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 Telephone 505-419-8420
Contact email mflorez@logosresoucesllc.com	Incident # (assigned by OCD) nAPP2104354470
Contact mailing address 2010 Afton Place, Farmington NM 8740	1

Location of Release Source

Latitude

36.5320892

Longitude -107.0992355 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Jicarilla 95 7B	Site Type Well
Date Release Discovered 2/2/2021	API# (<i>if applicable</i>) 30-039-26854

Unit Letter	Section	Township	Range	County
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 Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
X Condensate	Volume Released (bbls) 1/4 bbls	Volume Recovered (bbls) 0
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

This release was 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, they was 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.

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If YES, for what reason(s) does the responsible party consider this a major release?
otice 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

 $\overline{\mathbf{X}}$ 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 dikes, absorbent pads, or other containment devices.

x 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: Marie E. Florez	Title: <u>Regulatory Specialist</u>
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 State of New Mexico					Page 3 of 70
Form C-141				Incident ID		
Page 4	Oil Conservation Division	l		District RP		
				Facility ID		
				Application ID		
regulations all operators a public health or the envir failed to adequately invest	-E.Florez	otifications and OCD does no reat to ground of responsibili 	d perform co ot relieve the lwater, surfac ty for compl	rrective actions for rele operator of liability shi ce water, human health iance with any other fee Specialist	eases which may er ould their operation or the environmen	ndanger ns have nt. In
OCD Only						
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Received by OCD: 3/25/2021 2:30:28 PM Form C-141 State of New Mexico

Oil Conservation Division

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Incident ID	nAPP2104354470
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>50 - 100</u> (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 🗶 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 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 🗴 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.
- X Field data
- X
 Data table of soil contaminant concentration data
- $\underline{\mathbf{x}}$ Depth to water determination
- x Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- XBoring or excavation logs
- X Photographs including date and GIS information
- X Topographic/Aerial maps
- x Laboratory data including chain of custody

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

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Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. X A scaled site and sampling diagram as described in 19.15.29.11 NMAC x 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) **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 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: Marie E. Florez Title: Regulatory Specialist Signature: Marie E. Florez Date: 3/24/2021 mflorez@logosresourcesllc.com Telephone: 505-419-8420 email: **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: <u>Jennifer Nobui</u> Date: <u>02/08/2022</u> 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:	Tamra Sessions; Powell, Brandon, EMNRD
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:	image001.jpg

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 | <u>Cory.Smith@state.nm.us</u> 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 <<u>Cory.Smith@state.nm.us</u>>
Sent: Wednesday, February 03, 2021 7:49 AM
To: Tamra Sessions <<u>tsessions@logosresourcesllc.com</u>>; Powell, Brandon, EMNRD
<<u>Brandon.Powell@state.nm.us</u>>
Cc: Marie Florez <<u>mflorez@logosresourcesllc.com</u>>; Bryan Lovato
<<u>blovato@logosresourcesllc.com</u>>; Jason Meechan <<u>jmeechan@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 | <u>Cory.Smith@state.nm.us</u> http://www.emnrd.state.nm.us/OCD/

From: Tamra Sessions <<u>tsessions@logosresourcesllc.com</u>>

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

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

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

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

<<u>blovato@logosresourcesllc.com</u>>; Jason Meechan <<u>jmeechan@logosresourcesllc.com</u>>; Keith Manwell-JIC EPO (<u>kcmanwell@yahoo.com</u>) <<u>kcmanwell@yahoo.com</u>>

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 Repeired 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 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

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

Page 9 of 70 Form C-138 Revised August 1, 2011

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

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
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, Tamma 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)
Image: CRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non- exempt waste. Image: Operator Use Only: Waste Acceptance Frequency Image: Monthly Image: 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.
Envirotech Inc. Sail Demodiction Equility
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: 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: <u>tsessions@logosresourcesllc.com</u>



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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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RELEASE CLOSURE ACTIVITIES 1
Laboratory Analytical Results2
RECLAMATION ACTIVITIES
SUMMARY AND CONCLUSIONS
STATEMENT OF LIMITATIONS

Figures:	Figure 1, Vicinity Map
	Figure 2, Site Map

Appendices: Appendix A, Siting Criteria Documentation Appendix B, Waste Disposal Documentation Appendix C, Field Notes with EPA 418.1 Field Screening Reports Appendix D, Laboratory Analytical Reports Appendix E, Site Photography



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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

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

The following closure criteria from 19.15.29.12 NMAC were applied:

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	VOC (ppm)	TPH (mg/kg)
		Description		
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**.



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.

Hall

Brittany Hall Environmental Field Technician bhall@envirotech-inc.com

Reviewed by:

