOCATION:	Name: 3 1001	1119 95		Well #:	刀房		API: 30-03	9-2685W		
	County: Rio	ANN'DA		State:	vew 1	NERICO				
Cause of Release:		ANN. BA	Material Re	leased:			Amt. Release	d:		
QUAD/UNIT:		36					PM:			
Spill Located Approx				FROM						
	10 FT. X	15	FT. X	. 5	FT:	Cubic Yarda	nge:	278		
Disposal Facility:								, ,		
Land Use: \olin	7.40 A					Land Owner	J. CAN	41100		
REGULATORY AG		-, LAN, 411.	0				106 PF			
	SURE REQUIREMENTS:		·		IIII CLO	OKE STD.	Took	ZVI.		
		and the same of the same	D 418.1 / P	ID ANLAY:	212					
			11011,1	ZE ZEI VEZZE I				LABORATORY		
SAMPLE NAME	SAMPLE DESCRIPTION	N/NOTE	TIME	READING	CALC. ppm	PID/OV	TIME	LABORATORY ANALYSIS		
50-01	Base		16:34	5.01	256	10,6	16:48			
		·						-		
										
	-	_								
	<u> </u>		NOT	ES:						
CS-COMPOSITE SAMPLE										
GS-GRAB SAMPLE SB-SOIL BORING										
TP-TEST PIT										
DU- DECISION UNIT								ļ		
ST-STATION										

Page 1 Of ____

SPILL PERIMETER: Draw a schematic of the spill site. Attach photos and other diagrams as needed.	
spirit separater e weithead the separater e weithead	
EXCAVATION PROFILE:	\dashv
OTES:	
/O#: Who Ordered/Site Rep:	

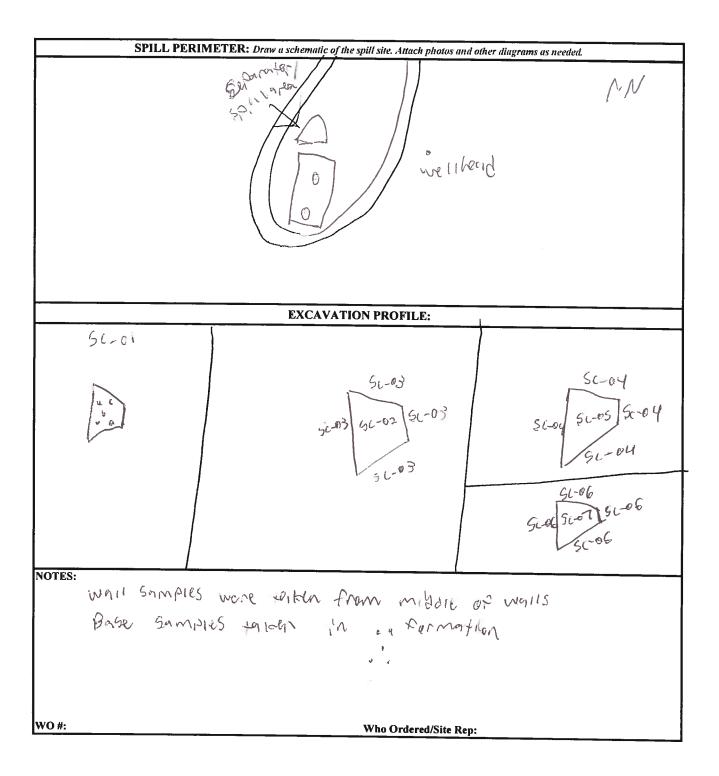
OF FENTS	lagac				- 4	T			
CLIENT:	10905			_	_	Envmtl. S	•		50
CLIENT/JOB #:	12039-0162	(3	envi	rotec	:h	C.O.C. No	: 25 00	2	
START DATE:	2/2/21	670	505) 632-061	# (\$00) 262-	1879	LAT	36.53	40 40	12
FINISH DATE:		""	4 0.0. NWy 64	i i ancomilia esti id	III 11/447	LONG	-107.00	9235	55
Page #	of	r Carlotticario	0 111 01	Water College William					
LOCATION:				osure Ver	12,700				
LOCATION:	7,00	-	95	-			API: 30	0-039-	26954
G CD I	County: R_i^0			State:	New M	exico	-		
Cause of Release:			_Material R			<u></u>	Amt. Release	ed:	
QUAD/UNIT:				27N			PM:		
1	simately: 76			FROM				0	
1	<u>[</u> 5ftx	19	_FT. X		_FT.	Cubic Yard	lage:	28	4
Disposal Facility: Land Use: (6 C)	1.100		_				100	01116	
		- las 111		-			er: Ti ca		
REGULATORY AG			<u>1</u>	•	TPH CLOS	SURE STD:		_	<u> </u>
ADDITIONAL CLO	SURE REQUIREMENTS	the same of the same	D 410 1 / D	TID A RYF A RY	GYO	dall-debugger	si tenonelluma	elation delate	Metallisatetis
		FIEL	418.1 / F	ID ANLAY:	515				
SAMPLE NAME	SAMPLE DESCRIPTION	N / NOTE	TIME	READING	CALC. ppm	PID/OV	TIME		RATORY LYSIS
	200 5 10		12102		752		TO THE	71.11	J I BIS
	500 Std		12:05	496	1964				
	1250 Std	405.7	12:08		11956	/			
56- 61	Composite 1		12:13	31	124	1.	12:24		
	Base 1		12-91	40	160	1,6	13:02		
Sc-07	wails 1		12:54		164	6.2	13:04		
*	2005+0		13:08	194	736				
, , , , , , , , , , , , , , , , , , ,	500 5td		13:10	492	1928	/			
	1290 std		13:12		4592				
SEOYDC	Base 1	- 1	13:30	28	112		/		
56-03	walls 1		13:34		129		7		
9 C-04	ma (15 2		14143		32-8	5.3	14155		
96-05	Base 2		14146		320	1.3	14557	-/	
G5 -01	Background		15:04		328	0.0	15:15		
3 0 .	- Rotter of the Co		NOT			0.0	15, (5)		- S
CS-COMPOSITE SAMPLE	Tasan w	14h 18	400	Na A+5	TPH	PPN	12216	ן עט (00
GS-GRAB SAMPLE	Jason w on field 5	Critical	no he	Sans.	TUMPIN	la in	Simai	24	
SB-SOIL BORING TP-TEST PIT		-1 -0111	Thy sac	TOIL	,	7 '	o-manla!	3	
DU- DECISION UNIT									
ST-STATION									25%
	22								
						70.55			13

