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	ncs1929540748
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

			Kesp	onsibic i ai t	J		
Responsible Party LOGOS Operating, LLC			С	OGRID	289408		
Contact Name Marie E. Florez			-		Contact Telephone 505-419-8420		
Contact ema	il	z@logosresources	llc.com	Incident #	(assigned by OCD) ncs1929540748		
Contact mail			e, Farmington NN	/ 87401			
		2010 / 111011 1 140	c, r armington rviv	107401			
			Location	of Release S	ource		
Latitude	36.881439	2		Longitude	-107.2900925		
			(NAD 83 in de	cimal degrees to 5 deci	nal places)		
Site Name	Rosa Unit 3:	5.1 A		Site Type	Well		
Date Release		9/6/2019		API# (if ap)			
	T ~ ·						
Unit Letter	Section	Township	Range	Cour	nty		
I 19 31N R4W Rio Arriba				Rio Arriba			
Surface Owne	r: State	x Federal Tr	ribal	Name:)		
	_			·			
			Nature and	d Volume of	Release		
				calculations or specific	justification for the volumes provided below)		
Crude Oil		Volume Release	d (bbls)		Volume Recovered (bbls)		
X Produced	Water	Volume Release	d (bbls) >5bbls		Volume Recovered (bbls) 1bbl		
			cion of dissolved c	hloride in the	n the Yes No		
Condensa	ate	Volume Release			Volume Recovered (bbls)		
Natural G	☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)		e units)	Volume/Weight Recovered (provide units)				
_	,		ď	,			
Cause of Rel	ease Corre	ction to the submi	ttal on 10/02/2019).			
The cause of 5bbls.	of the release	e was due to signs	of recent stuffing	box leak, per OCD	inspector estimated volume release was greater than		
The release					chement with culvert. At the time, the well head		
cellar conta	ined approx	imately 1bbl of flu	ids. The release w	vas not leaking at tl	he time the inspector found it.		

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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respo	nsible party consider this a major release?
Yes X No		
If YES, was immediate n	otice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible	party must undertake the following actions immediate	y unless they could create a safety hazard that would result in injury
X The source of the rele	ease has been stopped.	
X The impacted area ha	s been secured to protect human health and	the environment.
X Released materials ha	ave been contained via the use of berms or	likes, absorbent pads, or other containment devices.
X All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain	why:
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
regulations all operators are public health or the environi failed to adequately investig	required to report and/or file certain release not ment. The acceptance of a C-141 report by the Cate and remediate contamination that pose a through	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name:Marie	E. Florez	Title: Regulatory Specialist
Signature: Marie	FLorez	Date: _06/15/2021
email:mflorez@logoss		Telephone:
OCD Only		
Received by:		Date:

	Page 3 of 59
Incident ID	ncs1929540748
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no tales man 20 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>93'</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 X No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🗓 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	x Yes No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil

contamination assoc	lated with the release have been determined. Refer to 17.13.27.11 (WIAC for specifies.
Characterization	Report Checklist: Each of the following items must be included in the report.
Field data	showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Depth to water	
Boring or exca	
✓ Photographs in✓ Topographic/A	cluding date and GIS information
	a including chain of custody

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

Received by OCD: 6/17/2021 11:57:48 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	ncs1929540748
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name: Marie E. Florez	Title: Regulatory Specialist					
Signature: Maris FLorez Date: 6/15/2021						
email: mflorez@logosresourcesllc.com Telephone: 505-419-8420						
OCD Only						
Received by:	Date:					

Received by OCD: 6/17/20	21 11:57:48 AM
Form C-141	State of New Mexico
Page 6	Oil Conservation Division

Incident ID
District RP
Facility ID
Application ID

Closure

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

Closure Report Attacl	hment Checklist: Each of the following it	tems must be inc	luded in the closure report.
A scaled site and sa	ampling diagram as described in 19.15.29.1	1 NMAC	
	remediated site prior to backfill or photos prior to liner inspection)	of the liner integ	rity if applicable (Note: appropriate OCD District office
✓ Laboratory analyse	s of final sampling (Note: appropriate ODC	C District office n	nust be notified 2 days prior to final sampling)
Description of remo	ediation activities		
and regulations all operarmay endanger public hear should their operations human health or the envicompliance with any other restore, reclaim, and revaccordance with 19.15.29 Printed Name: Marie Signature: Marie	tors are required to report and/or file certain alth or the environment. The acceptance of ave failed to adequately investigate and repronment. In addition, OCD acceptance of a refederal, state, or local laws and/or regular regetate the impacted surface area to the condition. NMAC including notification to the OCD acceptance of the condition of the COD acceptance of the condition of the COD acceptance of the COD accept	n release notifical a C-141 report by mediate contaminal a C-141 report doutions. The responditions that exist of CD when reclaming the control of the contr	Regulatory Specialist
OCD Only			
Received by:		Date:	
remediate contamination		water, human hea	d their operations have failed to adequately investigate and lth, or the environment nor does not relieve the responsible
Closure Approved by: Printed Name:	Nelson Velez	Date:	01/21/2022
Printed Name:	Nelson Velez	Title:	Environmental Specialist – Adv



June 16, 2021

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

Incident # nCS1929540748

RE: Signs of recent stuffing box leak, estimate volume was greater than 5 bbls, release ran off location downside of access road towards storm water catchment with culvert. Well head cellar still contains approximately 1 bbl of fluids. Not currently leaking. Rosa Unit 354A well site. Located in Section 19, Township 31 North, Range 4 West, Unit I Rio Arriba, New Mexico.

Dear Mr. Smith,

On September 9, 2019, LOGOS Operating, LLC cleaned up the remainder of the storm water from stuffing box and from the contaminated soil. The affected area was treated with (1) 50lb bag of Gypsum, spread and raked in the soil.

Notification for final sampling was requested to be performed on October 9, 2019. The samples were above remediation level. The first results for SS1 identified the Chloride content @ 612 mg/kg and SS2 identified the Chloride content @ 602 mg/kg which is above the remediation level of 600 mg/kg. The delineation was not shown in this report due to change in staff and lost files.

Unsure if notification request was submitted for confirmation sample taken on November 9, 2019. The samples were below remediation level. The second result for SS1 identified the Chloride content @ ND mg/kg and results for SS2 identified the Chloride content @ 114 mg/kg which is below the remediation level of 600 mg/kg. The delineation was not shown in this report.

The application was rejected on April 21, 2020 thru email by NMOCD due to closure report does not meet requirements of 19.15.29.12 NMAC executive summary, also does not match sample results/dates, no sampling notice attached/provided.

On May 1, 2020, LOGOS went to location and re-treated the affected area with (1) 50lb bag of Gypsum, spread and raked in the soil.

LOGOS had not submitted the closure report due to change in staff, environmental learning curves and workload.

Notification for final sampling was requested to be performed on December 29, 2021. The final confirmation testing was cancelled, and LOGOS notified NMOCD due to weather and frozen ground.

Notification for final sampling was requested once again to be performed on March 9, 2021. **The three of the 4 samples passed** and one failed.

Soil samples were collected at 1-foot intervals in each boring.

SC-1@1' SC-3@1' SC-1@3' SC-3@3'

The 2 sets of samples were placed into a ziplock back then into individual laboratory 4-ounce jars, capped head space free and transported on ice to Envirotech. The samples were analyzed for TPH as gasoline diesel, and oil range organics (GRO/DRO/ORO) using EPA Method 8015D; benzene, Toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B and chlorides using EPA Method 300.0.

Final Sample Results								
Sample	Date	Sample	EPA Met	EPA Method 8015 EPA Meth		nod 8021 EPA Met		hod 300.0
Description		Depth	GRO	DRO	ORO	Benzene	Total	Chlorides
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX	(mg/kg)
							(mg/kg)	
19.15.29.13 (D) NMAC		100 mg/kg		10	50	600		
					mg/kg	mg/kg	mg/kg	
19.15.29.12 NMAC		1000 mg/kg				10,000		
			2500 mg/kg		g			mg/kg
SC-1 @ 1'	3/18/2021	1 foot	ND	ND	ND	ND	ND	<mark>878</mark>
SC-1 @ 3'	3/18/2021	3 foot	ND	ND ND ND		ND	ND	83.2
SC-2 @ 1'	3/18/2021	1 foot	ND	ND	50.3	ND	ND	406
SC-2 @ 3'	3/18/2021	3 foot	ND	ND	ND	ND	ND	98.1

3/23/2021 – Notified OCD to request an extension to re-treat SC-1 @ 1' due to high levels. LOGOS was denied for an additional extension. OCD informed LOGOS to begin remediation.