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





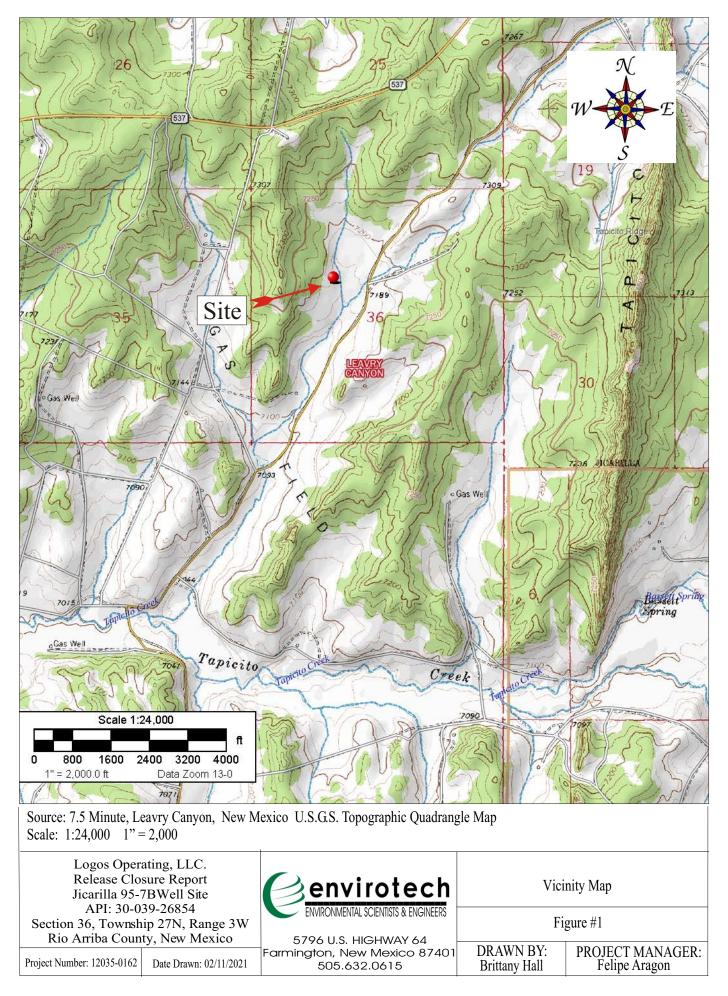


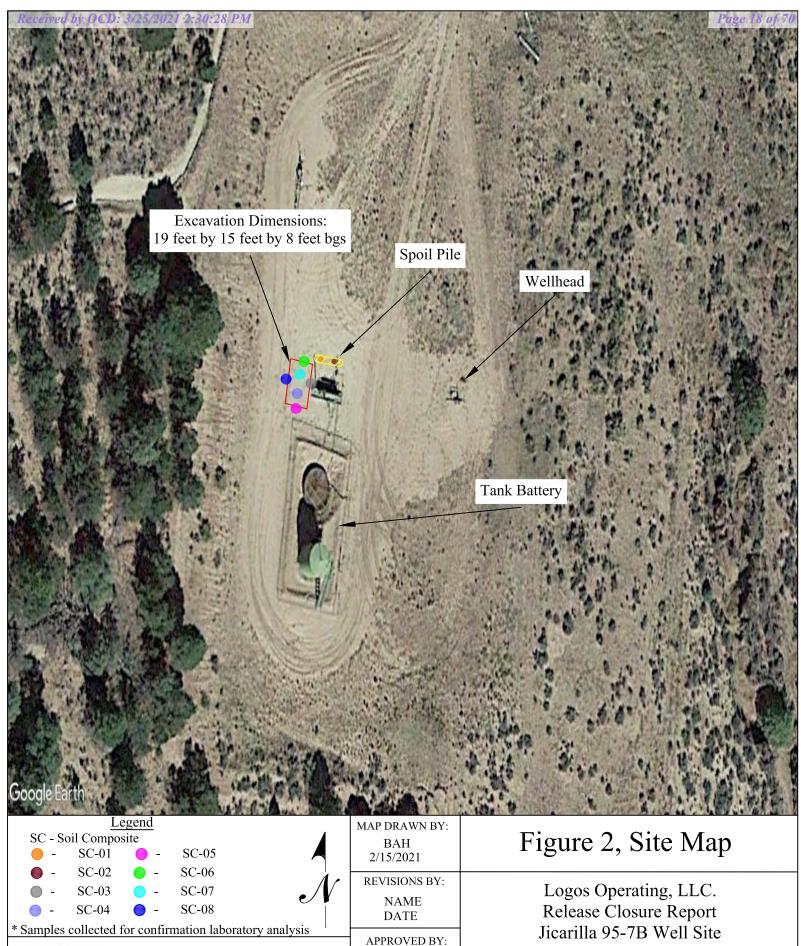
Figure 1, *Vicinity Map* Figure 2, *Site Map*





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





NAME DATE

Scale 1" = 35'

envirotech
Relewed to Hanging 62/8/2022 (12:00) 20 914 505-632-0615

Logos Operating, LLC. Release Closure Report Jicarilla 95-7B Well Site API: 30-039-26854 Section 36, Township 27N, Range 3W Rio Arriba County, New Mexico Project #12035-0162





Table 1, Summary of Soil Analytical Results





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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

	Date	Sample Depth	EPA	A Method 8	3015	EPA Meti	EPA Method 300.0	
Laboratory Sample ID			GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
NMOC (Ta		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







Siting Criteria Documentation





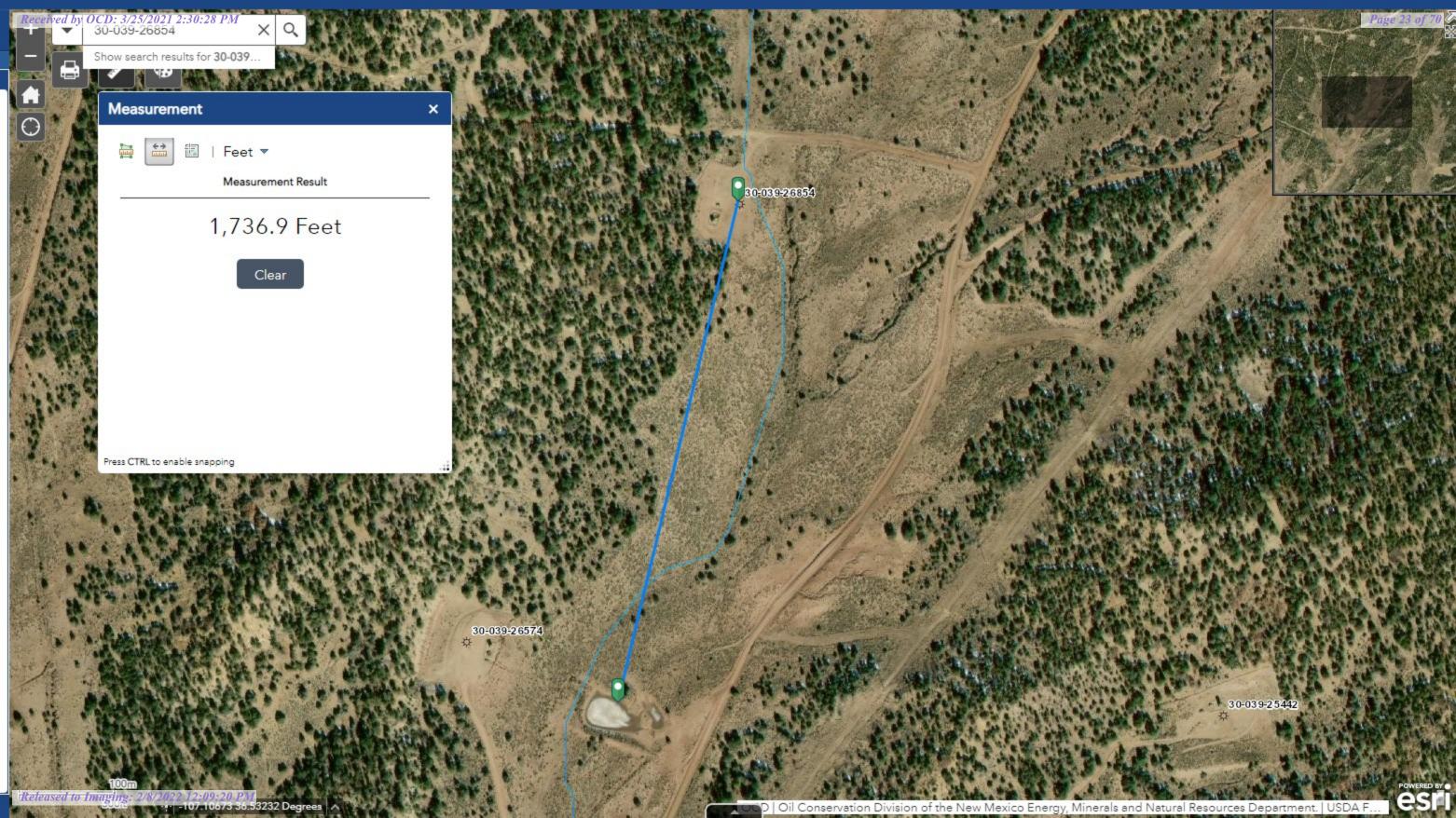
Practical Solutions for a Better Tomorrow