Page 1 Of 3

56-0

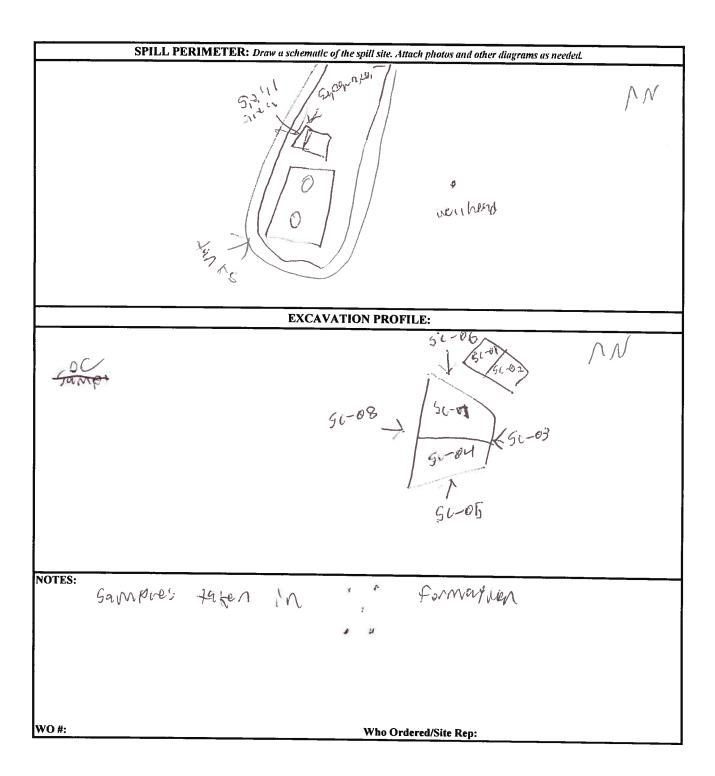
CLIENT:		· ·	·	<u> </u>		Enumai S			
CLIENT/JOB #:					Envmtl. Spelst: C.O.C. No:				
START DATE:		envirotech							
		(505) 632-0615 (500) 362-1670 6786 U.S. Hwy 64, Fermington, NM 87461			1870 M 87484	LAT			
FINISH DATE:						LONG			
Page #of									
LOCATION:	Field Report: Spill Closure Verification OCATION: Name: Well #: API:								
ECCATION.	County:	State:			API;				
Course & Date	County.				Ama Dalassad				
Cause of Release:			Material Released:			Amt. Released:			
QUAD/UNIT:			TWP:		RNG:		PM:		
Spill Located Approx				FROM					
	FT. X		FT. X		FT.	Cubic Yard	age:		
Disposal Facility:			_						
Land Use:	Land Owner:								
REGULATORY AG	Y AGENCY: TPH CLOSURE STD:								
ADDITIONAL CLO	SURE REQUIREMENTS:								
FIELD 418.1 / PID ANLAYSIS									
CAMBLENAME	CAMPLE DECORPORTO	N (NOTE						LABORATORY	
SAMPLE NAME SC-06	SAMPLE DESCRIPTIO	N/NOTE	15,54	READING GG			TIME	ANALYSIS	
	Base 3		10,59	83	352	0,0	16:06		
56-07	Bache J	<u></u>	15:56		332	0.6	16:10		
	<u> </u>		 						
<u>.</u>				_					
		_				_			
_								-	
						-			
			 					_	
			NOT	ES:	l				
CS-COMPOSITE SAMPLE									
GS-GRAB SAMPLE									
SB-SOIL BORING									
TP-TEST PIT									
DU- DECISION UNIT ST-STATION									
111 2									
			_						

