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-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

# Proposed Alternative Method Permit or Closure Plan Application

Modification to an existi	ed alternative method rade tank, or proposed alternative method
Instructions: Please submit one application (Form	n C-144) per individual pit, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator environment. Nor does approval relieve the operator of its responsibility to	of liability should operations result in pollution of surface water, ground water or the comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator:LOGOS Resources II, LLC	OGRID # 289408
Address: _2010 Afton Pl Farmington, NM 87410	
Facility or well name:Rosa Unit #043	
	OCD Permit Number:
Center of Proposed Design: Latitude _36.8820075	Longitude107.293039NAD83
Surface Owner: ☑ Federal ☐ State ☐ Private ☐ Tribal Trust or Inc	dian Allotment
☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ I ☐ String-Reinforced	I Fluid Management   Low Chloride Drilling Fluid   yes   no
Tank Construction material:Fiberglass Tank w/ Banded 20 mil HI  Secondary containment with leak detection ☐ Visible sidewalls ☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other Liner type: Thicknessmil ☐ HDPE ☐ PV	DPE Secondary Liners, liner, 6-inch lift and automatic overflow shut-off
Tank Construction material:Fiberglass Tank w/ Banded 20 mil HI  Secondary containment with leak detection	DPE Secondary Liner

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Netting Other  Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC  12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  Signed in compliance with 19.15.16.8 NMAC	
Variances and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	otable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. (Does not apply to below grade tanks)  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks)  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. (Does not apply to below grade tanks)  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes No
Within a 100-year floodplain. (Does not apply to below grade tanks) - FEMA map	Yes No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☒ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)  - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

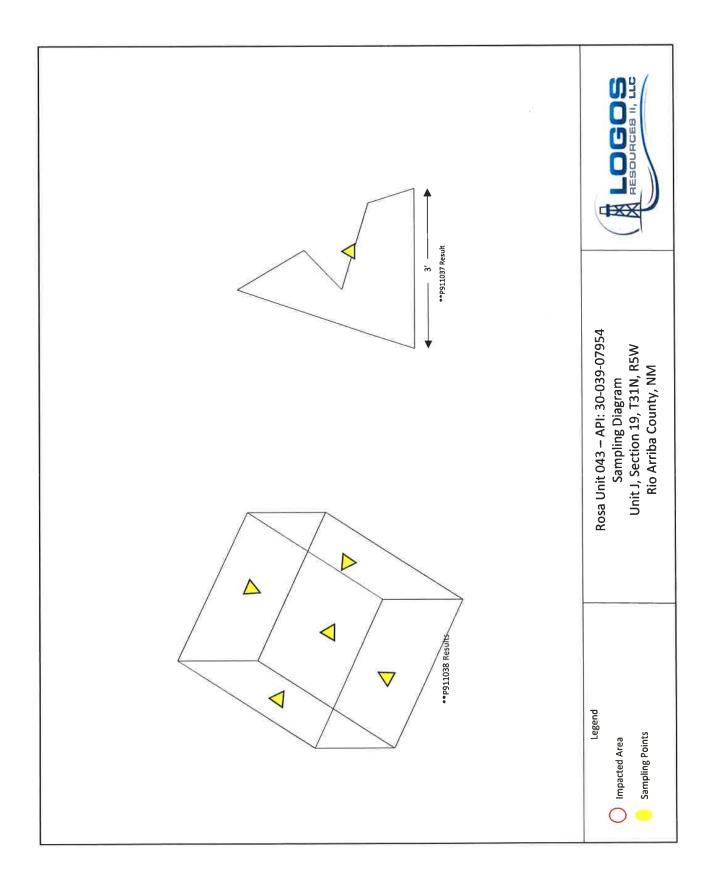
Within 100 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached.  Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC  Previously Approved Design (attach copy of design) API Number:  or Permit Number:	NMAC  15.17.9 NMAC
11.	
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC  Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc attached.  Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  A List of wells with approved application for permit to drill associated with the pit.  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19 and 19.15.17.13 NMAC  Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Previously Approved Design (attach copy of design) API Number:  or Permit Number:  or Permit Number:	