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Site Name: Jicarilla 95 7B								
API #:	30-039-26854	30-039-26854						
Lat/Long:	36.532089, -107.							
	Unit F Sec 36 T2							
Land Jurisdiction:								
	Rio Arriba							
Wellhead Protection Area Assessment			1	1				
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								
Elevation Differential	site elevation 7,191; Tap DTW estimated 50-100'		; due to known spr	ings in the area				
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 (mo	easured from the C	Drdinary High	n Water	No				
<300' of an occupied permanent residence, scho				No				
<500' of a spring or private/domestic water well	used by <5 house	holds for dor	nestic or					
stock watering purposes				No				
<1000' of any water well or spring				No				
Within incorporated municipal boundaries or wa	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								
Within a 100-year floodplain								
DTW Determination ≤50 ✓ 50-100 □ >100 □								
Benzene	10	10	10					
BTEX (mg/kg)	50	50	50					
8015 TPH (GRO/DRO) (mg/kg) Not Applicable 1,000 1,000								
8015 TPH (GRO/DRO/MRO) (mg/kg)	100	2,500	2,500					
Chlorides (mg/kg)	600	10,000	20,000					



Practical Solutions of a Better Tomorrow Released to Imaging: 2/8/2022 12:09:20 PM



Resaived by OCD: 3/25/2021 tais And Some Proxy?queryData=%7B"report"%3A"drillerLog"%2C%0A"BasinDiv"%3A"true"%2C%0A"BasinDiv"%3A"true"%2C%0A"BasinDiv



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

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.

No wells found.

2/10/21 12:21 PM

WELLS WITH WELL LOG INFORMATIO

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| Miles

Press CTRL to enable snapping

Measurement Result

9.45 Miles

Clear

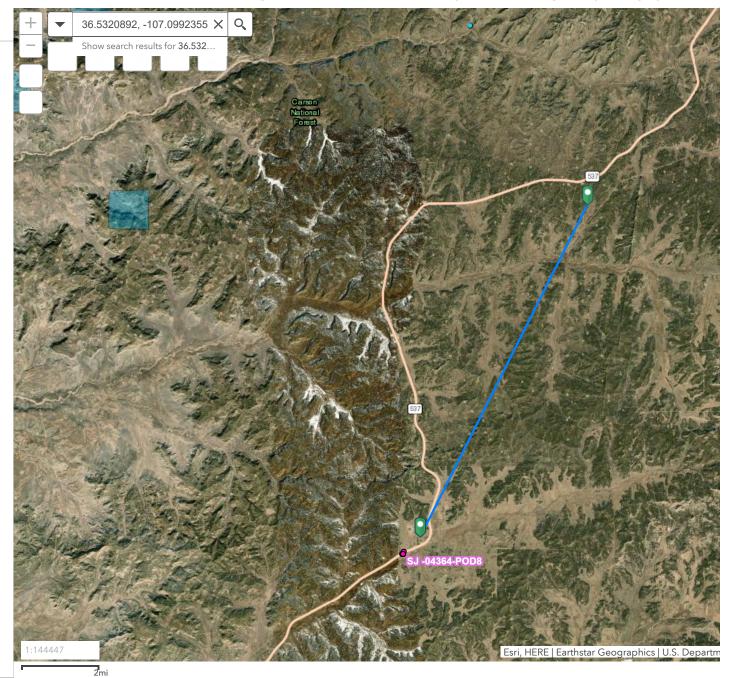
OSE POD Locations



Measurement

OSE POD Locations Points of Diversion visible at 1:19,000 with 1,000 features per view

Drought Tracker Online Meter Report Water Right Reporting System



-106.988 36.604 Degrees

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OSE POD Locations



Legend

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Status

GIS WATERS PODs

Active 0 0

Pending

Capped

Plugged

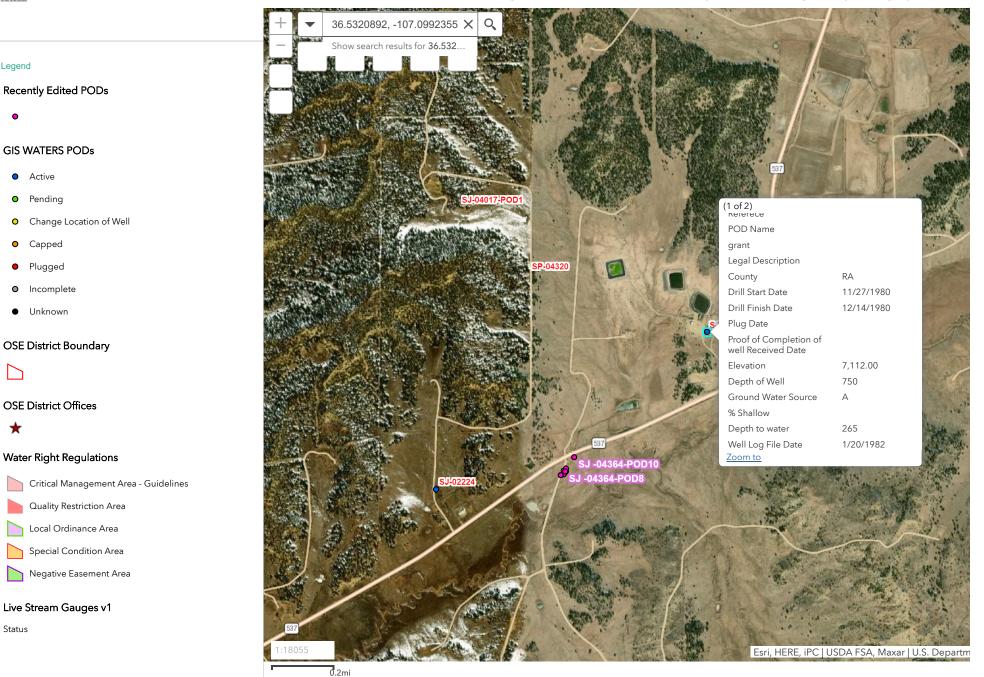
Incomplete

Unknown

OSE District Offices

OSE POD Locations Points of Diversion visible at 1:19,000 with 1,000 features per view

Drought Tracker Online Meter Report Water Right Reporting System



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Waste Disposal Documentation





Practical Solutions for a Better Tomorrow

Page 28 of 70				FARMING	Bill of Lading PC TF INGTON, NEW MEXICO 87401			GENERA POINT (TRANSF	MANIFEST # 68093 GENERATOR <u>COGOS</u> POINT OF ORIGIN <u>Jic</u> 95.78 TRANSPORTER <u>Kelley oil Field</u> DATE O1-29.21 JOB # 12035-0155			
	LOAD NO.	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	TKT#	TRANSPC	RTING COMP	DRIVER SIGNATURE	
		LF#5	Con'tSO.2	A23	10				5105	1630	Ementholat	
I												
OCD: 3/25/2021 2:30:28 PM	RESULT -297 ρ455	S CHLORIDE TEST CHLORIDE TEST CHLORIDE TEST PAINT FILTER TEST	LANDFARM EMPLOYEE	iver/transpo is from the	ekend Receiva orter, I certif above ment	y the mater ioned Gene	Dut Duash Ou ial hauled fro rator/Point o	om the above f Origin and	location has r	nal material h	ed to or tampered with. I as been added or mixed ccordingly.	
6		or Onsite Contact	ribution of the legal docu	iment. D	ISTRIBUTION:	White - Com	pany Records,	Yellow - Billing,	Phon Pink - Customer,		F Copy SAN JUAN PRINTING 021971E	