Page #Of_____3



CLIENT:	10905	Ferrying					Envmtl. S	oclst:	DC
CLIENT/JOB #:	12615-6		0	anvi	roted	· h	C.O.C. No	:	
START DATE:	2/3/				10160	. ! !	LAT	36,632	8 99 Z
FINISH DATE:			8786 U.S. Hwy 64, Farmington, NI			IM 87401	LONG	-107,09	
Page #	of						Long	0,,,,	16333
		Field	Report:	Spill Cl	osure Ve	rification			
LOCATION:	Name:		119 9					API:	34-039-2686
			Arribo				w new	-	
Cause of Release:	•	/		Material Ro	- eleased:			- Amt. Release	ed:
QUAD/UNIT:		SEC:		-	27N	RNO	G: 3W	- PM:	
Spill Located Approx	kimately:			***	FROM		211/1 /2		<u> </u>
Excavation Approx:	-			FT. X	8	FT.	Cubic Yard	lage: \	m 84
Disposal Facility:		/ -		-		-			
Land Use:				-			Land Owner	er: 7 / 05,	1,916
REGULATORY AG	ENCY:	54974	J'COM	1110		TPH CL	OSURE STD:		
ADDITIONAL CLO	-				-				
			FIELI	D 418.1 / P	ID ANLAY	SIS			
									LABORATORY
SAMPLE NAME		DESCRIPTION		TIME/	READING	CALC, ppi		TIME	ANALYSIS
90-02		St Spoi				-	0,3	13,35	2
		GOOIL					0.0	13:36	
50103	Eas		4-			 	0,0	13:37	
56-04	South		basic				0,0	13,38	
50-05	southe		3				0 0	13:39	
56-06	NOWN						0_0	13:40	
9C-07		un i					0,0	13,41	V/
Sc-08	west	ern v	11194		1		0,0	13:42	\checkmark
					<u></u>				
	1	-		NOT	ES:				
CS-COMPOSITE SAMPLE									
GS-GRAB SAMPLE SB-SOIL BORING									
TP-TEST PIT									
DU- DECISION UNIT									
ST-STATION									

Page 1 Of 2





CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Cal. Date: 1-Feb-21

Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
TPH	100		
IFN	200	188	
	500	100	
	1000		
	5000		

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

Buttary Hall for	2/23/2021
Analyst	Date
Damon Carter	
Print Name	
- Clyo frag-	2/23/2021
Review	Date

Felipe Aragon, CES, CHMM

Print Name



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Logos Operating, LLC

Project #: 12035-016

Date Reported:

Date Sampled:

Sample No.:

1

2/23/2021

Sample ID: Sample Matrix: SC-01

2/1/2021

Preservative:

Soil Cool Date Analyzed: 2/1/2021

Condition:

Cool and Intact

Analysis Needed: TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

236

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.

Analyst

or

Anaiysi

Review

Damon Carter

Felipe Aragon, CES, CHMM
Printed

Printed



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Logos Operating, LLC

12035-016

Sample No.:

1

2/23/2021

Sample ID: Sample Matrix: SC-06

2/3/2021

Preservative:

Soil Cool 2/3/2021

Condition:

Cool and Intact

Analysis Needed: TPH-418.1

Project #:

Date Reported:

Date Sampled:

Date Analyzed:

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

352

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.

Δnalvet

Review

Damon Carter

Printed

Felipe Aragon, CES, CHMM

Printed



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Logos Operating, LLC

12035-016

Sample No.:

2

2/23/2021

Sample ID: Sample Matrix: SC-07

2/3/2021

Preservative:

Soil Cool 2/3/2021

Condition:

Cool and Intact

Analysis Needed: TPH-418.1

Project #:

Date Reported:

Date Sampled:

Date Analyzed:

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

332

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.

Δnalvet

Printed

Review

Printed

Damon Carter

Felipe Aragon, CES, CHMM

Released to Imaging: 2/8/2022 12:09:20 PM

Appendix D



Laboratory Analytical Report





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: E102008

Job Number: 12035-0159

Received: 2/4/2021

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 2/8/21

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM009792018-1 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 2/8/21

Felipe Aragon 2010 Afton Place Farmington, NM 87401



Project Name: Jicarilla 95-7B Confirmation Sampling

Workorder: E102008

Date Received: 2/4/2021 8:23:00AM

Felipe Aragon,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/4/2021 8:23:00AM, 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

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SC-08	12
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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	15
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Chain of Custody etc	18

Sample Summary

ſ	Logos Operating, LLC	Project Name:	Jicarilla 95-7B Confirmation Sampling	Donoutoda
l	2010 Afton Place	Project Number:	12035-0159	Reported:
l	Farmington NM, 87401	Project Manager:	Felipe Aragon	02/08/21 12:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SC-01	E102008-01A	Soil	02/03/21	02/04/21	Glass Jar, 4 oz.
	E102008-01B	Soil	02/03/21	02/04/21	Glass Jar, 4 oz.
SC-02	E102008-02A	Soil	02/03/21	02/04/21	Glass Jar, 4 oz.
	E102008-02B	Soil	02/03/21	02/04/21	Glass Jar, 4 oz.
SC-03	E102008-03A	Soil	02/03/21	02/04/21	Glass Jar, 4 oz.
	E102008-03B	Soil	02/03/21	02/04/21	Glass Jar, 4 oz.
SC-04	E102008-04A	Soil	02/03/21	02/04/21	Glass Jar, 4 oz.
	E102008-04B	Soil	02/03/21	02/04/21	Glass Jar, 4 oz.
SC-05	E102008-05A	Soil	02/03/21	02/04/21	Glass Jar, 4 oz.
	E102008-05B	Soil	02/03/21	02/04/21	Glass Jar, 4 oz.
SC-06	E102008-06A	Soil	02/03/21	02/04/21	Glass Jar, 4 oz.
	E102008-06B	Soil	02/03/21	02/04/21	Glass Jar, 4 oz.
SC-07	E102008-07A	Soil	02/03/21	02/04/21	Glass Jar, 4 oz.
	E102008-07B	Soil	02/03/21	02/04/21	Glass Jar, 4 oz.
SC-08	E102008-08A	Soil	02/03/21	02/04/21	Glass Jar, 4 oz.
	E102008-08B	Soil	02/03/21	02/04/21	Glass Jar, 4 oz.