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the d	ocuments are
attached.  Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Climatological Factors Assessment  Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC  Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC  Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC  Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC  Quality Control/Quality Assurance Construction and Installation Plan  Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC  Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan  Emergency Response Plan  Oil Field Waste Stream Characterization	
☐ Monitoring and Inspection Plan ☐ Erosion Control Plan ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Proposed Closure: 19.15.17.13 NMAC  Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well Flandstruction Alternative  Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method	uid Management Pit
14.  Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be a closure plan. Please indicate, by a check mark in the box, that the documents are attached.  □ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  □ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC  □ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)  □ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  □ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	nttached to the
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. P. 19.15.17.10 NMAC for guidance.	rce material are Please refer to
Ground water is less than 25 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ⊠ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☑ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☑ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☑ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

e:

- Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☑ No
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☒ No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ☒ No
Within a 100-year floodplain FEMA map	☐ Yes ☒ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC  Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	.11 NMAC .15.17.11 NMAC
Operator Application Certification:  I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and bell Name (Print):  Title:	
Signature: Date:	
Signature: Date:	
e-mail address:	
e-mail address:	
e-mail address: Telephone:	
e-mail address:	
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e-mail address:    Telephone:	g the closure report.
e-mail address:    Telephone:	g the closure report. of complete this









## **Analytical Report**

#### **Report Summary**

Client: Logos Operating, LLC

Samples Received: 11/8/2019

Job Number: 12035-0114

Work Order: P911038

Project Name/Location: Rosa 43

D	Davidson at Duil	
Report	Reviewed By:	

Walter Hindren

Date:

11/15/19

Walter Hinchman, Laboratory Director



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

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

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

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

5796 Highway 64, Farmington, NM 87401

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



Project Name:

Rosa 43

PO Box 18

Project Number: Project Manager:

12035-0114 Larissa Farrell

Reported: 11/15/19 16:29

Flora Vista NM, 87415

## **Analytical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Rosa 43 P1	P911038-01A	Soil	11/08/19	11/08/19	Glass Jar, 4 oz.
	P911038-01B	Soil	11/08/19	11/08/19	Glass Jar, 4 oz.
Rosa 43 P2	P911038-02A	Soil	11/08/19	11/08/19	Glass Jar, 4 oz.
1000	P911038-02B	Soil	11/08/19	11/08/19	Glass Jar, 4 oz.

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Project Name:

Rosa 43

PO Box 18 Flora Vista NM, 87415 Project Number: Project Manager: 12035-0114 Larissa Farrell Reported: 11/15/19 16:29

Rosa 43 P1 P911038-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg		1946002	11/11/19	11/12/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.9 %	50	-150	1946002	11/11/19	11/12/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1946013	11/12/19	11/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1946013	11/12/19	11/14/19	EPA 8015D	
Surrogate: n-Nonane		125 %	50	-200	1946013	11/12/19	11/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20,0	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.2 %	50	)-150	1946002	11/11/19	11/12/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	21.4	20.0	mg/kg	1	1946012	11/12/19	11/13/19	EPA 300,0/9056A	

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Flora Vista NM, 87415

Project Name:

Rosa 43

PO Box 18

Project Number: Project Manager: 12035-0114 Larissa Farrell Reported: 11/15/19 16:29

Rosa 43 P2 P911038-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1.	1946002	11/11/19	11/12/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	50-	-150	1946002	11/11/19	11/12/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OI	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1946013	11/12/19	11/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1946013	11/12/19	11/14/19	EPA 8015D	
Surrogate: n-Nonane		135 %	50-	-200	1946013	11/12/19	11/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.6 %	50	-150	1946002	11/11/19	11/12/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1946012	11/12/19	11/13/19	EPA 300.0/9056A	

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Labadmin 6 envirotech-inc com



Project Name:

Rosa 43

PO Box 18

Project Number: Project Manager:

12035-0114 Larissa Farrell

Reported: 11/15/19 16:29

Flora Vista NM, 87415

## Volatile Organics by EPA 8021 - Quality Control

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source	A/BEC	%REC	nnn	RPD	Mas
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1946002 - Purge and Trap EPA 5030A										
Blank (1946002-BLK1)				Prepared:	11/11/19 0 A	nalyzed: 1	1/11/19 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	50							
Ethylbenzene	ND	0.0250	#.							
o,m-Xylene	ND	0.0500	#1							
o-Xylene	ND	0.0250	***							
Total Xylenes	ND	0.0250								
Surrogate: 4-Bromochlorobenzene-PID	8.04			8.00		100	50-150			
LCS (1946002-BS1)				Prepared:	11/11/19 0 A	Analyzed: 1	1/11/19 1			
Benzene	4 94	0.0250	mg/kg	5.00		98.7	70-130			
Foluene	5.05	0.0250	**	5.00		101	70-130			
Ethylbenzene	4.97	0.0250	*	5.00		99.4	70-130			
o,m-Xylene	9.89	0.0500		10.0		98.9	70-130			
p-Xylene	4 93	0.0250	96	5.00		98.5	70-130			
Total Xylenes	14.8	0.0250		15.0		98.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.17		(#1	8.00		102	50-150			
Matrix Spike (1946002-MS1)	Sou	ırce: P911034-	01	Prepared: 11/11/19 0 Analyzed: 11/11/19 1						
Benzene	5.13	0.0250	mg/kg	5.00	ND	103	54 3-133			
Toluene	5.26	0.0250		5.00	ND	105	61 4-130			
Ethylbenzene	5.18	0.0250	*	5,00	ND	104	61_4-133			
o,m-Xylene	10.3	0.0500	36	10.0	ND	103	63 3-131			
p-Xylene	5.12	0.0250	3	5.00	ND	102	63.3-131			
Total Xylenes	15.4	0.0250		15.0	ND	103	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7.90		7,90	8,00		98.7	50-150			
Matrix Spike Dup (1946002-MSD1)	Soi	urce: P911034-	01	Prepared:	11/11/19 0 A	Analyzed: 1	1/11/19 1			
Benzene	5.08	0.0250	mg/kg	5.00	ND	102	54.3-133	1.01	20	
Toluene	5 19	0.0250		5 00	ND	104	61 4-130	1,33	20	
Ethylbenzene	5.12	0.0250		5.00	ND	102	61 4-133	1.25	20	
enyloenzene p.m-Xylene	10.2	0.0500	29.	10.0	ND	102	63 3-131	1 08	20	
	5.05	0.0250	D#	5.00	ND	101	63.3-131	1 36	20	
o-Xylene Total Xylenes	15.2	0.0250	194	15.0	ND	102	63.3-131	1.18	20	
		0,0230	747				50-150			
Surrogate: 4-Bromochlorobenzene-PID	7.88			8.00		98.5	30-130			

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5796 Highway 64, Farmington, NM 87401

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



Project Name:

Rosa 43

PO Box 18

Project Number: Project Manager: 12035-0114

Reported: 11/15/19 16:29

Flora Vista NM, 87415

Larissa Farrell

## Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

#### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1946013 - DRO Extraction EPA 3570										
Blank (1946013-BLK1)				Prepared:	11/12/19 1 /	Analyzed: 1	1/14/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	70							
Surrogate: n-Nonane	48.9		7850	50.0		97.7	50-200			
LCS (1946013-BS1)				Prepared:	11/12/19 1 /	Analyzed: 1	1/14/19 1			
Diesel Range Organics (C10-C28)	499	25 0	mg/kg	500		99.9	38-132			
Surrogate: n-Nonane	50.0		(00.0	50.0		100	50-200			
Matrix Spike (1946013-MS1)	Sou	rce: P911034-	01	Prepared:	11/12/19 1	Analyzed: 1	1/14/19 1			
Diesel Range Organics (C10-C28)	1530	25,0	mg/kg	500	562	194	38-132			M2
Surrogate: n-Nonane	66.1		100	50.0		132	50-200			
Matrix Spike Dup (1946013-MSD1)	Sou	rce: P911034-	01	Prepared:	11/12/19 1	Analyzed: 1	1/14/19 1			
Diesel Range Organics (C10-C28)	1480	25.0	mg/kg	500	562	184	38-132	3 51	20	M2
Surrogate: n-Nonane	62.9		(4)	50.0		126	50-200			

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Project Name:

Rosa 43

PO Box 18

Project Number: Project Manager:

Reporting

12035-0114

Reported:

Flora Vista NM, 87415

Larissa Farrell

Spike

Source

11/15/19 16:29

RPD

%REC

## Nonhalogenated Organics by 8015 - GRO - Quality Control

#### **Envirotech Analytical Laboratory**

		F								
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1946002 - Purge and Trap EPA 5030A										
Blank (1946002-BLK1)				Prepared:	11/11/19 0 /	Analyzed: 1	1/11/19 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.84		ie.	8.00		85.5	50-150			
LCS (1946002-BS2)				Prepared:	11/11/19 0	Analyzed: 1	1/11/19 1			
Gasoline Range Organics (C6-C10)	43.8	20.0	mg/kg	50 0		87.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.83		(#)	8.00		85.3	50-150			
Matrix Spike (1946002-MS2)	Sour	ce: P911034-	01	Prepared:	11/11/19 0	Analyzed: 1	1/11/19 1			
Gasoline Range Organics (C6-C10)	46.9	200	mg/kg	50.0	ND	93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.89		100.0	8.00		86. I	50-150			
Matrix Spike Dup (1946002-MSD2)	Sour	rce: P911034-	01	Prepared:	11/11/19 0	Analyzed: 1	1/11/19 2			
Gasoline Range Organics (C6-C10)	46 2	20.0	mg/kg	50,0	ND	92.4	70-130	1.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.82		72	8.00		85.2	50-150			

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Project Name:

Rosa 43

Project Number: Project Manager:

Reporting

12035-0114

Reported:

Flora Vista NM, 87415

Larissa Farrell

Spike

Source

11/15/19 16:29

RPD

%REC

## Anions by 300.0/9056A - Quality Control

#### **Envirotech Analytical Laboratory**

		reporting		opine	2040					
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1946012 - Anion Extraction EPA	300.0/9056A									
Blank (1946012-BLK1)				Prepared:	11/12/19 0 /	Analyzed: 1	1/12/19 1			
Chloride	ND	20.0	mg/kg							
LCS (1946012-BS1)				Prepared:	11/12/19 0	Analyzed: 1	1/12/19 1			
Chloride	251	20.0	mg/kg	250		100	90-110			
Matrix Spike (1946012-MS1)	Source	e: P911036-	01	Prepared:	11/12/19 0	Analyzed: 1	1/12/19 1			
Chloride	264	20.0	mg/kg	250	ND	106	80-120			
Matrix Spike Dup (1946012-MSD1)	Source	e: P911036-	01	Prepared:	11/12/19 0	Analyzed: 1	11/12/19 1			
Chloride	262	20.0	mg/kg	250	ND	105	80-120	0.805	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 my differ slightly.

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Page 8 of 10



Project Name:

Rosa 43

PO Box 18

Project Number: Project Manager: 12035-0114

Reported: 11/15/19 16:29

Flora Vista NM, 87415

Larissa Farrell

**Notes and Definitions** 

M2

Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable,

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

RPD

Relative Percent Difference

Methods marked with \*\* are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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mple Matrix: S - Soil, Sd - Soild, Sg - Sludge, A - Aqueous, O - Other	es will be returned to clie	nt or di	sposed	of at t	he clien	nt expe	nse. The r	eport fo	r the ana	lysis of th	e above	samples is applicable



## **Analytical Report**

#### **Report Summary**

Client: Logos Operating, LLC

Samples Received: 11/8/2019 Job Number: 12035-0114 Work Order: P911037

Project Name/Location: Rosa 43

Report	Reviewed By:	
REDOL	Reviewed DV.	

Walter Hinkman

Date:

11/15/19

Walter Hinchman, Laboratory Director



Envirotech inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.

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

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

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

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Project Name:

Rosa 43

Reported:

PO Box 18 Flora Vista NM, 87415 Project Number: Project Manager: 12035-0114 Larissa Farrell

11/15/19 16:28

## **Analytical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Pit	P911037-01A	Soil	11/08/19	11/08/19	Glass Jar, 4 oz.
	P911037-01B	Soil	11/08/19	11/08/19	Glass Jar, 4 oz.