4/8/2021 -LOGOS scheduled with Kelley Oilfield Services and began remediation within the SS1 area, by digging down to two feet with a backhoe along contaminated area, removed and disposed 10 yards of contaminated soil at Industrial Ecosystems INC., (IEI) landfarm. The spill path for the remediated area is identified in the red box on the Ariel map.

4/19/2021-Notification for final confirmation sampling was requested to the surface owner (BLM) and OCD to be performed on Wednesday, 4/21/2021.

4/21/2021 - A composite grab sample was collected at two feet along the contaminated area after remediation was complete. The samples were placed in a Ziplock bag then placed into an individual laboratory 4-ounce jars, capped head space free and transported on ice to Envirotech. The samples were analyzed for TPH as gasoline diesel, and oil range organics (GRO/DRO/ORO) using EPA Method 8015D; benzene, Toluene, ethylbenzene and total xylenes (BTEX) using EPA Method 8021B and chlorides using EPA Method 300.0.

Final Sample Results															
Sample	Date	Sample	EPA Method 8015		EPA Met	hod 8021	EPA Method 300.0								
Description		Depth	GRO	DRO	ORO	Benzene	Total	Chlorides							
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX	(mg/kg)							
							(mg/kg)								
19.15.2	29.13 (D) NM	AC		100 mg/kg		10	50	600							
						mg/kg	mg/kg	mg/kg							
19.15.29.12 NMAC		1000 mg/kg					10,000								
			2500 mg/kg		2500 mg/kg		2500 mg/kg		2500 mg/kg		2500 mg/kg				mg/kg
Grab	4/21/2021	2 feet	ND	ND	ND	ND	ND	64.2							
sample															

The release in the SS2 area was sampled and passed on 3/11/21. The release was remediated down to 2' in SS 1 Area and passed on 4/21/2021. The depth to groundwater was assessed as being 93 feet. The groundwater data is documented in the enclosed TOPO Site Criteria. The Rosa Unit 43-Cathodic well was drilled to 500' and identified GW @ 80' with an elevation of 6572' and an elevation for the Rosa Unit 354A is at 6585' with an estimated GW > 93'.

Therefore, based on the gypsum treatments and remediation on SS1 and the laboratory analytical results confirms that concentrations of contaminants are below the applicable release, remediation/reclamation limits and no further action is required. LOGOS request a release and remediation/reclamation closure approval from NMOCD.

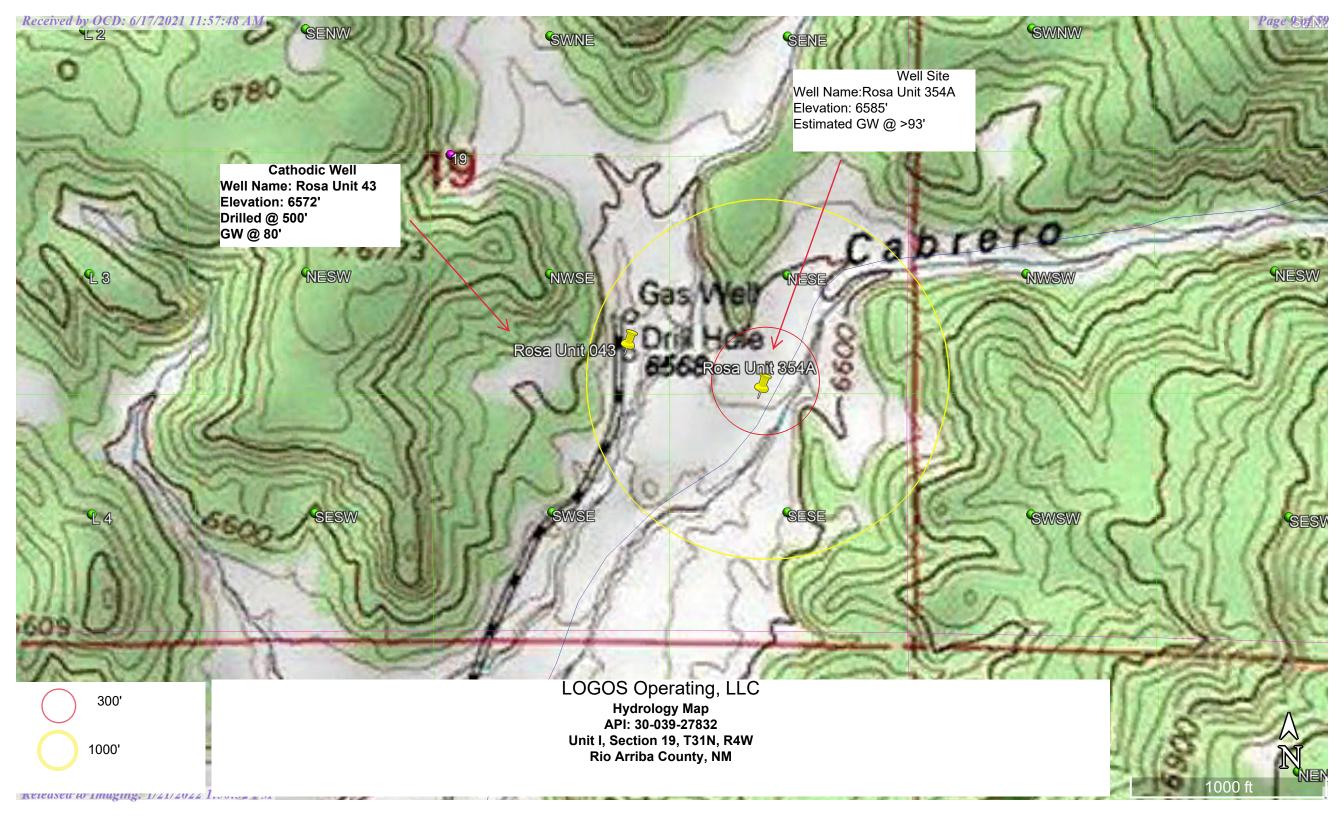
Sincerely,

Marie E. Florez

Regulatory Specialist Cell: 505-419-8420

Marie (FLorez

mflorez@logosresourcesllc.com



DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS IN NORTHWEST NEW MEXICO

ERATOR: Williams Production Company LOCATION: J 19 31 4 LEASE NUMBER: SF-078889

NAME OF WELL/WELLS OR PIPELINE SERVICED: ROSA UNIT #043 DK 30-039-01954 DUALWELL N/A

ELEVATION: 6572' GR COMPLETION DATE: 10/20/87 TOTAL DEPTH: 500 ft. LAND TYPE: FED

CASING: 7-5/8" 26.4# K-55 Set @ N/A ft. Casing is not cemented.

CEMENT PLUG--Top:N/A' Bottom: N/A' Used O sx. Class "B" (1.18 cu.ft./sk).