Logos Operating, LLC	Project Name:	Jicarilla 95-7B Confirmation Sampling	
2010 Afton Place	Project Number:	12035-0159	Reported:
Farmington NM, 87401	Project Manager:	Felipe Aragon	2/8/2021 12:52:14PM

SC-01 E102008-01

		2102000 01				
	D 1:	Reporting				27.
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	Analyst: IY		Batch: 2106027
Benzene	ND	0.0250	1	02/04/21	02/05/21	
Toluene	ND	0.0250	1	02/04/21	02/05/21	
Ethylbenzene	ND	0.0250	1	02/04/21	02/05/21	
p,m-Xylene	ND	0.0500	1	02/04/21	02/05/21	
o-Xylene	ND	0.0250	1	02/04/21	02/05/21	
Total Xylenes	ND	0.0250	1	02/04/21	02/05/21	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	02/04/21	02/05/21	
Surrogate: Toluene-d8		96.9 %	70-130	02/04/21	02/05/21	
Surrogate: Bromofluorobenzene		92.2 %	70-130	02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: IY		Batch: 2106027
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/04/21	02/05/21	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	02/04/21	02/05/21	
Surrogate: Toluene-d8		96.9 %	70-130	02/04/21	02/05/21	
Surrogate: Bromofluorobenzene		92.2 %	70-130	02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: JL		Batch: 2106030
Diesel Range Organics (C10-C28)	ND	25.0	1	02/04/21	02/04/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/04/21	02/04/21	
Surrogate: n-Nonane		92.1 %	50-200	02/04/21	02/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Α	Analyst: RAS		Batch: 2106029
Chloride	ND	20.0	1	02/04/21	02/04/21	



Logos Operating, LLC	Project Name:	Jicarilla 95-7B Confirmation Sampling	
2010 Afton Place	Project Number:	12035-0159	Reported:
Farmington NM, 87401	Project Manager:	Felipe Aragon	2/8/2021 12:52:14PM

SC-02

		Reporting					
Analyte	Result	Limit	Dilut	tion I	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY			Batch: 2106027
Benzene	ND	0.0250	1	(02/04/21	02/05/21	
Toluene	ND	0.0250	1	(02/04/21	02/05/21	
Ethylbenzene	ND	0.0250	1	(02/04/21	02/05/21	
p,m-Xylene	ND	0.0500	1	(02/04/21	02/05/21	
o-Xylene	ND	0.0250	1	(02/04/21	02/05/21	
Total Xylenes	ND	0.0250	1	(02/04/21	02/05/21	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	(02/04/21	02/05/21	
Surrogate: Toluene-d8		97.2 %	70-130	(02/04/21	02/05/21	
Surrogate: Bromofluorobenzene		91.2 %	70-130	(02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY			Batch: 2106027
Gasoline Range Organics (C6-C10)	ND	20.0	1	(02/04/21	02/05/21	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	(02/04/21	02/05/21	
Surrogate: Toluene-d8		97.2 %	70-130	(02/04/21	02/05/21	
Surrogate: Bromofluorobenzene		91.2 %	70-130	(02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: JL			Batch: 2106030
Diesel Range Organics (C10-C28)	ND	25.0	1	(02/04/21	02/04/21	
Oil Range Organics (C28-C35)	ND	50.0	1	(02/04/21	02/04/21	
Surrogate: n-Nonane		103 %	50-200	(02/04/21	02/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: RAS	S		Batch: 2106029
Amons by ETA 500.0/7050A							



Logos Operating, LLCProject Name:Jicarilla 95-7B Confirmation Sampling2010 Afton PlaceProject Number:12035-0159Reported:Farmington NM, 87401Project Manager:Felipe Aragon2/8/2021 12:52:14PM

SC-03

		2102000 00					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:			Batch: 2106027
Benzene	ND	0.0250		1	02/04/21	02/05/21	Batem 2100027
Toluene	ND	0.0250		1	02/04/21	02/05/21	
Ethylbenzene	ND	0.0250		1	02/04/21	02/05/21	
p,m-Xylene	ND	0.0500		1	02/04/21	02/05/21	
o-Xylene	ND	0.0250		1	02/04/21	02/05/21	
Total Xylenes	ND	0.0250		1	02/04/21	02/05/21	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130		02/04/21	02/05/21	
Surrogate: Toluene-d8		97.7 %	70-130		02/04/21	02/05/21	
Surrogate: Bromofluorobenzene		93.2 %	70-130		02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2106027
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/04/21	02/05/21	
Surrogate: 1,2-Dichloroethane-d4		99.5 %	70-130		02/04/21	02/05/21	
Surrogate: Toluene-d8		97.7 %	70-130		02/04/21	02/05/21	
Surrogate: Bromofluorobenzene		93.2 %	70-130		02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2106030
Diesel Range Organics (C10-C28)	ND	25.0		1	02/04/21	02/04/21	
Oil Range Organics (C28-C35)	ND	50.0		1	02/04/21	02/04/21	
Surrogate: n-Nonane		97.8 %	50-200		02/04/21	02/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2106029
Chloride	ND	20.0		1	02/04/21	02/05/21	



Logos Operating, LLCProject Name:Jicarilla 95-7B Confirmation Sampling2010 Afton PlaceProject Number:12035-0159Reported:Farmington NM, 87401Project Manager:Felipe Aragon2/8/2021 12:52:14PM