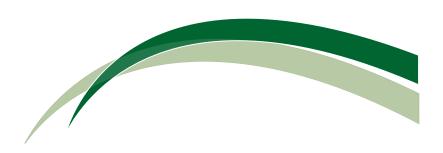
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7.0.	and the second se	otech		воl# <u>68093</u>		
	CHL	ORIDE TEST	ING / P	AINT FILTER TE	STING	
	DATE 01.2	29-21	TIME	1630	Attach test strip here	
	CUSTOMER	10905			Qî	
	SITE	Jie 95	7,2	5	U A Z A A	
	DRIVER	Empl	where	k	B	
	SAMPLE	Soji) Straight	\sim	With Dirt	8	
	CHLORIDE TEST	-299 mg/k	(g		7	
	ACCEPTED	YES	_	NO	6	
	PAINT FILTER TEST	Time started63	0	Time completed 1640	<u>a</u>	
	PASS	YES		NO	3	
	SAMPLER/ANALYST	- Gay Ro	binso	2		
	5796 US Hwy 64, Farmington, N	IM 87401 Ph (505) 632-0615 Fr	(800) 362-1879	Fx (505) 632-1865 info@envirotech-inc.	.com envirotech-inc.com	

C		5796 U.S. HIGHWAY 64					PC TR	ANSPORTER	IN Jie Ka	HRILLA ELLEYS	95 - 7B OILFIELD 12035-0155
LOAD		COMPLETE DESCRIPT				5 87401	DA			TING COMP	
NO.	DESTINATION	MATERIAL	GRID	YDS	BBLS	DRUMS	ТК			TIME	DRIVER SIGNATURE
١	LFII5	CONT SOIL	C23	20	-	(- 510	5	1405	Norbell
				20							
					0						
RESULT	1 1	LANDFARM EMPLOYEE	1	1		Gv	we	NOTES			
1299	CHLORIDE TEST CHLORIDE TEST	Soil w/ Debris Af	tor Hour ANO	111		Dut DWach ()t				
	CHLORIDE TEST				•			above location	has not	been adde	d to or tampered with.
PASS	PAINT FILTER TEST		is from the	above ment	tioned Gene	erator/Point	of Origin	n and that no ad	dditional	material ha	as been added or mixe
Generati	or Onsite Contact			na na sa katala kata				-	Phone		
		listribution of the legal doc	ument. c	ISTRIBUTION:	White - Con	npany Records,	Yellow -	Billing, Pink - Cu		Goldenrod - LF	Copy San Juan Printing 02197

Benvir	otech	BOL#	8115	
CHL	ORIDE TESTIN	IG / PAINT F	ILTER TES	TING
DATE 2/3/	211	тіме 140	15	Attach test strip here
CUSTOMER	Logos			GUAZ
SITE	JICHRILLA 95	-76		
DRIVER	x Em The	lad		
SAMPLE	Soil Straight	With Dirt		8
CHLORIDE TEST	-299 mg/Kg			6-
ACCEPTED	YES	NO		5
PAINT FILTER TEST	Time started 1605	Time compl	eted 1610	3
PASS	YES	NO		-2
SAMPLER/ANALYS		1 AN		1-

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





Field Notes with EPA 418.1 Field Screening Reports





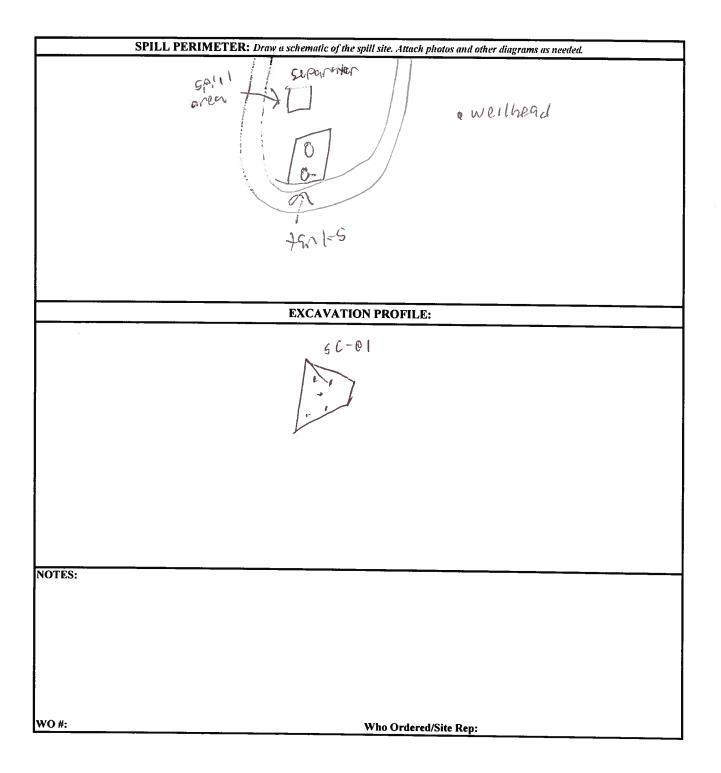
Practical Solutions for a Better Tomorrow

Field Report: Spill Closure Verification LOCATION: Name: State: Name: Nam
START DATE: 36.5320892 FINISH DATE: Page # of Field Report: Spill Closure Verification LAT 36.5320892 County: Field Report: Spill Closure Verification LOCATION: Name: 3.0972639 County: $Rio Arriba State: Material Released: Cause of Release: Material Released: Amt. Released: $
FINISH DATE: Page # of Field Report: Spill Closure Verification LOCATION: Name: $3 \sqrt{(q \wedge y)} q \sqrt{q} \sqrt{(q \wedge y)} q \sqrt{q} \sqrt{(q \wedge y)} q $
Page # of
Field Report: Spill Closure Verification LOCATION: Name: State: Name: Nam
LOCATION: Name: Image: County:
County: <u>Rive Annibe</u> Cause of Release: <u>Material Released</u> : <u>Amt. Released</u> :
Cause of Release: Material Released: Amt. Released:
OUAD/(D) (T_{1}) (T_{2}) $(T_{2$
QUAD/UNIT: SEC: 36 TWP: $27N$ RNG: $3V$ PM:
Spill Located Approximately: 70 FT. FROM WILLING
Excavation Approx: 10 FT. X 15 FT. X 5 FT. Cubic Yardage: 2.7
Disposal Facility:
Land Use: 10 Cin the Land Owner: J. Con Clark
REGULATORY AGENCY: Spite Tillin, 110. TPH CLOSURE STD: 106 PPM
ADDITIONAL CLOSURE REQUIREMENTS:
FIELD 418.1 / PID ANLAYSIS
LABORAT
SAMPLE NAME SAMPLE DESCRIPTION / NOTE TIME READING CALC. ppm PID/OV TIME ANALY
3 C-01 Base 10:34 50 236 10,6 16:48
NOTES:
CS-COMPOSITE SAMPLE
GS-GRAB SAMPLE SB-SOIL BORING
TP-TEST PIT
DU- DECISION UNIT
ST-STATION