WATER DEPTH: 80 ' Water zone thickness not available. WATER DESCRIPTION: Fresh

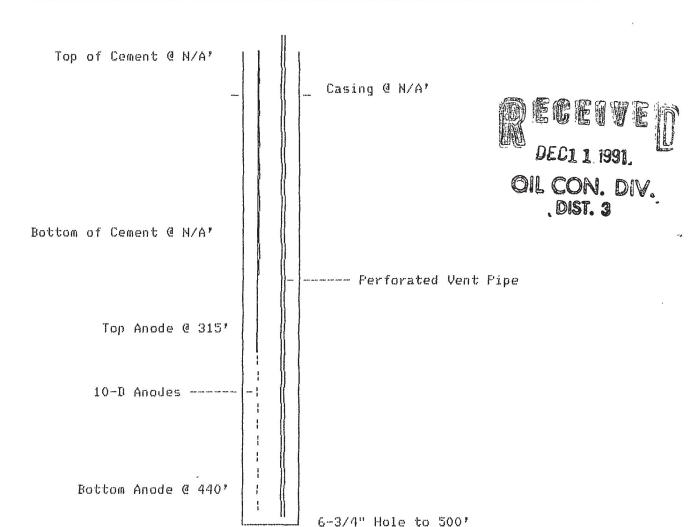
DEPTH OF GAS: N/A '

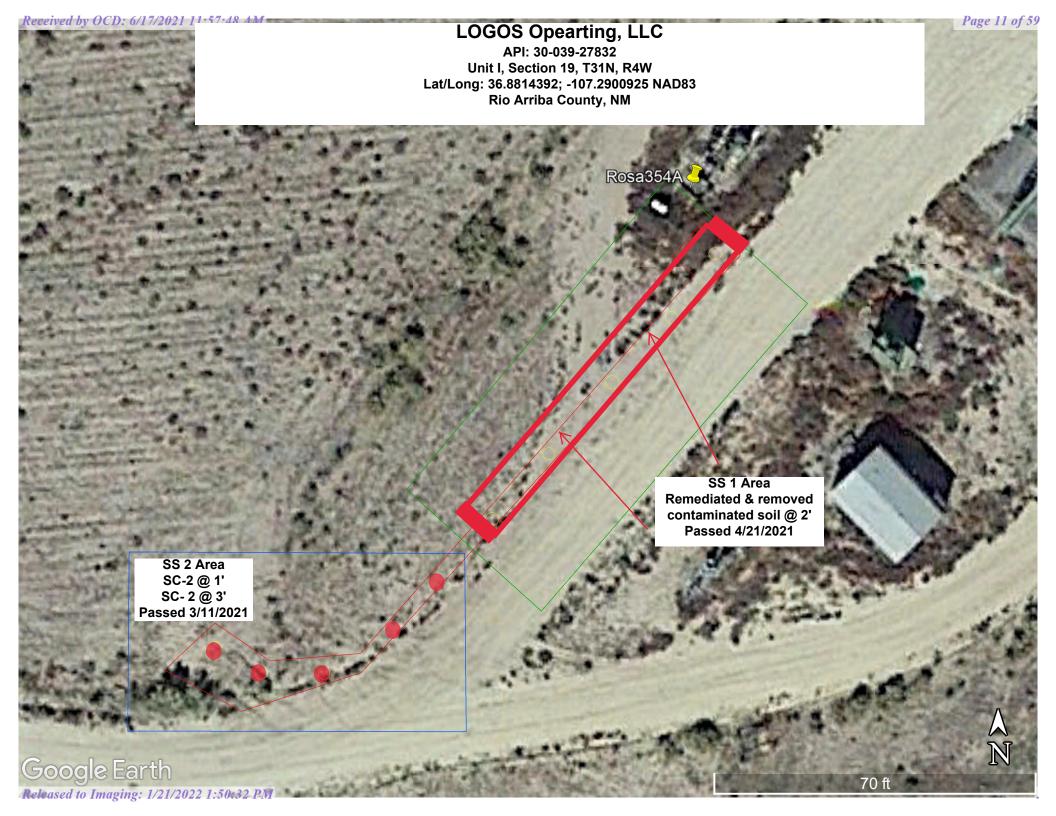
COKE: 6345 lbs. of Metalurgical coke breeze used.

NUMBER & TYPE OF ANODES: 10-D TOP ANODE @ 315 ft. BOTTOM ANODE @ 440 ft.

VENT PIPE: 1" PVC Set @ 500 ft. Vent pipe perforated from 295 ft. to 500 ft.

REMARKS:





Well Name:	Rosa Unit 354A
Date of Arrival:	3/18/2021
Observe Area	
	Removed contaminated soils X Yes No
	What chemical was used to clean-up contaminated area:
	gypsum, 1 50lb spread and raked into affected area
Take Picture:	x Before x After
Entire Spill Containment:	X Dry Wet
	If wet: Rain, Moist, etc
Site Delineation	
	Sample 1: Composite (Grab Sample) Yes No
	Was (2) five-point sample taken:
	Sample 2:
	Delineation (Hand Auger) Yes No
	Depths SB - 1
	SB - 2 X 1' 2' X 3' 4'
	SB - 3
	SB - 4
Soil	Did soil have odor: If so, what kind of odor: X No
	No order
	Was soil discolored: x Yes No If so, what color:
	Was the soil sandy: Yes x No

Well Name:	Rosa Unit 354A
Date of Arrival:	4/21/2021
Observe Area	
	Removed contaminated soils X Yes No
	What chemical was used to clean-up contaminated area:
	gypsum, 1 50lb spread and raked into affected area remediated 4/8/2021 then re-sampled SS1
Take Picture:	x Before x After
Entire Spill Containment:	X Dry Wet
	If wet: Rain, Moist, etc
Site Delineation x	Sample 1: Composite (Grab Sample) X Yes No Was (2) five-point sample taken: Yes No
	Sample 2: Delineation (Hand Auger) Yes No Depths SB - 1 1' 2' 3' 4'
	SB - 2
	SB - 3
	SB - 4 1' 2' 3' 4'
Soil	Did soil have odor: If so, what kind of odor: X No
	No order
	Was soil discolored: x Yes No If so, what color:
	Was the soil sandy: Yes X No

Well Name:	Rosa Unit 354A
Date of Arrival:	5/1/2019
Observe Area	
	Removed contaminated soils X Yes No
	What chemical was used to clean-up contaminated area:
	gypsum, 1 50lb spread and raked into affected area
Take Picture:	x Before x After
Entire Spill Containment:	x Dry Wet
	If wet: Rain, Moist, etc
Site Delineation	Sample 1:
x	Composite (Grab Sample) Yes No
	Was (2) five-point sample taken: Yes No
	Sample 2:
	Delineation (Hand Auger) Yes No
	Depths SB - 1 1' 2' 3' 4'
	SB - 2
	SB - 3
	SB - 4
Soil	Did soil have odor: If so, what kind of odor: X No
	Was soil discolored: x Yes No If so, what color:
	dark soil
	Was the soil sandy: Yes x No

From: Marie Florez

To: Smith, Cory, EMNRD; Chase Polledo; Joyner, Ryan N

Cc:Tamra Sessions; Robert JordanSubject:RE: Rosa Unit 354A nCS1929540748Date:Wednesday, March 24, 2021 8:10:00 AM

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

image002.jpg

Thank you, will do!

Marie E. Florez

mflorez@logosresourcesllc.com



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

Sent: Wednesday, March 24, 2021 8:10 AM

To: Marie Florez <mflorez@logosresourcesllc.com>; Chase Polledo <cpolledo@logosresourcesllc.com>; Joyner, Ryan N <rjoyner@blm.gov> **Cc:** Tamra Sessions <tsessions@logosresourcesllc.com>; Robert Jordan

<rjordan@logosresourcesllc.com>

Subject: RE: Rosa Unit 354A nCS1929540748

Marie,

The plan to dig and haul the impacted area is approved by the OCD. Please send in your sampling notice following 19.15.29 NMAC as it gets closer.

Cory Smith • Environmental Specialist

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

From: Marie Florez <<u>mflorez@logosresourcesllc.com</u>>

Sent: Tuesday, March 23, 2021 4:29 PM

To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>; Chase Polledo <<u>cpolledo@logosresourcesllc.com</u>>; Joyner, Ryan N <<u>rjoyner@blm.gov</u>> **Cc:** Tamra Sessions <<u>tsessions@logosresourcesllc.com</u>>; Robert Jordan

<riordan@logosresourcesllc.com>

Subject: [EXT] RE: Rosa Unit 354A nCS1929540748

Corey,

Per our conversation today, LOGOS will not be granted an additional extension on the following location.

See attached: LOGOS will begin remediation on April 8 of the spill path in red as noted within the SS1 Area green box. The SS 2 Area in blue passed.