SC-04

_		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2106027
Benzene	ND	0.0250		1	02/04/21	02/05/21	
Toluene	ND	0.0250		1	02/04/21	02/05/21	
Ethylbenzene	ND	0.0250		1	02/04/21	02/05/21	
p,m-Xylene	ND	0.0500		1	02/04/21	02/05/21	
o-Xylene	ND	0.0250		1	02/04/21	02/05/21	
Total Xylenes	ND	0.0250		1	02/04/21	02/05/21	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		02/04/21	02/05/21	
Surrogate: Toluene-d8		97.1 %	70-130		02/04/21	02/05/21	
Surrogate: Bromofluorobenzene		92.2 %	70-130		02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2106027
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/04/21	02/05/21	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130		02/04/21	02/05/21	
Surrogate: Toluene-d8		97.1 %	70-130		02/04/21	02/05/21	
Surrogate: Bromofluorobenzene		92.2 %	70-130		02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2106030
Diesel Range Organics (C10-C28)	ND	25.0		1	02/04/21	02/04/21	
Oil Range Organics (C28-C35)	ND	50.0		1	02/04/21	02/04/21	
Surrogate: n-Nonane		101 %	50-200		02/04/21	02/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2106029
Amons by ETA 500.0/7050A							



Logos Operating, LLC	Project Name:	Jicarilla 95-7B Confirmation Sampling	
2010 Afton Place	Project Number:	12035-0159	Reported:
Farmington NM, 87401	Project Manager:	Felipe Aragon	2/8/2021 12:52:14PM

SC-05

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2106027
Benzene	ND	0.0250		1	02/04/21	02/05/21	
Toluene	ND	0.0250		1	02/04/21	02/05/21	
Ethylbenzene	ND	0.0250		1	02/04/21	02/05/21	
p,m-Xylene	ND	0.0500		1	02/04/21	02/05/21	
o-Xylene	ND	0.0250		1	02/04/21	02/05/21	
Total Xylenes	ND	0.0250	į	1	02/04/21	02/05/21	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		02/04/21	02/05/21	
Surrogate: Toluene-d8		99.5 %	70-130		02/04/21	02/05/21	
Surrogate: Bromofluorobenzene		95.6 %	70-130		02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2106027
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/04/21	02/05/21	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		02/04/21	02/05/21	
Surrogate: Toluene-d8		99.5 %	70-130		02/04/21	02/05/21	
Surrogate: Bromofluorobenzene		95.6 %	70-130		02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2106030
Diesel Range Organics (C10-C28)	ND	25.0		1	02/04/21	02/04/21	
Oil Range Organics (C28-C35)	ND	50.0		1	02/04/21	02/04/21	
Surrogate: n-Nonane		97.0 %	50-200		02/04/21	02/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2106029

Logos Operating, LLC	Project Name:	Jicarilla 95-7B Confirmation Sampling	
2010 Afton Place	Project Number:	12035-0159	Reported:
Farmington NM, 87401	Project Manager:	Felipe Aragon	2/8/2021 12:52:14PM

SC-06

		Reporting		•			
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY			Batch: 2106027
Benzene	ND	0.0250	1	1	02/04/21	02/05/21	
Toluene	ND	0.0250	1	1	02/04/21	02/05/21	
Ethylbenzene	ND	0.0250	1	1	02/04/21	02/05/21	
p,m-Xylene	ND	0.0500	1	l	02/04/21	02/05/21	
o-Xylene	ND	0.0250	1	l	02/04/21	02/05/21	
Total Xylenes	ND	0.0250	1	1	02/04/21	02/05/21	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/04/21	02/05/21	
Surrogate: Toluene-d8		97.5 %	70-130		02/04/21	02/05/21	
Surrogate: Bromofluorobenzene		94.0 %	70-130		02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: 1	ΙΥ		Batch: 2106027
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	02/04/21	02/05/21	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		02/04/21	02/05/21	
Surrogate: Toluene-d8		97.5 %	70-130		02/04/21	02/05/21	
Surrogate: Bromofluorobenzene		94.0 %	70-130		02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	-	Analyst: .	ΠL		Batch: 2106030
Diesel Range Organics (C10-C28)	ND	25.0	1	1	02/04/21	02/04/21	
Oil Range Organics (C28-C35)	ND	50.0	1	1	02/04/21	02/04/21	
Surrogate: n-Nonane		99.1 %	50-200		02/04/21	02/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	-	Analyst: 1	RAS		Batch: 2106029
Chloride	ND	20.0	1	1	02/04/21	02/05/21	



Logos Operating, LLCProject Name:Jicarilla 95-7B Confirmation Sampling2010 Afton PlaceProject Number:12035-0159Reported:Farmington NM, 87401Project Manager:Felipe Aragon2/8/2021 12:52:14PM

SC-07

_		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2106027
Benzene	ND	0.0250		1	02/04/21	02/05/21	
Toluene	ND	0.0250		1	02/04/21	02/05/21	
Ethylbenzene	ND	0.0250		1	02/04/21	02/05/21	
p,m-Xylene	ND	0.0500		1	02/04/21	02/05/21	
o-Xylene	ND	0.0250		1	02/04/21	02/05/21	
Total Xylenes	ND	0.0250		1	02/04/21	02/05/21	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		02/04/21	02/05/21	
Surrogate: Toluene-d8		98.2 %	70-130		02/04/21	02/05/21	
Surrogate: Bromofluorobenzene		94.6 %	70-130		02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2106027
Gasoline Range Organics (C6-C10)	ND	20.0		1	02/04/21	02/05/21	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		02/04/21	02/05/21	
Surrogate: Toluene-d8		98.2 %	70-130		02/04/21	02/05/21	
Surrogate: Bromofluorobenzene		94.6 %	70-130		02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2106030
Diesel Range Organics (C10-C28)	ND	25.0		1	02/04/21	02/04/21	
Oil Range Organics (C28-C35)	ND	50.0		1	02/04/21	02/04/21	
Surrogate: n-Nonane		101 %	50-200		02/04/21	02/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2106029
Amons by ETA 500.0/7050A							