Page 1 Of _____

7/31/2020

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CLIENT:	10905					Envmtl. Spclst: DC			
CLIENT/JOB #:	12039-0102	C,	onvi	rotec	•h	C.O.C. No	•		
START DATE:	2/2/21	envirotech				LAT 36,5320492			
FINISH DATE:		6784 U.S. Hwy 84, Farmington, NM 87491			M 87481	LONG	-107.09	V	
Page #	of	-							
			and the second se	osure Ver	rification				
LOCATION:	Name: Jican		95	Well #:	78		API: 30	0-039-269	
	County: $R^{\iota 0}$	Anni ha	<u> </u>	State:	New N	exi (0	_		
Cause of Release:		2/	_Material R				Amt. Release	ed:	
QUAD/UNIT:		36 TWP: 27N					PM:	PM:	
	simately: <u>76</u>			FROM				0	
Disposal Facility:	<u> </u>	19	_FT. X	7	_FT.	Cubic Yard	lage:	~ 84	
· · ·	ixton		-				er: Tica,	0/110	
REGULATORY AG		tran 1110			TRUCIO				
	SURE REQUIREMENTS:		ι <u> </u>		IFRCLO	SURE STD:			
		A CONTRACTOR OF A	D 418.1 / P	ID ANLAY	SIS				
					T	1	Ι	LABORATO	
SAMPLE NAME	SAMPLE DESCRIPTIO	N / NOTE	TIME		CALC. ppm	PID/OV	TIME	ANALYSIS	
	200 Std		12:07	199	752		ACC R		
500 St			12:05	496	1964	-			
56- 01	1250 Std		12:09	1239	124				
50-02	Composite 1 Base		12.91			1.1	12:24	— <u> </u>	
56-07	wails 1		12:54	40	160	1,6	13:02		
0000	200 570		13:08	41	164	6.2	13:04		
	500 5td		13:10	492	1928				
	1290 5td		13:12	1149	4592				
st-oyoc	Base i		13:30		112	<u> </u>			
56-03	Walls 1		13:34	32	129		7		
96-04	Wa(15 2		14143		328	5.3	14:55		
56-05	Base 2		14146		320	1.3	14:57		
95-01	Background		15:04	and the second se	328	0.0	15:15		
	DUCCITORIO		NOT			0.0	15:15		
CS-COMPOSITE SAMPLE GS-GRAB SAMPLE SB-SOIL BORING TP-TEST PIT DU- DECISION UNIT ST-STATION	Jason wi on field 5	ith lo creent	1905 u Ing be	va Ats Fare	TPH	lg in	Simp;	00 (08 es.	

7/31/2020

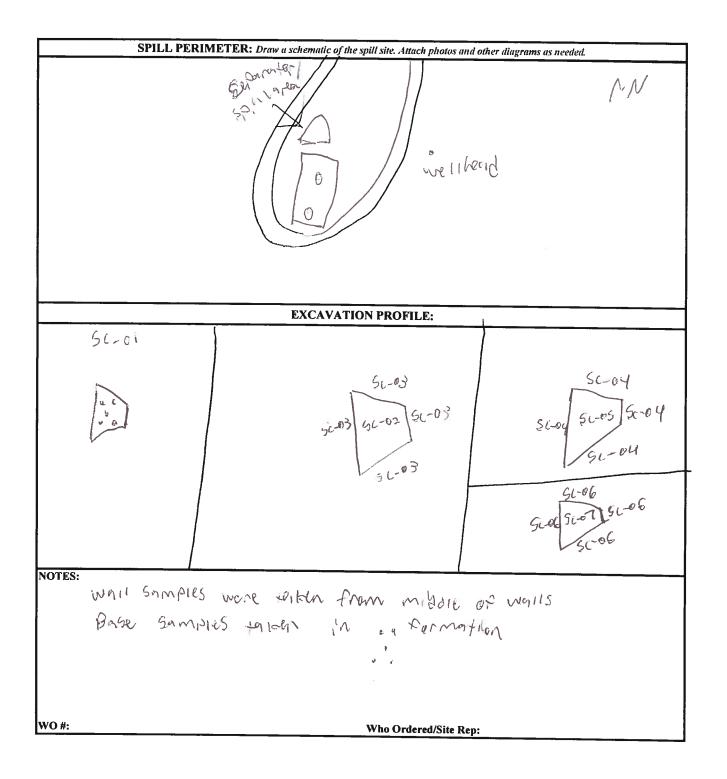
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CLIENT:					Envmtl. Spclst:						
CLIENT/JOB #:		— <i>C</i> envirotech					C.O.C. No:				
START DATE:			(808) 632-0618 (800) 862-1870 5786 U.S. Hwy 64, Farmington, NM 87461				LAT				
FINISH DATE:											
Page #	of										
		ld Report:			ification						
LOCATION:	Name:			Well #:		API:					
	County:			State:							
Cause of Release:			Material Released:			Amt. Released:					
QUAD/UNIT:	SEC:		TWP:		RNG:	_	PM:				
Spill Located Approx	cimately:	FT.		FROM							
Excavation Approx:	FT. X		FT. X	_	FT.	Cubic Yard	lage:				
Disposal Facility:			_ ·		-		-				
Land Use:						Land Owne					
REGULATORY AG	ENCY:				TPH CLOS	SURE STD:		· · · · · · · · · · · · · · · · · · ·			
ADDITIONAL CLO	SURE REQUIREMENT	S:									
		FIEL	D 418.1 / P	ID ANLAY	SIS	ningen se en en					
								LABORATORY			
SAMPLE NAME	SAMPLE DESCRIPT	ION / NOTE	TIME	READING			TIME	ANALYSIS			
Sc -06	wall 5 3		15:54	99	352	0,0	16:06				
56-07	Bage 3		15:56	83	332	0.6	16:10				
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SB-SOIL BORING											
TP-TEST PIT											
DU- DECISION UNIT											
ST-STATION											