 $3/18/2021 - 3^{rd}$ results for SC 1 @ 1' identified the Chloride content @ 878 mg/kg which is above the remediation level of 600 mg/kg.- Failed; The delineation site was captured.

3rd results for SC 1 @ 3' identified the Chloride content @ 83.2 mg/kg which is below the remediation level of 600 mg/kg. – **Passed**; The delineation site was captured.

 3^{rd} results for SC 2 @ 1' identified the Chloride content @ 406 mg/kg which is below the remediation level of 600 mg/kg.- Passed; The delineation site was captured.

3rd results for SC 2 @ 3' identified the Chloride content @ 98.1 mg/kg which is below the remediation level of 600 mg/kg. – **Passed**; The delineation site was captured.

9/6/2019- Signs of recent stuffing box leak, estimate volume was greater than 5bbls, release ran off location downside of access road towards storm water catchment with culvert. Well head cellar still contains approximately 1bbl of fluids. Not currently leaking. (P1560575-577.jpg)

Thanks,

Marie E. Florez

mflorez@logosresourcesllc.com



From: Marie Florez

Sent: Tuesday, March 9, 2021 2:43 PM

To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>; Chase Polledo <<u>cpolledo@logosresourcesllc.com</u>>; Joyner, Ryan N <<u>rjoyner@blm.gov</u>> **Cc:** 'Tamra Sessions' <<u>tsessions@logosresourcesllc.com</u>>; 'Robert Jordan'

<ri><riordan@logosresourcesllc.com>; Etta Trujillo <etrujillo@logosresourcesllc.com></ri>

Subject: RE: Rosa Unit 354A - Notification for final sampling

LOGOS is notifying BLM (Surface owner) and OCD two business days prior to conducting final sampling on the following well.

Date: March 11, 2021 (Thursday)

Time: 10:00am

Incident # ncs1929540748

API: 30-039-27832

Well Name: Rosa Unit 354A

Section: 19 Township: 31N Range: 4W Unit Letter: I

Thanks,

Marie E. Florez

mflorez@logosresourcesllc.com



From: Marie Florez

Sent: Wednesday, December 30, 2020 7:23 AM

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

<Brandon.Powell@state.nm.us>

Cc: Tamra Sessions < tsessions@logosresourcesllc.com >; Robert Jordan

<riordan@logosresourcesllc.com>

Subject: RE: Rosa Unit 354A - Notification for final sampling - Cancel

Cory,

LOGOS will need to cancel this until the ground thaws to take samples. We will keep you posted.

Thanks,

Marie E. Florez

mflorez@logosresourcesllc.com



From: Marie Florez

Sent: Tuesday, December 29, 2020 9:01 AM

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

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

Cc: Tamra Sessions < tsessions@logosresourcesllc.com >; Robert Jordan

<riordan@logosresourcesllc.com>

Subject: Rosa Unit 354A - Notification for final sampling

Importance: High

LOGOS is notifying OCD two business days (including the Holiday) prior to conducting final sampling on the following well.

Date: January 4, 2021 (Monday)

Time: 12:00pm

Incident # ncs1929540748

API: 30-039-27832

Well Name: Rosa Unit 354A

Section: 19 Township: 31N Range: 4W Unit Letter: I

Thanks,

Marie E. Florez

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

mflorez@logosresourcesllc.com



From: Larissa Farrell

"Smith, Cory, EMNRD"; Miller JJ (jjmiller@fs.fed.us) To:

Subject: FW: Sampling Notification

Date: Monday, October 7, 2019 4:02:00 PM

Attachments: image001.jpg

LOGOS Operating will be conducting these sampling events tomorrow (10/8/19). Please call for time if you will be attending.

Thank you,

Larissa Farrell

Environmental/Regulatory Technician

Office: (505) 787-2027 Cell: (505) 419-1100

<u>lfarrell@logosresourcesllc.com</u>



From: Larissa Farrell

Sent: Monday, October 7, 2019 10:19 AM

To: 'Smith, Cory, EMNRD' <Cory.Smith@state.nm.us>; Miller JJ (jjmiller@fs.fed.us)

<jjmiller@fs.fed.us>

Subject: Sampling Notification

Good morning,

LOGOS Operating will be conducting confirmation sampling at the following locations on Wednesday October 9, 2019 beginning at 11:00am at the Rosa Unit 354A.

Rosa Unit 354A 30-039-27832

Sec 19 T31N R4W

Rosa Unit 312 30-039-25058

Sec 28 T31N R4W

Rosa Unit 267

30-039-25012 Sec 28 T31N R5W

Please let me know if you have any questions.

Thank you,

Larissa Farrell Environmental/Regulatory Technician

Office: (505) 787-2027 Cell: (505) 419-1100

<u>lfarrell@logosresourcesllc.com</u>



From: Marie Florez

To: Smith, Cory, EMNRD; Chase Polledo; Joyner, Ryan N
Cc: Tamra Sessions; Robert Jordan; Etta Trujillo
Subject: RE: Rosa Unit 354A -Notification for final sampling

Date: Monday, April 19, 2021 8:12:00 AM

Attachments: <u>image002.jpg</u>

image003.jpg image004.jpg

Incident # ncs1929540748

LOGOS is notifying BLM (Surface owner) and OCD two business days prior to conducting final sampling on the following well.

Date: April 21, 2021 (Wednesday)

Time: 10:00am

API: 30-039-27832

Well Name: Rosa Unit 354A

Section: 19 Township: 31N Range: 4W Unit Letter: I

Thanks,

Marie E. Florez

mflorez@logosresourcesllc.com



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

Sent: Tuesday, March 9, 2021 3:56 PM

To: Marie Florez <mflorez@logosresourcesllc.com>; Chase Polledo <cpolledo@logosresourcesllc.com>; Joyner, Ryan N <rjoyner@blm.gov> Cc: Tamra Sessions <tsessions@logosresourcesllc.com>; Robert Jordan

<rjordan@logosresourcesllc.com>; Etta Trujillo <etrujillo@logosresourcesllc.com>

Subject: RE: Rosa Unit 354A - Notification for final sampling

Marie,

Thank you for the notification for confirmation sampling at the Rosa Unit 354A Incident # ncs1929540748 on March 11, 2021 (Thursday). If an OCD representative is not onsite please sample per 19.15.29 NMAC. If for some reason the date/time changes please contact OCD asap so we can update our schedules. If Logos is requesting alternative sampling sizes please email/call/ send photos

of the sampling area so the OCD can approve an alternative sampling size.

Thanks,

Cory Smith • Environmental Specialist

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

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

From: Marie Florez < mflorez@logosresourcesllc.com>

Sent: Tuesday, March 9, 2021 2:43 PM

To: Smith, Cory, EMNRD < <u>Cory.Smith@state.nm.us</u>>; Chase Polledo < <u>cpolledo@logosresourcesllc.com</u>>; Joyner, Ryan N < <u>rjoyner@blm.gov</u>> **Cc:** Tamra Sessions < <u>tsessions@logosresourcesllc.com</u>>; Robert Jordan

<riordan@logosresourcesllc.com>; Etta Trujillo <etrujillo@logosresourcesllc.com>

Subject: [EXT] RE: Rosa Unit 354A - Notification for final sampling

LOGOS is notifying BLM (Surface owner) and OCD two business days prior to conducting final sampling on the following well.

Date: March 11, 2021 (Thursday)

Time: 10:00am

Incident # ncs1929540748

API: 30-039-27832

Well Name: Rosa Unit 354A

Section: 19 Township: 31N Range: 4W Unit Letter: I

Thanks,

Marie E. Florez

mflorez@logosresourcesllc.com



From: Marie Florez

Sent: Wednesday, December 30, 2020 7:23 AM

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

<Brandon.Powell@state.nm.us>

Cc: Tamra Sessions < tsessions@logosresourcesllc.com >; Robert Jordan

<riordan@logosresourcesllc.com>

Subject: RE: Rosa Unit 354A - Notification for final sampling - Cancel

Cory,

LOGOS will need to cancel this until the ground thaws to take samples. We will keep you posted.