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Flora Vista NM, 87415

Project Name:

Rosa 43

PO Box 18

Project Number: Project Manager: 12035-0114 Larissa Farrell Reported: 11/15/19 16:28

Pit

P911037-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	3	1946002	11/11/19	11/12/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	50-	-150	1946002	11/11/19	11/12/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0							··-	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1946013	11/12/19	11/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1946013	11/12/19	11/14/19	EPA 8015D	
Surrogate: n-Nonane		137 %	50-	-200	1946013	11/12/19	11/14/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1946002	11/11/19	11/12/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.3 %	50-	-150	1946002	11/11/19	11/12/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1946012	11/12/19	11/12/19	EPA 300_0/9056A	

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Project Name:

Rosa 43

PO Box 18

Project Number: Project Manager: 12035-0114 Larissa Farrell Reported: 11/15/19 16:28

Flora Vista NM, 87415

### Volatile Organics by EPA 8021 - Quality Control

### **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1946002 - Purge and Trap EPA 5030A										
Blank (1946002-BLK1)				Prepared:	11/11/19 0 A	Analyzed: 1	1/11/19 1			
Benzene	ND	0.0250	mg/kg							
Foluene	ND	0 0250	60							
Ethylbenzene	ND	0.0250	*							
o,m-Xylene	ND	0.0500	*							
-Xylene	ND	0.0250	25							
Total Xylenes	ND	0.0250								
Surrogate: 4-Bromochlorobenzene-PID	8.04		(0)	8.00		100	50-150			
LCS (1946002-BS1)				Prepared:	11/11/19 0 <i>A</i>	Analyzed: 1	1/11/19 1			
Benzene	4.94	0.0250	mg/kg	5.00		98.7	70-130			
Toluene	5.05	0.0250		5.00		101	70-130			
Ethylbenzene	4.97	0.0250	*	5.00		99.4	70-130			
p,m-Xylene	9.89	0.0500	90	10.0		98.9	70-130			
o-Xylene	4.93	0.0250		5.00		98.5	70-130			
Total Xylenes	14.8	0.0250		15.0		98.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.17		**	8.00		102	50-150			
Matrix Spike (1946002-MS1)	Sour	ce: P911034-	01	Prepared:	11/11/19 0 /	Analyzed: 1	1/11/19 1			
Benzene	5,13	0.0250	mg/kg	5.00	ND	103	54 3-133			
Toluene	5.26	0.0250	.90	5.00	ND	105	61_4-130			
Ethylbenzene	5.18	0.0250	*	5.00	ND	104	61 4-133			
p,m-Xylene	10.3	0.0500	#	10.0	ND	103	63 3-131			
o-Xylene	5,12	0.0250	3#	5.00	ND	102	63 3-131			
Total Xylenes	15.4	0.0250	(#	15.0	ND	103	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7.90		(#)	8.00		98.7	50-150			
Matrix Spike Dup (1946002-MSD1)	Sour	ce: P911034-	01	Prepared:	11/11/19 0 /	Analyzed: 1	1/11/19 1			
Benzene	5.08	0.0250	mg/kg	5.00	ND	102	54 3-133	1.01	20	
Toluene	5.19	0.0250	<b>H</b>	5.00	ND	104	61,4-130	1,33	20	
Ethylbenzene	5.12	0.0250		5.00	ND	102	61.4-133	1 25	20	
p,m-Xylene	102	0.0500		10.0	ND	102	63.3-131	1_08	20	
o-Xylene	5.05	0.0250	39	5.00	ND	101	63.3-131	1.36	20	
Total Xylenes	15.2	0.0250		15 0	ND	102	63 3-131	1.18	20	
Surrogate: 4-Bromochlorobenzene-PID	7.88		H.	8.00		98.5	50-150			

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Project Name:

Rosa 43

PO Box 18

Project Number: Project Manager: 12035-0114 Larissa Farrell Reported: 11/15/19 16:28

Flora Vista NM, 87415 Project Manager: Larissa Farrell

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

**Envirotech Analytical Laboratory** 

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1946013 - DRO Extraction EPA 3570										
Blank (1946013-BLK1)				Prepared:	11/12/19 1 /	Analyzed: 1	1/14/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	#0							
Surrogate: n-Nonane	48.9		Sec	50.0		97.7	50-200			
LCS (1946013-BS1)				Prepared:	11/12/19 1	Analyzed: 1	1/14/19 1			
Diesel Range Organics (C10-C28)	499	25 0	mg/kg	500		99 9	38-132			
Surrogate: n-Nonane	50.0		10	50.0		100	50-200			
Matrix Spike (1946013-MS1)	Sou	rce: P911034-	01	Prepared:	11/12/19 1	Analyzed: 1	1/14/19 1			
Diesel Range Organics (C10-C28)	1530	25.0	mg/kg	500	562	194	38-132			M2
Surrogate: n-Nonane	66.1			50.0		132	50-200			
Matrix Spike Dup (1946013-MSD1)	Sou	rce: P911034-	1/14/19 1							
Diesel Range Organics (C10-C28)	1480	25 0	mg/kg	500	562	184	38-132	3.51	20	M2
Surrogate: n-Nonane	62.9		597	50.0		126	50-200			