Page #Of_3

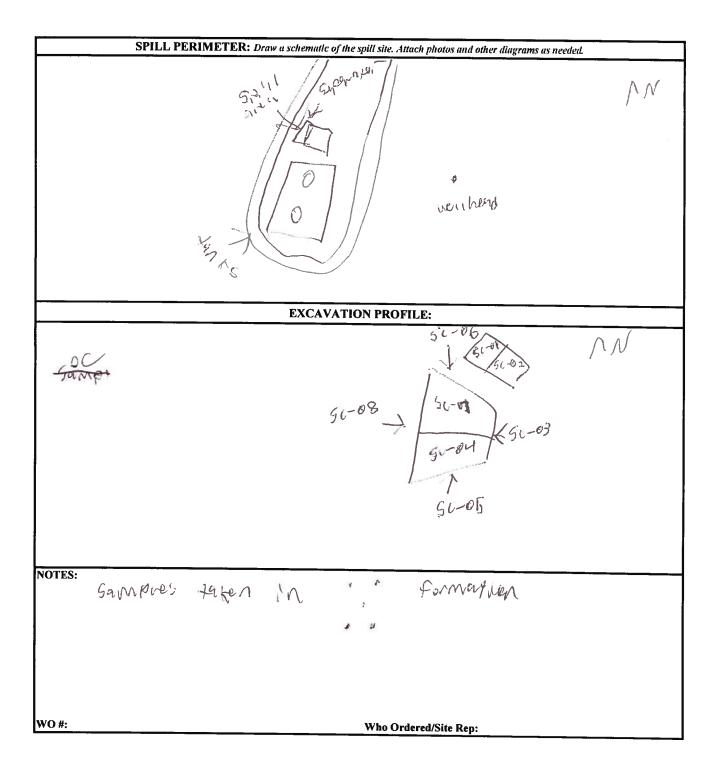
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CLIENT:	LOGOS OFERNALING					Envmtl. S	oclst:	DC
CLIENT/JOB #:	12015-0162	-	nvi	rotor	. h	C.O.C. No		
START DATE:	2/3/21	Be		rotec		LAT		0 992
FINISH DATE:		(898) 8786 U.S	632-061 . Hwy 64	8 (899) 863- , Furmington, N				
1						LONG	-102,09	12335
Page #	of	d Domonte Cr		a muna Mar	:6	Contractore All Sciences		Provide and the second
LOCATION:		d Report: Sp				1	A DL	14 (170 (0())
LOCATION.		1 -					- 20	34-039-2686
Constant In 1		Arriba			/V	w mer		/
Cause of Release:		Ma					Amt. Release	
QUAD/UNIT:		36	TWP:	27N		B: 3W	PM:	
Spill Located Approx	·			FROM		e it h las		
	<u>15</u> FT. X	FT	. X	<u> </u>	_FT.	Cubic Yard	lage:	m 84
Disposal Facility:								
Land Use:		$f_{\mathbf{x}}$				Land Owne	r: T/09	1,110
REGULATORY AG	ENCY: 57974	Jignil	19	-	TPH CLO	OSURE STD	-	
ADDITIONAL CLO	SURE REQUIREMENTS							
		FIELD 4	18.1 / F	ID ANLAY	SIS			
								LABORATORY
SAMPLENAME Scrol	SAMPLE DESCRIPTIC	A	TIME	READING	CALC, pp		TIME	ANALYSIS
GC-02	000000000	1 pile	-+		╎╎	0,3	13,35	2
	that good	p, it	\rightarrow		\vdash	0,0	13:36	V
50-03	East No	÷				0,0	13:37	U,
56-04	Southesin	base				O, O	13:38	
50-05	30 ythenn 1	NGU				O Ø	13:79	
56-06	North , va	, l				0_0	13:40	i
50-02	Northern	base				0,0	13:41	\checkmark
50-08	western v	NP11				0.0	13:42	
			•		<u> </u>			
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CS-COMPOSITE 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	
- ardineter	iiig/E	iiig/E	
ТРН	100 200 500 1000 5000	188	

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

tany Hall for

Analyst

Damon Ca	arter	
Print Name	1	
-(e	to frag-	-
Review		

Felipe Aragon,	CES, CHMM
Print Name	

2/23/2021

Date

ale

2/23/2021

Date



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Logos Operating, LLC	Project #:	12035-016
Sample No.:	1	Date Reported:	2/23/2021
Sample ID:	SC-01	Date Sampled:	2/1/2021
Sample Matrix:	Soil	Date Analyzed:	2/1/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

		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.

an for

Analyst

Review

Felipe Aragon, CES, CHMM Printed



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Logos Operating, LLC	Project #:	12035-016
Sample No.:	1	Date Reported:	2/23/2021
Sample ID:	SC-06	Date Sampled:	2/3/2021
Sample Matrix:	Soil	Date Analyzed:	2/3/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

		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.

for

Analyst

elija Review

Felipe Aragon, CES, CHMM Printed

Damon Carter Printed



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Logos Operating, LLC	Project #:	12035-016
Sample No.:	2	Date Reported:	2/23/2021
Sample ID:	SC-07	Date Sampled:	2/3/2021
Sample Matrix:	Soil	Date Analyzed:	2/3/2021
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

		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.

any for

Analyst

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Laboratory Analytical Report





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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: Work Order:	Jicarilla 95-7B Confirmation Sampling 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



Page 46 of 70

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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Chain of Custody etc.	18

Sample Summary

		Sample Sum	mary		
Logos Operating, LLC 2010 Afton Place		Project Name: Project Number:	Jicarilla 95-7B Cor 12035-0159	nfirmation Samp	ling Reported:
Farmington NM, 87401		Project Manager:	Felipe Aragon		02/08/21 12:52
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C-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.
C-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.
C-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.
C-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.
C-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.
C-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.
C-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.
C-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.



		imple D					
Logos Operating, LLC	Project Name:		rilla 95-7B 35-0159	Confirm	nation Sampling		
2010 Afton Place	Project Numbe Project Manage	Reported:					
Farmington NM, 87401	2/8/2021 12:52:14PM						
		SC-01					
]	E102008-01					
		Reporting					
Analyte	Result	Limit	Dil	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	
o,m-Xylene	ND	0.0500		1	02/04/21	02/05/21	
p-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		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		Analyst:	Л		Batch: 2106030
Diesel Range Organics (C10-C28)	ND	25.0		1	02/04/21	02/04/21	
Dil 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		Analyst:	RAS		Batch: 2106029
Chloride	ND	20.0		1	02/04/21	02/04/21	

Sample Data



Sample Data

		*					
Logos Operating, LLC	Project Name			Confirma	ation Sampling		
2010 Afton Place	Project Numb		35-0159				Reported:
Farmington NM, 87401	Project Mana	ger: Felij	pe Aragon				2/8/2021 12:52:14PM
		SC-02					
		E102008-02					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		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	1	02/04/21	02/05/21	
o-Xylene	ND	0.0250	1	1	02/04/21	02/05/21	
Total Xylenes	ND	0.0250	1	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		Analyst: I	Y		Batch: 2106027
Gasoline Range Organics (C6-C10)	ND	20.0	1	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		Analyst: J	L		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		103 %	50-200		02/04/21	02/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: I	RAS		Batch: 2106029
Chloride	ND	20.0	1	1	02/04/21	02/04/21	



Sample Data

		I					
Logos Operating, LLC	Project Name	: Jica	rilla 95-7B	Confirm	nation Sampling		
2010 Afton Place	Project Numb	ber: 1203	35-0159				Reported:
Farmington NM, 87401	Project Manag	ger: Felij	pe Aragon				2/8/2021 12:52:14PM
		SC-03					
		E102008-03					
		Reporting					
Analyte	Result	Limit	Dil	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		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	