Thanks,

Marie E. Florez

mflorez@logosresourcesllc.com



From: Marie Florez

Sent: Tuesday, December 29, 2020 9:01 AM

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

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

Cc: Tamra Sessions < tsessions@logosresourcesllc.com >; Robert Jordan

<ri>rjordan@logosresourcesllc.com></ri>

Subject: Rosa Unit 354A - Notification for final sampling

Importance: High

LOGOS is notifying OCD two business days (including the Holiday) prior to conducting final sampling on the following well.

Date: January 4, 2021 (Monday)

Time: 12:00pm

Incident # ncs1929540748

API: 30-039-27832

Well Name: Rosa Unit 354A

Section: 19 Township: 31N Range: 4W Unit Letter: I

Thanks,

Marie E. Florez

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

mflorez@logosresourcesllc.com



Page 25 of 59 Form C-138 Revised August 1, 2011

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

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

DECLIEST FOR ADDROVAL TO ACCEPT SOLID WASTE

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE	
1. Generator Name and Address: LOGOS Operating, LLC	
2010 Afton Place, Farmington NM 87401	
2. Originating Site: Rosa Unit 354A	
API: 30-039-27832	
3. Location of Material (Street Address, City, State or ULSTR): Unit: I Section 19 T31N R4W	
4. Source and Description of Waste: Contaminated soil	
Estimated Volume 10 Yards yd ³ /bbls Known Volume (to be entered by the operator at the end of the haul) yd ³ /bbls	
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, Marie E. Florez , 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)	3
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous be characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Chec the appropriate items)	•
☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description in Box 4)	
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, Marie E. Florez , representative for LOGOS Operating, LLC 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.	S
5. Transporter:	
Various	
OCD Permitted Surface Waste Management Facility	
Name and Facility Permit #: Industrial Ecosystems INC. Permit # NM 01-0010B	
Address of Facility: 49 CR 3150 Aztec, NM 87410	
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: DATE:	
SIGNATURE: TELEPHONE NO.:	
Surface Waste Management Facility Authorized Agent	

LOGOS Operating, LLC Site Pictures Rosa Unit 354A Figure 1



Well Sign



Impacted Area 9/6/2019



Impacted Area 9/6/2019



Impacted Area 9/6/2019

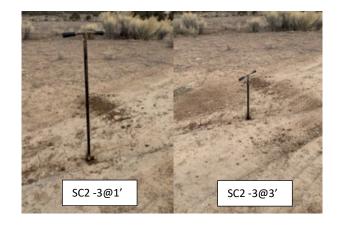
SS2 Area

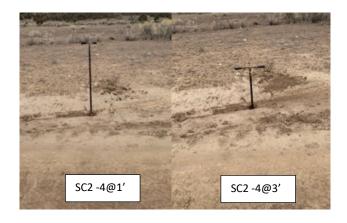
Delineation for Final Sample on 3/11/2021

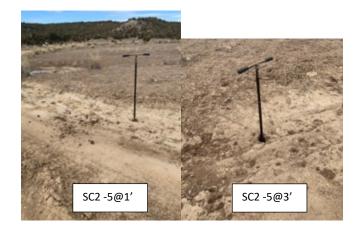
Passed











Remediated SS1 Area 4/8/2021





Remediate along SS1 path @ 2'.

Backfilled SS1 Area 4/28/2021







Report to:
Robert Jordan







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 Resources

Project Name: Rosa Unit 354A

Work Order: E103052

Job Number: 12035-0114

Received: 3/11/2021

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 3/18/21

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 NM00979 for data reported.

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

Date Reported: 3/18/21

Robert Jordan 2010 Afton Place Farmington, NM 87401



Project Name: Rosa Unit 354A

Workorder: E103052

Date Received: 3/11/2021 4:38:00PM

Robert Jordan,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/11/2021 4:38:00PM, under the Project Name: Rosa Unit 354A.

The analytical test results summarized in this report with the Project Name: Rosa Unit 354A 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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Sample Summary

Γ	Logos Resources	Project Name:	Rosa Unit 354A	P. 41
١	2010 Afton Place	Project Number:	12035-0114	Reported:
l	Farmington NM, 87401	Project Manager:	Robert Jordan	03/18/21 16:46

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SC-1 at 1'	E103052-01A Soil	03/11/21	03/11/21	Glass Jar, 4 oz.
SC-1 at 3'	E103052-02A Soil	03/11/21	03/11/21	Glass Jar, 4 oz.
SC-2 at 1'	E103052-03A Soil	03/11/21	03/11/21	Glass Jar, 4 oz.
SC-2 at 3'	E103052-04A Soil	03/11/21	03/11/21	Glass Jar. 4 oz.



Sample Data

Logos Resources	Project Name:	Rosa Unit 354A	
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Robert Jordan	3/18/2021 4:46:24PM

SC-1 at 1' E103052-01

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2112002
Benzene	ND	0.0250	1	1	03/15/21	03/15/21	
Toluene	ND	0.0250	1	1	03/15/21	03/15/21	
Ethylbenzene	ND	0.0250	1	1	03/15/21	03/15/21	
p,m-Xylene	ND	0.0500	1	1	03/15/21	03/15/21	
o-Xylene	ND	0.0250	1	1	03/15/21	03/15/21	
Total Xylenes	ND	0.0250	1	1	03/15/21	03/15/21	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		03/15/21	03/15/21	
Surrogate: Toluene-d8		101 %	70-130		03/15/21	03/15/21	
Surrogate: Bromofluorobenzene		89.8 %	70-130		03/15/21	03/15/21	
Nonhalogenated Organics by EPA 8015D - GRO		mg/kg		Analyst:	IY		Batch: 2112002
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	03/15/21	03/15/21	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		03/15/21	03/15/21	
Surrogate: Toluene-d8		101 %	70-130		03/15/21	03/15/21	
Surrogate: Bromofluorobenzene		89.8 %	70-130		03/15/21	03/15/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	НТ		Batch: 2112024
Diesel Range Organics (C10-C28)	ND	25.0	1	1	03/17/21	03/18/21	
Oil Range Organics (C28-C35)	ND	50.0	1	1	03/17/21	03/18/21	
Surrogate: n-Nonane		111 %	50-200		03/17/21	03/18/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	IY		Batch: 2112015
Chloride	878	20.0	1	1	03/17/21	03/17/21	



Sample Data

Logos Resources	Project Name:	Rosa Unit 354A	
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Robert Jordan	3/18/2021 4:46:24PM

SC-1 at 3' E103052-02

		E100002 02				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		nalyst: IY		Batch: 2112002
Benzene	ND	0.0250	1	03/15/21	03/15/21	Batch: 2112002
Toluene	ND	0.0250	1	03/15/21	03/15/21	
Ethylbenzene	ND	0.0250	1	03/15/21	03/15/21	
p,m-Xylene	ND	0.0500	1	03/15/21	03/15/21	
o-Xylene	ND	0.0250	1	03/15/21	03/15/21	
Total Xylenes	ND	0.0250	1	03/15/21	03/15/21	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	03/15/21	03/15/21	
Surrogate: Toluene-d8		103 %	70-130	03/15/21	03/15/21	
Surrogate: Bromofluorobenzene		90.8 %	70-130	03/15/21	03/15/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2112002
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/21	03/15/21	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	03/15/21	03/15/21	
Surrogate: Toluene-d8		103 %	70-130	03/15/21	03/15/21	
Surrogate: Bromofluorobenzene		90.8 %	70-130	03/15/21	03/15/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: HT		Batch: 2112024
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/21	03/18/21	
Oil Range Organics (C28-C35)	ND	50.0	1	03/17/21	03/18/21	
Surrogate: n-Nonane		110 %	50-200	03/17/21	03/18/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2112015

Sample Data

Logos Resources	Project Name:	Rosa Unit 354A	
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Robert Jordan	3/18/2021 4:46:24PM