Logos Operating, LLCProject Name:Jicarilla 95-7B Confirmation Sampling2010 Afton PlaceProject Number:12035-0159Reported:Farmington NM, 87401Project Manager:Felipe Aragon2/8/2021 12:52:14PM

SC-08

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2106027
Benzene	ND	0.0250	1		02/04/21	02/05/21	
Toluene	ND	0.0250	1		02/04/21	02/05/21	
Ethylbenzene	ND	0.0250	1		02/04/21	02/05/21	
p,m-Xylene	ND	0.0500	1	l	02/04/21	02/05/21	
o-Xylene	ND	0.0250	1	l	02/04/21	02/05/21	
Total Xylenes	ND	0.0250	1	ļ.	02/04/21	02/05/21	
Surrogate: 1,2-Dichloroethane-d4	·	111 %	70-130		02/04/21	02/05/21	
Surrogate: Toluene-d8		97.6 %	70-130		02/04/21	02/05/21	
Surrogate: Bromofluorobenzene		94.1 %	70-130		02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst:	IY		Batch: 2106027
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	02/04/21	02/05/21	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130		02/04/21	02/05/21	
Surrogate: Toluene-d8		97.6 %	70-130		02/04/21	02/05/21	
Surrogate: Bromofluorobenzene		94.1 %	70-130		02/04/21	02/05/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	Л		Batch: 2106030
Diesel Range Organics (C10-C28)	ND	25.0	1		02/04/21	02/04/21	
Oil Range Organics (C28-C35)	ND	50.0	1	<u> </u>	02/04/21	02/04/21	
Surrogate: n-Nonane		106 %	50-200		02/04/21	02/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2106029



QC Summary Data

Logos Operating, LLC 2010 Afton Place	Project Name: Project Number:	Jicarilla 95-7B Confirmation Sampling 12035-0159	Reported:
Farmington NM, 87401	Project Manager:	Felipe Aragon	2/8/2021 12:52:14PM
	Volatile Organic Co	ompounds by EPA 8260B	Analyst: IY

Farmington NW, 87401		Project Manage	r. re	inpe Aragon				2/6/	2021 12.32.14FW
	V	olatile Organ	ic Compo	unds by EI	PA 82601	В			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2106027-BLK1)						Pre	pared: 02/0	14/21 Analyze	d: 02/04/21
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	0.537	******	0.500		107	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			
Surrogate: 10tuene-40 Surrogate: Bromofluorobenzene	0.494		0.500		98.5	70-130			
LCS (2106027-BS1)						Pre	pared: 02/0	04/21 Analyze	d: 02/04/21
Benzene	2.45	0.0250	2.50		98.0	70-130			
Toluene	2.50	0.0250	2.50		100	70-130			
Ethylbenzene	2.45	0.0250	2.50		98.1	70-130			
p,m-Xylene	4.69	0.0500	5.00		93.9	70-130			
o-Xylene	2.36	0.0250	2.50		94.4	70-130			
Total Xylenes	7.05	0.0250	7.50		94.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506	0.0250	0.500		101	70-130			
Surrogate: Toluene-d8	0.482		0.500		96.3	70-130			
Surrogate: Bromofluorobenzene	0.450		0.500		89.9	70-130			
Matrix Spike (2106027-MS1)				Sou	rce: E102	007-01 Pre	pared: 02/0	14/21 Analyze	d: 02/04/21
Benzene	2.51	0.0250	2.50	ND	101	48-131			
Toluene	2.53	0.0250	2.50	ND	101	48-130			
Ethylbenzene	2.51	0.0250	2.50	ND	100	45-135			
p,m-Xylene	4.81	0.0500	5.00	ND	96.1	43-135			
o-Xylene	2.42	0.0250	2.50	ND	96.8	43-135			
Total Xylenes	7.23	0.0250	7.50	ND	96.4	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.546		0.500		109	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.6	70-130			
Surrogate: Bromofluorobenzene	0.696		0.500		139	70-130			S3
Matrix Spike Dup (2106027-MSD1)				Sou	rce: E102	007-01 Pre	pared: 02/0	04/21 Analyze	d: 02/04/21
Benzene	2.36	0.0250	2.50	ND	94.6	48-131	6.11	23	
Toluene	2.43	0.0250	2.50	ND	97.1	48-130	3.96	24	
Ethylbenzene	2.44	0.0250	2.50	ND	97.6	45-135	2.89	27	
p,m-Xylene	4.67	0.0500	5.00	ND	93.3	43-135	2.99	27	
o-Xylene	2.36	0.0250	2.50	ND	94.4	43-135	2.53	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	2.83	27	
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			
- n n n			0.500		156	70 120			62



0.500

156

70-130

Surrogate: Bromofluorobenzene

0.782

Surrogate: Toluene-d8

Surrogate: Bromofluor obenzene

S3

QC Summary Data

Logos Operating, LLC Project Name: Jicarilla 95-7B Confirmation Sampling Reported:

2010 Afton Place Project Number: 12035-0159

Farmington NM, 87401 Project Manager: Felipe Aragon 2/8/2021 12:52:14PM

Farmington NM, 87401		Project Manage	r: Fe	lipe Aragon				2/8/	2021 12:52:14PM
	Non	halogenated	Organics l	by EPA 80	15D - G	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2106027-BLK1)						Pre	pared: 02/0)4/21 Analyze	d: 02/04/21
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1,2-Dichloroethane-d4	0.537		0.500		107	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
LCS (2106027-BS2)						Pre	pared: 02/0	04/21 Analyze	d: 02/04/21
Gasoline Range Organics (C6-C10)	50.8	20.0	50.0		102	70-130			
Gurrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.485		0.500		97.0	70-130			
Surrogate: Bromofluorobenzene	0.447		0.500		89.3	70-130			
Matrix Spike (2106027-MS2)				Sou	rce: E102	007-01 Pre	pared: 02/0	04/21 Analyze	d: 02/04/21
Gasoline Range Organics (C6-C10)	91.7	20.0	50.0	46.1	91.2	70-130			
Gurrogate: 1,2-Dichloroethane-d4	0.525		0.500		105	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			
Surrogate: Bromofluorobenzene	0.702		0.500		140	70-130			S3
Matrix Spike Dup (2106027-MSD2)				Sou	rce: E102	007-01 Pre	pared: 02/0	04/21 Analyze	d: 02/04/21
Gasoline Range Organics (C6-C10)	104	20.0	50.0	46.1	115	70-130	12.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130			

0.500

0.500

0.503

101

174

70-130

70-130



QC Summary Data

Logos Operating, LLC	Project Name:	Jicarilla 95-7B Confirmation Sampling	Reported:
2010 Afton Place	Project Number:	12035-0159	-
Farmington NM, 87401	Project Manager:	Felipe Aragon	2/8/2021 12:52:14PM

Farmington NM, 87401		Project Manage	r: Fe	lipe Aragon				2/	8/2021 12:52:14PM
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2106030-BLK1)						Pre	pared: 02/0)4/21 Analy:	zed: 02/04/21
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	47.3		50.0		94.5	50-200			
LCS (2106030-BS1)						Pre	pared: 02/0	04/21 Analy	zed: 02/04/21
Diesel Range Organics (C10-C28)	487	25.0	500		97.5	38-132			
Surrogate: n-Nonane	46.7		50.0		93.3	50-200			
Matrix Spike (2106030-MS1)				Sou	rce: E102	008-04 Pre	pared: 02/0	04/21 Analy	zed: 02/04/21
Diesel Range Organics (C10-C28)	501	25.0	500	ND	100	38-132			
Surrogate: n-Nonane	46.0		50.0		92.1	50-200			
Matrix Spike Dup (2106030-MSD1)				Sou	rce: E102	008-04 Pre	pared: 02/0	04/21 Analy	zed: 02/04/21
Diesel Range Organics (C10-C28)	495	25.0	500	ND	99.0	38-132	1.21	20	
Surrogate: n-Nonane	47.9		50.0		95.7	50-200			



Chloride

QC Summary Data

Logos Operating, LLC 2010 Afton Place		Project Name: Jicarilla 95-7B Confirmation Sampling Project Number: 12035-0159						Reported:				
Farmington NM, 87401		Project Manager		Felipe Aragon					2/8/2021 12:52:14PM			
Anions by EPA 300.0/9056A Analyst: RAS												
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2106029-BLK1)						Pre	epared: 02/0	04/21 Ana	lyzed: 02/04/21			
Chloride	ND	20.0										
LCS (2106029-BS1)						Pre	epared: 02/0	04/21 Ana	lyzed: 02/04/21			
Chloride	249	20.0	250		99.7	90-110						
Matrix Spike (2106029-MS1)				Sou	rce: E102	007-01 Pre	epared: 02/0	04/21 Ana	lyzed: 02/04/21			
Chloride	253	20.0	250	ND	101	80-120						
Matrix Spike Dup (2106029-MSD1)				Sou	rce: E102	007-01 Pre	epared: 02/0	04/21 Ana	lyzed: 02/04/21			

250

20.0

101

80-120

0.158

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	
١	2010 Afton Place	Project Number:	12035-0159	Reported:
١	Farmington NM, 87401	Project Manager:	Felipe Aragon	02/08/21 12:52

S3 Surrogate spike recovery was outside acceptance limits. LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

Project I	nformatio	n				Chain d	of Custody								Page/			ige/_	of/	
Client: Lo	ogos	N/A				Report Attenti	Report Attention Lab l						ly	C URS	100	TA	TAT EPA Program			
Project: Jica	rilla 95-7B Co	nfirmation S	Sampling		<u> </u>	Report due by:	Lab WO# Job Number							1D 3D RCRA		RCRA	CWA SDWA			
Project N	Manager:	F.Arag	gon_		<u> E</u>	mail:		EI	00	200	50	12	035	-0159	9	Х				
Address:					. 4	Address:						Analys	is an	d Me	thod	1			Sta	ate
City, Stat	te, Zip					City, State, Zip													NM CO	UT AZ
Email: G	crabtree D	Carter Fa	aragon T	knight Bh	<u>all</u> <u>F</u>	hone:														
Cgreen I	garcia					· ·													×	
Time Sampled	Date Sampled	Matrix	No Containers	Sample II	D		Lab Number	8015	ORO	8021	τ̈								Ren	narks
13:12	2/3/2021	S	2			SC-01	1	х	х	х	х								c	ool
13:13	2/3/2021	S	2			SC-02	2	х	х	х	х								c	ool
13,21	2/3/2021	S	2			SC-03	3	х	х	х	х		10.310.11						c	ool
13:16	2/3/2021	S	2			SC-04	4	х	х	х	х								C	ool
(3),29	2/3/2021	S	2			SC-05	5	х	х	х	х								С	ool
(3,23	2/3/2021	S	2			SC-06	6	х	х	х	х								C	ool
13:18	2/3/2021	s	2			SC-07	7	х	х	х	х								C	ool
13:19	2/3/2021	S	2			SC-08	8	х	х	х	х								C	ool
Addition	nal Instruc	tions:		J.																
DELINE SECURE OF SECURE	er), attest to the	and the second of the second second				tampering with or intentionally mislabelli	ng the sample location,	date or	r time o	of collec	ction is	19							e the day they a Con subsequen	
Relinquished by: (Signature) Date Time 3		Time 3	Received by: (Signature)	2-4-21	Time 8:22			Received on ice:				Lab Use Only								
Relinquish	ed by: (Signa	ature)	Date	•	Time	Rećeived by: (Signature)	Date		Time			T1 AVG				T2		<u>T3</u>		-
Sample Ma	trix: S - Soil, S o	d - Solid, S g -	- Sludge, A	Aqueous, O	- Other		Containe	r Typ	e: g	glas	s, p -	poly/	plast	tic, ag	- am	nber (glass	, v - VOA		
						r arrangements are made. Hazardou								client e	expens	se. Th	e rep	ort for the	analysis of t	he above
samples is a	applicable only	y to those sa	amples rece	ived by the la	aboratory with	this COC. The liability of the labora	otry is limited to the	amou	ınt pai	id for c	on the	report	3							