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Project Name:

Rosa 43

PO Box 18 Flora Vista NM, 87415 Project Number: Project Manager: 12035-0114 Larissa Farrell Reported: 11/15/19 16:28

Nonhalogenated Organics by 8015 - GRO - Quality Control

**Envirotech Analytical Laboratory** 

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1946002 - Purge and Trap EPA 5030A										
Blank (1946002-BLK1)				Prepared: 1	1/11/19 0 <i>A</i>	Analyzed: 1	1/11/19 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.84		18	8.00		85.5	50-150	7.		
LCS (1946002-BS2)				Prepared: 1	11/11/19 0 <i>A</i>	Analyzed: 1	1/11/19 1			
Gasoline Range Organics (C6-C10)	43.8	20.0	mg/kg	50.0		87.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.83		•	8.00		85.3	50-150			
Matrix Spike (1946002-MS2)	Sou	rce: P911034-	01	Prepared:	11/11/19 0 A	Analyzed: 1	1/11/19 1			
Gasoline Range Organics (C6-C10)	46.9	20.0	mg/kg	50.0	ND	93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.89		(4)	8.00		86.1	50-150			
Matrix Spike Dup (1946002-MSD2)	Sou	rce: P911034-	01	Prepared:	11/11/19 0 /	Analyzed: 1	1/11/19 2			
Gasoline Range Organics (C6-C10)	46.2	20 0	mg/kg	50.0	ND	92.4	70-130	1.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.82		[[#]	8.00		85.2	50-150			

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Logos Operating, LLC Flora Vista NM, 87415 Project Name:

Rosa 43

PO Box 18

Project Number: Project Manager:

Reporting

12035-0114 Larissa Farrell

Spike

Source

Reported: 11/15/19 16:28

RPD

%REC

Anions by 300.0/9056A - Quality Control

**Envirotech Analytical Laboratory** 

		Keporting		Opiac	оошее		,,,,			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1946012 - Anion Extraction EPA	300.0/9056A									
Blank (1946012-BLK1)				Prepared:	11/12/19 0 /	Analyzed: 1	1/12/19 1			
Chloride	ND	20.0	mg/kg							
LCS (1946012-BS1)				Prepared:	11/12/19 0 /	Analyzed: 1	1/12/19 1			
Chloride	251	20.0	mg/kg	250		100	90-110			
Matrix Spike (1946012-MS1)	Sour	ce: P911036-	01	Prepared:	11/12/19 0	Analyzed: 1	1/12/19 1			
Chloride	264	20.0	mg/kg	250	ND	106	80-120			
Matrix Spike Dup (1946012-MSD1)	Sour	ce: P911036-	01	Prepared:	11/12/19 0	1/12/19 1				
Chloride	262	20.0	mg/kg	250	ND	105	80-120	0.805	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 my differ slightly.

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Logos Operating, LLCProject Name:Rosa 43PO Box 18Project Number:12035-0114Reported:Flora Vista NM, 87415Project Manager:Larissa Farrell11/15/19 16:28

#### **Notes and Definitions**

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

\*\* Methods marked with \*\* are non-accredited methods.

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Project Infor	rmation	)						Chain o	f Custody												P	age of
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I, (field-samples), o	ettest to the	velidity and	uthenticity	of this sample.	Lam tiva	re that tampe	ering with or intentionally m	nightelling the sample loca	minh aget or										e received on			mpled or
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Note: Samples ar	re discard	ed 30 days a	fter results	are reported	unless of		ments are made. Hazaro		urned to clier					-	-		-	-		ve samp	ples is app	licable
only to those san	mples rece	ived by the I	laboratory	with this COC	The lial	bility of the l	laboratory is limited to th	he amount paid for on t	he report.	_	_	-					_					
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