SC-2 at 1' E103052-03

		2100002 00				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
				1	Milaryzea	
Volatile Organic Compounds by EPA 8260B	mg/kg mg/kg		A	nalyst: IY		Batch: 2112002
Benzene	ND	0.0250	1	03/15/21	03/16/21	
Toluene	ND	0.0250	1	03/15/21	03/16/21	
Ethylbenzene	ND	0.0250	1	03/15/21	03/16/21	
p,m-Xylene	ND	0.0500	1	03/15/21	03/16/21	
o-Xylene	ND	0.0250	1	03/15/21	03/16/21	
Total Xylenes	ND	0.0250	1	03/15/21	03/16/21	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	03/15/21	03/16/21	
Surrogate: Toluene-d8		101 %	70-130	03/15/21	03/16/21	
Surrogate: Bromofluorobenzene		90.5 %	70-130	03/15/21	03/16/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2112002
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/15/21	03/16/21	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	03/15/21	03/16/21	
Surrogate: Toluene-d8		101 %	70-130	03/15/21	03/16/21	
Surrogate: Bromofluorobenzene		90.5 %	70-130	03/15/21	03/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: HT		Batch: 2112024
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/21	03/18/21	
Oil Range Organics (C28-C35)	50.3	50.0	1	03/17/21	03/18/21	
Surrogate: n-Nonane		110 %	50-200	03/17/21	03/18/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: IY		Batch: 2112015
Chloride	406	20.0	1	03/17/21	03/17/21	

Sample Data

Logos Resources	Project Name:	Rosa Unit 354A	
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Robert Jordan	3/18/2021 4:46:24PM

SC-2 at 3' E103052-04

		E105052-04					
Analyte	Result	Reporting Limit	Dilut	tion D	repared	Analyzed	Notes
Analyte	Kesuit	Limit	Dilui	uon P	repared	Analyzeu	ivotes
Volatile Organic Compounds by EPA 8260B	mg/kg mg/kg		A	Analyst: IY			Batch: 2112002
Benzene	ND	0.0250	1	. 0	3/15/21	03/16/21	
Toluene	ND	0.0250	1	. 0	3/15/21	03/16/21	
Ethylbenzene	ND	0.0250	1	. 0	3/15/21	03/16/21	
p,m-Xylene	ND	0.0500	1	. 0	3/15/21	03/16/21	
o-Xylene	ND	0.0250	1	. 0	3/15/21	03/16/21	
Total Xylenes	ND	0.0250	1	. 0	3/15/21	03/16/21	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	0	3/15/21	03/16/21	
Surrogate: Toluene-d8		103 %	70-130	0	3/15/21	03/16/21	
Surrogate: Bromofluorobenzene		93.0 %	70-130	0	3/15/21	03/16/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY			Batch: 2112002
Gasoline Range Organics (C6-C10)	ND	20.0	1	. 0	3/15/21	03/16/21	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	0	3/15/21	03/16/21	
Surrogate: Toluene-d8		103 %	70-130	0	3/15/21	03/16/21	
Surrogate: Bromofluorobenzene		93.0 %	70-130	0	3/15/21	03/16/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: HT			Batch: 2112024
Diesel Range Organics (C10-C28)	ND	25.0	1	0	3/17/21	03/18/21	
Oil Range Organics (C28-C35)	ND	50.0	1	0	3/17/21	03/18/21	
Surrogate: n-Nonane		108 %	50-200	0	3/17/21	03/18/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY			Batch: 2112015
Chloride	98.1	20.0	1	. 0	3/17/21	03/17/21	_

Logos Resources	Project Name:	Rosa Unit 354A	Reported:
2010 Afton Place	Project Number:	12035-0114	·
Farmington NM, 87401	Project Manager:	Robert Jordan	3/18/2021 4:46:24PM
	XII	L L ED4 02 (0D	

Farmington NM, 87401		Project Manage	r: Ro	obert Jordan				3/1	.8/2021 4:46:24PM
	V	olatile Organ	ic Compo	unds by EI	PA 82601	В			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2112002-BLK1)						Pre	pared: 03/1	15/21 Analyz	red: 03/15/21
Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			
Surrogate: Bromofluorobenzene	0.441		0.500		88.2	70-130			
LCS (2112002-BS1)						Pre	pared: 03/1	15/21 Analyz	ed: 03/15/21
Benzene	2.29	0.0250	2.50		91.5	70-130			
Toluene	2.51	0.0250	2.50		100	70-130			
Ethylbenzene	2.49	0.0250	2.50		99.6	70-130			
p,m-Xylene	4.93	0.0500	5.00		98.6	70-130			
o-Xylene	2.47	0.0250	2.50		98.7	70-130			
Total Xylenes	7.40	0.0250	7.50		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			
Surrogate: Bromofluorobenzene	0.460		0.500		91.9	70-130			
Matrix Spike (2112002-MS1)				Sou	rce: E1030	053-03 Pre	pared: 03/1	15/21 Analyz	ed: 03/15/21
Benzene	2.06	0.0250	2.50	ND	82.6	48-131			
Toluene	2.18	0.0250	2.50	ND	87.4	48-130			
Ethylbenzene	2.17	0.0250	2.50	ND	86.9	45-135			
p,m-Xylene	4.36	0.0500	5.00	ND	87.1	43-135			
o-Xylene	2.16	0.0250	2.50	ND	86.4	43-135			
Total Xylenes	6.52	0.0250	7.50	ND	86.9	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.537		0.500		107	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			
Surrogate: Bromofluorobenzene	0.449		0.500		89.7	70-130			
Matrix Spike Dup (2112002-MSD1)				Sou	rce: E1030	053-03 Pre	pared: 03/1	15/21 Analyz	red: 03/15/21
Benzene	2.00	0.0250	2.50	ND	79.9	48-131	3.25	23	
Toluene	2.28	0.0250	2.50	ND	91.0	48-130	4.08	24	
Ethylbenzene	2.28	0.0250	2.50	ND	91.0	45-135	4.63	27	
p,m-Xylene	4.50	0.0500	5.00	ND	90.0	43-135	3.28	27	
o-Xylene	2.24	0.0250	2.50	ND	89.8	43-135	3.79	27	
Total Xylenes	6.75	0.0250	7.50	ND	90.0	43-135	3.45	27	
Surrogate: 1,2-Dichloroethane-d4	0.549		0.500		110	70-130			
Surrogate: Toluene-d8	0.529		0.500		106	70-130			
			0.500		0.7.7	70 120			



0.500

0.489

97.7

70-130

Surrogate: Bromofluor obenzene

Logos Resources Rosa Unit 354A Project Name: Reported: 2010 Afton Place Project Number: 12035-0114 Farmington NM, 87401 Project Manager: Robert Jordan 3/18/2021 4:46:24PM

Nonhalogenated Organics	by EPA 8015D - GRO
-------------------------	--------------------

Analyst: IY

Analyte Re	Reporting sult Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg	/kg mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

Analyte	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2112002-BLK1)						Pre	pared: 03/1	5/21 Analyze	ed: 03/15/21
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1,2-Dichloroethane-d4	0.512		0.500		102	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			
Surrogate: Bromofluorobenzene	0.441		0.500		88.2	70-130			
LCS (2112002-BS2)						Pre	pared: 03/1	5/21 Analyze	ed: 03/15/21
Gasoline Range Organics (C6-C10)	55.5	20.0	50.0		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.520		0.500		104	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.471		0.500		94.1	70-130			
Matrix Spike (2112002-MS2)				Sou	rce: E1030	053-03 Pre	pared: 03/1	5/21 Analyze	ed: 03/15/21
Gasoline Range Organics (C6-C10)	52.8	20.0	50.0	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.532		0.500		106	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			
Surrogate: Bromofluorobenzene	0.455		0.500		91.0	70-130			
Matrix Spike Dup (2112002-MSD2)				Sou	rce: E1030	053-03 Pre	pared: 03/1	5/21 Analyze	ed: 03/15/21
Gasoline Range Organics (C6-C10)	49.8	20.0	50.0	ND	99.6	70-130	5.79	20	
Surrogate: 1,2-Dichloroethane-d4	0.547		0.500		109	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.464		0.500		92.7	70-130			



Logos Resources	Project Name:	Rosa Unit 354A	Reported:
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Robert Jordan	3/18/2021 4:46:24PM