5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.o boratory@envirotech-inc.o

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

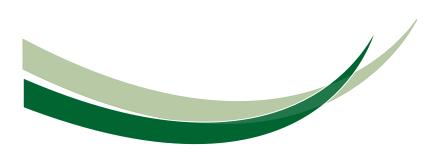
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Logos Operating, LLC	Date Received:	02/04/21 0	08:23	Work Order ID: E10)2008
Phone: (505)215-8215	Date Logged In:	02/04/21 0	9:45	Logged In By: Ale	exa Michaels
Email:	Due Date:		7:00 (1 day TAT)	266 5	
Chain of Custody (COC)					
1. Does the sample ID match the COC?		Yes			
 Does the number of samples per sampling site location 	on match the COC	Yes			
3. Were samples dropped off by client or carrier?		Yes	Carrier: D	amon Carter	
4. Was the COC complete, i.e., signatures, dates/times,	requested analyses?	Yes		minon cunto	
5. Were all samples received within holding time?		Yes			
Note: Analysis, such as pH which should be condu i.e, 15 minute hold time, are not included in this di			ſ	Comments/Re	<u>solution</u>
Sample Turn Around Time (TAT)				Email Falina Tami Graa	Drittony Issas
6. Did the COC indicate standard TAT, or Expedited TA	AT?	Yes		Email- Felipe, Tami, Greg,	Billiany, Isaac,
Sample Cooler				Clay, Damon	
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 Note: Thermal preservation is not required, if samp minutes of sampling 12. If no visible ice record the temperature. Actual see	ples are received w/i 15	Yes			
13. If no visible ice, record the temperature. Actual sa	ampie temperature. 4	<u> </u>			
Sample Container 14 Are agreemy VOC complex present?		N.T.			
14. Are aqueous VOC samples present?		No			
15. Are VOC samples collected in VOA Vials?	١٥.	NA			
16. Is the head space less than 6-8 mm (pea sized or less	s)?	NA			
17. Was a trip blank (TB) included for VOC analyses?		NA			
18. Are non-VOC samples collected in the correct conta		Yes			
19. Is the appropriate volume/weight or number of sample of	containers collected?	Yes			
Field Label	t C				
20. Were field sample labels filled out with the minimus Sample ID?	m information:	Yes			
Date/Time Collected?		Yes	l		
Collectors name?		Yes			
Sample Preservation					
21. Does the COC or field labels indicate the samples w	ere preserved?	No			
22. Are sample(s) correctly preserved?		NA			
24. Is lab filteration required and/or requested for dissol	lved metals?	No			
Multiphase Sample Matrix					
26. Does the sample have more than one phase, i.e., mu	ltiphase?	No			
27. If yes, does the COC specify which phase(s) is to be	_	NA			
Subcontract Laboratory					
28. Are samples required to get sent to a subcontract lab	ooratory?	No			
29. Was a subcontract laboratory specified by the client	•	NA	Subcontract Lab	: NA	
Client Instruction					
Email- Felipe, Tami, Greg, Brittany, Isaac, Clay, D	amon				
Signature of client authorizing changes to the COC or sam	nle disposition				envirotech I

Appendix E



Site Photography





Practical Solutions for a Better Tomorrow

Site Photography LOGOS Operating, LLC Jicarilla 95-7B Well Site



Site Area



Site Area: Spill December 17, 2020

Site Photography
Logos Operating, LLC.
Release Closure Report
Jicarilla 95-7B Well Site
Rio Arriba County, New Mexico
Project #12053-0162
February 2021

February 2, 2021



Picture 1: View of Base and West Wall



Picture 2: View of South Wall

Site Photography
Logos Operating, LLC.
Release Closure Report
Jicarilla 95-7B Well Site
Rio Arriba County, New Mexico
Project #12053-0162
February 2021



Picture 3: View of North Wall

February 3, 2021



Picture 4: View of Base

Site Photography
Logos Operating, LLC.
Release Closure Report
Jicarilla 95-7B Well Site
Rio Arriba County, New Mexico
Project #12053-0162
February 2021



Picture 5: View of North and East Walls and Spoil Pile



Picture 5: View of South and West Walls

Site Photography LOGOS Operating, LLC Jicarilla 95-7B Well Site



Site Area: Backfill February 11, 2021

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

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 22008

CONDITIONS

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	22008
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Accepted for record per JOGA approval. Release resolved.	2/8/2022