Sample Data

		1 -				
Logos Operating, LLC	Project Name	: Jica	rilla 95-7B (Confirmation San	npling	
2010 Afton Place	Project Numb	ber: 1203	Reported:			
Farmington NM, 87401	Project Mana	2/8/2021 12:52:14PM				
		SC-04				
		E102008-04				
		Reporting				
Analyte	Result	Limit	Dilu	tion Prepare	ed Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY		Batch: 2106027
Benzene	ND	0.0250	1	02/04/2	02/05/21	
Toluene	ND	0.0250	1	02/04/2	02/05/21	
Ethylbenzene	ND	0.0250	1	02/04/2	02/05/21	
p,m-Xylene	ND	0.0500	1	02/04/2	02/05/21	
o-Xylene	ND	0.0250	1	02/04/2	02/05/21	
Total Xylenes	ND	0.0250	1	02/04/2	.1 02/05/21	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	02/04/2	02/05/21	
Surrogate: Toluene-d8		97.1 %	70-130	02/04/2	02/05/21	
Surrogate: Bromofluorobenzene		92.2 %	70-130	02/04/2	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	02/04/2	02/05/21	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	02/04/2	21 02/05/21	
Surrogate: Toluene-d8		97.1 %	70-130	02/04/2	02/05/21	
Surrogate: Bromofluorobenzene		92.2 %	70-130	02/04/2	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	02/04/2	.1 02/04/21	
Oil Range Organics (C28-C35)	ND	50.0	1	02/04/2	.1 02/04/21	
Surrogate: n-Nonane		101 %	50-200	02/04/2	02/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: RAS		Batch: 2106029
Chloride	ND	20.0	1	02/04/2	02/05/21	



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Sample Data

	~	ampic D					
Logos Operating, LLC	Project Name:			Confirn	nation Sampling		
2010 Afton Place	Project Numb		35-0159	Reported:			
Farmington NM, 87401	Project Manag	ger: Felij	pe Aragon				2/8/2021 12:52:14PM
		SC-05					
		E102008-05					
		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	
p-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		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:	Л		Batch: 2106030
Diesel Range Organics (C10-C28)	ND	25.0		1	02/04/21	02/04/21	
Dil 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
Chloride	ND	20.0		1	02/04/21	02/05/21	

Sample Data

		impic D				
Logos Operating, LLC	Project Name:	Jica	rilla 95-7B Co	onfirmation Sampling	;	
2010 Afton Place	Project Number	er: 1203	35-0159			Reported:
Farmington NM, 87401	Project Manag	er: Felij	be Aragon			2/8/2021 12:52:14PM
		SC-06				
		E102008-06				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ar	nalyst: 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		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	Ar	nalyst: IY		Batch: 2106027
Gasoline Range Organics (C6-C10)	ND	20.0	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	Ar	nalyst: 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		99.1 %	50-200	02/04/21	02/04/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: RAS		Batch: 2106029
Chloride	ND	20.0	1	02/04/21	02/05/21	

Sample Data

		<u> </u>								
Logos Operating, LLC	Project Name:	Jica	rilla 95-7B Con	firmation Sampling						
2010 Afton Place	Project Numb	oject Number: 12035-0159								
Farmington NM, 87401	ington NM, 87401 Project Manager: Felipe Aragon									
		SC-07								
		E102008-07								
		Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes				
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ana	lyst: 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	Anal	lyst: 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	Ana	lyst: 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	Anal	lyst: RAS		Batch: 2106029				
Chloride	ND	20.0	1	02/04/21	02/05/21					



Sample Data

		ample D					
Logos Operating, LLC	Project Name:			Confirm	nation Sampling		
2010 Afton Place	Project Number		35-0159 be Aragon	Reported:			
Farmington NM, 87401	Project Manag	2/8/2021 12:52:14PM					
		SC-08					
		E102008-08					
		Reporting					
Analyte	Result	Limit	Dil	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	
o,m-Xylene	ND	0.0500		1	02/04/21	02/05/21	
p-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		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	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:	JL		Batch: 2106030
Diesel Range Organics (C10-C28)	ND	25.0		1	02/04/21	02/04/21	
Dil Range Organics (C28-C35)	ND	50.0		1	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
Chloride	ND	20.0		1	02/04/21	02/05/21	



QC Summary Data

Logos Operating LLC		Duoin at No.	Ea	parilla 05 7D	Confirmet	ion Samulia	.		
Logos Operating, LLC		Project Name:		arilla 95-7B	commati	ion sampling	ŝ		Reported:
2010 Afton Place		Project Number:		035-0159					
Farmington NM, 87401		Project Manager:	Fe	lipe Aragon				2/8	8/2021 12:52:14PM
	Y	Volatile Organic	Compou	unds by El	PA 82601	В			Analyst: IY
Analyte		Reporting	Spike	Source		Rec		RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2106027-BLK1)						Pre	pared: 02/0)4/21 Analyz	red: 02/04/21
Benzene	ND	0.0250							
Foluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
-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: Bromofluorobenzene	0.493		0.500		98.5	70-130			
LCS (2106027-BS1)						Pre	pared: 02/0	04/21 Analyz	ed: 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			
o,m-Xylene	4.69	0.0500	5.00		93.9	70-130			
p-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		0.500		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	04/21 Analyz	ed: 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			
-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			\$3
Matrix Spike Dup (2106027-MSD1)				Sou	rce: E102(007-01 Pre	pared: 02/0	04/21 Analyz	red: 02/04/21
Benzene	2.36	0.0250	2.50	ND	94.6	48-131	6.11	23	
Foluene	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	
,m-Xylene	4.67	0.0500	5.00	ND	93.3	43-135	2.99	27	
-Xylene	2.36	0.0250	2.50	ND	94.4	43-135	2.53	27	
Fotal Xylenes	7.03	0.0250	7.50	ND	93.7	43-135	2.83	27	
iotal Aylenes									
Surrogate: 1,2-Dichloroethane-d4	0.523		0.500		105	70-130			
	0.523 0.510		0.500 0.500		105 102	70-130 70-130			



QC Summary Data

		Q U U		ary Data	•				
Logos Operating, LLC 2010 Afton Place Farmington NM, 87401		Project Name: Project Number: Project Manager:	1	icarilla 95-7B C 2035-0159 elipe Aragon	Confirmat	ion Samplin	g		Reported: 2/8/2021 12:52:14PM
	No	onhalogenated O	rganics	by EPA 801	5D - 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	04/21 Ana	ulyzed: 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 Ana	alyzed: 02/04/21
Gasoline Range Organics (C6-C10)	50.8	20.0	50.0		102	70-130			
Surrogate: 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)				Sour	ce: E102	007-01 Pre	pared: 02/0	04/21 Ana	alyzed: 02/04/21
Gasoline Range Organics (C6-C10)	91.7	20.0	50.0	46.1	91.2	70-130			
Surrogate: 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)				Sour	ce: E102	007-01 Pre	pared: 02/0	04/21 Ana	ulyzed: 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			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.868		0.500		174	70-130			S3