Farmington NM, 8/401		Project Manage	r: Ko	bert Jordan					5/18/2021 4:46:24PM
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: HT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2112024-BLK1)						Pre	pared: 03/	17/21 Anal	yzed: 03/17/21
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	54.0		50.0		108	50-200			
LCS (2112024-BS1)						Pre	pared: 03/	17/21 Anal	yzed: 03/17/21
Diesel Range Organics (C10-C28)	470	25.0	500		94.1	38-132			
Surrogate: n-Nonane	50.9		50.0		102	50-200			
Matrix Spike (2112024-MS1)				Sou	rce: E103	053-06 Pre	pared: 03/	17/21 Anal	yzed: 03/17/21
Diesel Range Organics (C10-C28)	524	25.0	500	ND	105	38-132			
Surrogate: n-Nonane	55.5		50.0		111	50-200			
Matrix Spike Dup (2112024-MSD1)				Sou	rce: E103	053-06 Pre	pared: 03/	17/21 Anal	yzed: 03/17/21
Diesel Range Organics (C10-C28)	492	25.0	500	ND	98.5	38-132	6.13	20	
Surrogate: n-Nonane	51.9		50.0		104	50-200			



Chloride

Chloride

Matrix Spike Dup (2112015-MSD1)

M1

QC Summary Data

Logos Resources 2010 Afton Place Farmington NM, 87401		Project Name: Project Number: Project Manager	: 1	Rosa Unit 354A 12035-0114 Robert Jordan				2	Reported: //18/2021 4:46:24PM
Fairmington NW, 87401				300.0/9056A	A				Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2112015-BLK1)						Pre	pared: 03/1	17/21 Analy	yzed: 03/17/21
Chloride	ND	20.0							
LCS (2112015-BS1)						Pre	pared: 03/1	17/21 Analy	yzed: 03/17/21
Chloride	249	20.0	250		99.7	90-110			
Matrix Spike (2112015-MS1)				Sou	rce: E103	052-01 Pre	pared: 03/1	17/21 Analy	zed: 03/17/21

250

250

20.0

20.0

878

878

107

139

80-120

80-120

Source: E103052-01 Prepared: 03/17/21 Analyzed: 03/17/21

6.64

1150

1220

QC Summary Report Comment:

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



Definitions and Notes

Logos Resources	Project Name:	Rosa Unit 354A	
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Robert Jordan	03/18/21 16:46

M1 Matrix spike recovery was above acceptance 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

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.



Page 44 of 59

		•			1
		P	age <u>1</u>	_ of _	Receive
AT	EF	PA Progra	ım	1	d by
3D	RCRA	CWA	SDWA		ОСБ
		Sta	l		

												,							*	
Project In	formation					Cha	ain of Custody				5,7	forc	Porg						1	Page <u>1</u>
Client:	LOGOS Reso	nurces II	IIC			Bill To				l a	h Hs	e On	lv			TA	т		PA Progr	ram
act vivi limit	Rosa Unit	Service Survivor	, LLC			Attention: Robert Jordan		Lab	WO#				Numb	er	-	ID I		RCRA	CWA	SDW
	Manager: Ro		dan			Address: 2010 Afton Place		D'C	- 10	enc	-	ואר	35	NO		1	-	Henry	CWA	35 117
0.0000000	2010 Afto		uaii	5		City, State, Zip Farmington	NM 87401		13/11				sis and						5	tate
	e, Zip Farm		UNA 07401			Phone: 505-324-4145	14141 07401	-	131	104		Allaly	313 0110	T	T		\neg			D UT A
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	505-320-139		11			Email: etrujillo@logosresource		015	8015								- 1	- 1	TV	
	ordan@logo	sresour	cesilc.com			tsessions@logosresourcesllc.co		by 8	by 8	171	90	9	00.0	į		- 1			TX OI	K
Report d	ue by:					mflorez@logosresourcesllc.com		8	8	y 80	/ 82	09	le 3		- 1		- 1			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID			Lab Number	DRO/ORO by 8015	GRO/DRO by	ВТЕХ ЬУ 802:	VOC by 8260	Metals 6010	Chloride 300.0						Re	emarks
10:00am	3/11/2021	S	1-4oz jai	SC-1 at 1			1	х	х	х			х							
10:00am	3/11/2021	S	1-4oz jai	SC-1 at 3	} '		2	х	х	х			х							
10:00am	3/11/2021	S		SC-2 at 1			3	х	х	х			х		7					ET.
10:00am	3/11/2021	S		SC-2 at 3			4	х	х	х			х							
																7				
														1		1				
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			-						-					4	-	-				
							432													
Addition	al Instruction	ns:												!						
						pering with or intentional mislabelling the same	Docation, date or					Selection (Section)			*************				ne day they are s n subsequent da	0.0000000000000000000000000000000000000
	tion is considered t		100000		T		and the second second		T _T :	8	-					100000		- 0 1		
Relinquisto	ed by Signatu	re)-	Date 03	11/8021	Time 4:37	Received/by: (Signature)	3/11/	21	Time	2:3	8	Rece	eived	on ic	e: (1	b Us / N	e Only		
Relinquish	ed by: (Signatu	re)	Date		Time	Received by: (Signature)	Date		Time			T1				T2			T3	
Relinquish	ed by: (Signatu	re)	Date		Time	Received by: (Signature)	Date		Time				Temp	°C	4	12			13	
Sample Mat	riv: C - Soil Cd C	olid Sa Cl	udge A - Acu	anus O - O+b			Containe	r Type	P. 6 - 6	alass	n - n/				mber	place	5. V - '	VOA		
	rix: S - Soil, Sd - S					ngements are made. Hazardous samples wi													o camples !-	applicable



envirotech Inc.

Printed: 3/12/2021 1:51:23PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

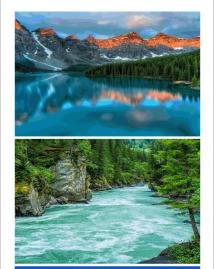
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Logos Resources	Date Received:	03/11/21	16:38		Work Order ID:	E103052
Phone:	(505) 320-1395	Date Logged In:	03/12/21	13:47		Logged In By:	Alexa Michaels
Email:	rjordan@logosresourcesllc.com	Due Date:		17:00 (5 day TAT)		88	
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: (Chase Polledo		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes		<u> </u>		
	Il samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssic	•				Comment	s/Resolution
Sample T	urn Around Time (TAT)						
6. Did the	COC indicate standard TAT, or Expedited TAT?		No				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes, v	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
	were custody/security seals intact?		NA				
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling		Yes				
13. If no v	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample C	Container						
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?	P	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	el						
	— field sample labels filled out with the minimum info	rmation:					
	ample ID?		Yes				
D	ate/Time Collected?		Yes				
C	ollectors name?		Yes				
	<u>reservation</u>						
	the COC or field labels indicate the samples were pr	eserved?	No				
	imple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does t	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	imples required to get sent to a subcontract laborator	rv?	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lal	h· NA		
				Subcontract East	0.1111		
Chent in	<u>istruction</u>						

Date

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

Report to:
Robert Jordan







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 Resources

Project Name: Rosa Unit 354A

Work Order: E104098

Job Number: 12035-0114

Received: 4/21/2021

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/28/21

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 NM00979 for data reported.

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

Date Reported: 4/28/21

Robert Jordan 2010 Afton Place Farmington, NM 87401

Project Name: Rosa Unit 354A

Workorder: E104098

Date Received: 4/21/2021 4:58:00PM

Robert Jordan,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/21/2021 4:58:00PM, under the Project Name: Rosa Unit 354A.

The analytical test results summarized in this report with the Project Name: Rosa Unit 354A 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

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Cell: 775-287-1762

whinchman@envirotech-inc.com

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Laboratory Administrator Office: 505-632-1881

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Alexa Michaels

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Lynn Estes

Technical Representative/Client Services

Office: 505-421-LABS(5227)

Cell: 505-320-4759

lestes@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
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Sample Summary

-				
I	Logos Resources	Project Name:	Rosa Unit 354A	Reported:
١	2010 Afton Place	Project Number:	12035-0114	Keporteu.
l	Farmington NM, 87401	Project Manager:	Robert Jordan	04/28/21 11:48

Client Sample ID	Lab Sample ID Mat	trix Sampled	Received	Container
SB-1-grab sample	E104098-01A So	oil 04/21/21	04/21/21	Glass Jar, 4 oz.