QC Summary Data

		QC D	umm	aly Data	a				
Logos Operating, LLC 2010 Afton Place Farmington NM, 87401		Project Name: Project Number: Project Manager:		licarilla 95-7B (12035-0159 Felipe Aragon	Confirmat	ion Samplin	g		Reported: 2/8/2021 12:52:14PM
	Nonh	alogenated Org		1 0) - 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	04/21 Ana	alyzed: 02/04/21
Diesel Range Organics (C10-C28)	ND	25.0							
Oil 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 Ana	alyzed: 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)				Sour	rce: E102	008-04 Pre	pared: 02/0	04/21 Ana	alyzed: 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)				Sour	rce: E102	008-04 Pre	pared: 02/0	04/21 Ana	alyzed: 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			



QC Summary Data

		$\mathbf{x} \in \mathbf{z}$							
Logos Operating, LLC 2010 Afton Place Farmington NM, 87401		Project Name: Project Number: Project Manager:		Jicarilla 95-7B (12035-0159 Felipe Aragon	Confirmati	on Sampling	g		Reported: 2/8/2021 12:52:14PM
		Anions	by EPA	300.0/9056A	1				Analyst: RAS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2106029-BLK1)	ND	20.0				Pre	pared: 02/(04/21 Anal	yzed: 02/04/21
LCS (2106029-BS1)	nb	20.0				Pre	pared: 02/(04/21 Anal	yzed: 02/04/21
Chloride	249	20.0	250		99.7	90-110			
Matrix Spike (2106029-MS1)				Sou	rce: E102(007-01 Pre	pared: 02/0	04/21 Anal	yzed: 02/04/21
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2106029-MSD1)				Sou	rce: E1020	007-01 Pre	pared: 02/0	04/21 Anal	yzed: 02/04/21
Chloride	254	20.0	250	ND	101	80-120	0.158	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

ſ	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	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.



roject l	nformatio	n		12.		Chain of C	Custody									Pa	age 🦯	of
lient: Lo	ogos	141.00				Report Attention		1		La	b Us	e Only	0		TAT	EF	PA Progra	
	rilla 95-7B Co				hang	Report due by:		Lab	WO	#	~	Job Nu		100 B) 3D	RCRA	CWA	SDWA
	Aanager:	F.Arag	<u>gon</u>			Email:		EI	02	X			35-0159		<			
ddress:						Address:					1	Analysis	and Met	hod			NACESSING STREET	ate
ity, Stat		:				City, State, Zip											NM CO	UT AZ
		ocarter Fa	aragon T	knight Bha	<u>all</u>	Phone:												
green l	garcia																×	
Time ampled	Date Sampled	Matrix	No Containers	Sample ID	l.		Lab Number	8015	ORO	8021	ċ						Rem	narks
3:12	2/3/2021	S	2			SC-01		x	x	x	x						c	ool
3:13	2/3/2021	S	2			SC-02	2	x	x	x	x						c	ool
3:21	2/3/2021	s	2			SC-03	3	x	x	x	х						c	ool
3:16	2/3/2021	s	2			SC-04	4	x	x	x	x						c	ool
3129	2/3/2021	S	2			SC-05	5	x	x	x	x						c	ool
3:23	2/3/2021	S	2			SC-06	6	х	x	x	x						Co	ool
3:18	2/3/2021	S	2			SC-07	キ	х	x	x	х						Co	ool
3:19	2/3/2021	S	2			SC-08	8	х	x	x	х						Co	ool
ddition	al Instruc	tions:																
CONTRACTOR CONTRACTOR CONTRACTOR	ser age of the series of the s	a contraction of the second	free all a second a second free	f this sample. I ampled by:Dame		nat tampering with or intentionally mislabelling t	he sample location,	date or	r time c	of colled	ction is	16 A				be received on ic but less than 6°	전 - 26 - 26 - 26 - 27 - 27 - 27 - 27 - 27	
1	ed by: (Signa & MW)		Date	MA	rime 3,~	3 Received by: (Signature)	Date 2-4-21		Time	22		Receiv	ed on ic		Lab Us	se Only N		
	ed by: (Signa		Date	1	Гіте	Rećeived by: (Signature)	Date		Time			T1 AVG Te		<u></u> <u>T2</u>			<u>T3</u>	
mple Mat	rix: S - Soil, Sc	I - Solid, Sg	- Sludge, A -	Aqueous, O -	Other		Containe	r Typ	e: g	- glas				- amb	er glas	s, v - VOA		
						her arrangements are made. Hazardous sa ith this COC. The liability of the laboraotr							ne client e	kpense.	. The re	port for the	analysis of t	he above
5			-														Service Street Service	
3				ech		5796 US Highway 64, Farmington	, NM 87401				Ph (605) 632-0615	Fx (505) 632	-1865				envirotech-inc

laboratory@envirotech-inc. 20

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

lient:	Logos Operating, LLC	Date Received:	02/04/21 08	:23	Work Order ID: E102008
Phone:	(505)215-8215	Date Logged In:	02/04/21 09	:45	Logged In By: Alexa Michaels
Email:		Due Date:	02/05/21 17	:00 (1 day TAT)	
Chain of	<u>f Custody (COC)</u>				
1. Does t	the sample ID match the COC?		Yes		
2. Does t	the number of samples per sampling site location mat	ch the COC	Yes		
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: D	Damon Carter
4. Was th	he COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes		
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted ir i.e, 15 minute hold time, are not included in this disucssio		Yes		Comments/Resolution
Sample '	<u>Turn Around Time (TAT)</u>				
	e COC indicate standard TAT, or Expedited TAT?		Yes		Email- Felipe, Tami, Greg, Brittany, Isaac,
Sample (<u>Cooler</u>				Clay, Damon
7. Was a	sample cooler received?		Yes		
8. If yes,	, was cooler received in good condition?		Yes		
9. Was th	he sample(s) received intact, i.e., not broken?		Yes		
10. Were	e custody/security seals present?		No		
11. If yes	s, were custody/security seals intact?		NA		
	he sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling	e received w/i 15	Yes		
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°	<u>C</u>		
	<u>Container</u>				
	aqueous VOC samples present?		No		
	VOC samples collected in VOA Vials?		NA		
	e head space less than 6-8 mm (pea sized or less)?		NA NA		
	a trip blank (TB) included for VOC analyses?	3			
	non-VOC samples collected in the correct containers? appropriate volume/weight or number of sample contair		Yes Yes		
Field La		lers conected?	105		
-	e field sample labels filled out with the minimum info	rmation			
	Sample ID?	amation.	Yes		
	Date/Time Collected?		Yes	l	
0	Collectors name?		Yes		
	Preservation				
	s the COC or field labels indicate the samples were pr	reserved?	No		
	sample(s) correctly preserved?		NA		
	b filteration required and/or requested for dissolved m	netals?	No		
	ase Sample Matrix				
	s the sample have more than one phase, i.e., multipha		No		
27. If yes	s, does the COC specify which phase(s) is to be analy	/zed?	NA		
<u>Subcont</u>	ract Laboratory				
28. Are s	samples required to get sent to a subcontract laborator	ry?	No		
29. Was	a subcontract laboratory specified by the client and if	f so who?	NA S	ubcontract Lab	»: NA

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

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



envirotech Inc.







Site Photography





Practical Solutions for a Better Tomorrow

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

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

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

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

CONDITIONS

Page 70 of 70

Action 22008