Sample Data

Logos Resources	Project Name:	Rosa Unit 354A	
2010 Afton Place	Project Number:	12035-0114	Reported:
Farmington NM, 87401	Project Manager:	Robert Jordan	4/28/2021 11:48:45AM

SB-1-grab sample E104098-01

		E104098-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2117026
Benzene	ND	0.0250	1	04/22/21	04/26/21	Batem 2117 020
Ethylbenzene	ND	0.0250	1	04/22/21	04/26/21	
Toluene	ND	0.0250	1	04/22/21	04/26/21	
o-Xylene	ND	0.0250	1	04/22/21	04/26/21	
p,m-Xylene	ND	0.0500	1	04/22/21	04/26/21	
Total Xylenes	ND	0.0250	1	04/22/21	04/26/21	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	04/22/21	04/26/21	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2117026
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/22/21	04/26/21	
Surrogate: 1-Chloro-4-fluorobenzene-FID		103 %	70-130	04/22/21	04/26/21	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: HT		Batch: 2117034
Diesel Range Organics (C10-C28)	ND	25.0	1	04/23/21	04/24/21	
Oil Range Organics (C28-C35)	ND	50.0	1	04/23/21	04/24/21	
Surrogate: n-Nonane		99.4 %	50-200	04/23/21	04/24/21	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: RAS		Batch: 2117032
Chloride	64.2	20.0	1	04/23/21	04/23/21	



		₹ € ≈		ar j Data					
Logos Resources		Project Name:	R	osa Unit 354A					Reported:
2010 Afton Place		Project Number:	12	2035-0114					
Farmington NM, 87401		Project Manager:	R	obert Jordan				4/	28/2021 11:48:45AM
		Volatile O	rganics l	by EPA 8021	В				Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2117026-BLK1)						Pre	pared: 04/2	22/21 Analy	zed: 04/26/21
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Foluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Fotal Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.39		8.00		92.3	70-130			
LCS (2117026-BS1)						Pre	pared: 04/2	22/21 Analy	zed: 04/26/21
Benzene	4.87	0.0250	5.00		97.4	70-130			
thylbenzene	4.80	0.0250	5.00		95.9	70-130			
oluene	5.00	0.0250	5.00		100	70-130			
-Xylene	4.96	0.0250	5.00		99.3	70-130			
o,m-Xylene	9.78	0.0500	10.0		97.8	70-130			
otal Xylenes	14.7	0.0250	15.0		98.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.7	70-130			
Matrix Spike (2117026-MS1)				Sourc	ce: E104	094-01 Pre	pared: 04/2	22/21 Analy	zed: 04/26/21
Benzene	5.04	0.0250	5.00	ND	101	54-133			
thylbenzene	4.91	0.0250	5.00	ND	98.2	61-133			
oluene	5.14	0.0250	5.00	ND	103	61-130			
-Xylene	5.07	0.0250	5.00	ND	101	63-131			
,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
otal Xylenes	15.1	0.0250	15.0	ND	100	63-131			
Gurrogate: 4-Bromochlorobenzene-PID	7.36		8.00	<u></u>	91.9	70-130			
Matrix Spike Dup (2117026-MSD1)				Sourc	ce: E104	094-01 Pre	pared: 04/2	22/21 Analy	zed: 04/26/21
Benzene	4.96	0.0250	5.00	ND	99.2	54-133	1.50	20	
Ethylbenzene	4.83	0.0250	5.00	ND	96.6	61-133	1.69	20	
Coluene	5.05	0.0250	5.00	ND	101	61-130	1.81	20	
p-Xylene	4.99	0.0250	5.00	ND	99.9	63-131	1.46	20	
37.1	0.94	0.0500	10.0	ND	09.4	62 121	1.70	20	

10.0

15.0

8.00

0.0500

0.0250

ND

ND

98.4

98.9

92.4

63-131

63-131

70-130

1.70

1.62

20

20



p,m-Xylene Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

9.84

14.8

7.39

Surrogate: 1-Chloro-4-fluorobenzene-FID

QC Summary Data

Logos Resources	Project Name:	Rosa Unit 354A	Reported:
2010 Afton Place	Project Number:	12035-0114	·
Farmington NM, 87401	Project Manager:	Robert Jordan	4/28/2021 11:48:45AM

Farmington NM, 87401		Project Manage	r: Ro	bert Jordan				4/2	8/2021 11:48:45AM	
	Non	halogenated	Organics l	by EPA 80	15D - G	RO		Analyst: RKS		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2117026-BLK1)						Pre	pared: 04/2	22/21 Analyz	ed: 04/26/21	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.48		8.00		106	70-130				
LCS (2117026-BS2)						Pre	pared: 04/2	22/21 Analyz	ed: 04/26/21	
Gasoline Range Organics (C6-C10)	50.5	20.0	50.0		101	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.38		8.00		105	70-130				
Matrix Spike (2117026-MS2)				Sou	rce: E104	094-01 Pre	pared: 04/2	22/21 Analyz	ed: 04/26/21	
Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.51		8.00		106	70-130				
Matrix Spike Dup (2117026-MSD2)				Sou	rce: E104	0 94-01 Pre	pared: 04/2	22/21 Analyz	ed: 04/26/21	
Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	ND	105	70-130	0.874	20		

70-130

Logos ResourcesProject Name:Rosa Unit 354AReported:2010 Afton PlaceProject Number:12035-0114Farmington NM, 87401Project Manager:Robert Jordan4/28/2021 11:48:45AM

Turnington 1444, 07 101		1 Toject Wanage							
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: HT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2117034-BLK1)						Pre	pared: 04/2	23/21 Analy:	zed: 04/23/21
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	50.6		50.0		101	50-200			
LCS (2117034-BS1)						Pre	epared: 04/2	23/21 Analy	zed: 04/23/21
Diesel Range Organics (C10-C28)	515	25.0	500		103	38-132			
Surrogate: n-Nonane	47.8		50.0		95.6	50-200			
Matrix Spike (2117034-MS1)				Sou	rce: E104	0 94-04 Pre	epared: 04/2	23/21 Analy	zed: 04/23/21
Diesel Range Organics (C10-C28)	530	25.0	500	ND	106	38-132			
Surrogate: n-Nonane	48.8		50.0		97.6	50-200			
Matrix Spike Dup (2117034-MSD1)				Sou	rce: E104	0 94-04 Pre	epared: 04/2	23/21 Analy	zed: 04/23/21
Diesel Range Organics (C10-C28)	528	25.0	500	ND	106	38-132	0.248	20	
Surrogate: n-Nonane	49.3		50.0		98.6	50-200			

Matrix Spike Dup (2117032-MSD1)

Chloride

301

QC Summary Data

Logos Resources 2010 Afton Place Farmington NM, 87401		Project Name: Project Number: Project Manager	: 12	osa Unit 354A 2035-0114 obert Jordan				4,	Reported: /28/2021 11:48:45AM
		Anions	by EPA	300.0/9056 <i>A</i>	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 (2117032-BLK1)						Pre	pared: 04/2	23/21 Analy	vzed: 04/23/21
Chloride	ND	20.0							
LCS (2117032-BS1)						Pre	pared: 04/2	23/21 Analy	vzed: 04/23/21
Chloride	243	20.0	250		97.1	90-110			
Matrix Spike (2117032-MS1)				Sour	rce: E104	0 94-01 Pre	pared: 04/2	23/21 Analy	vzed: 04/23/21
Chloride	289	20.0	250	44.2	98.1	80-120			

250

20.0

44.2

103

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.



Source: E104094-01 Prepared: 04/23/21 Analyzed: 04/23/21

3.80

20

80-120

Definitions and Notes

ſ	Logos Resources	Project Name:	Rosa Unit 354A	
١	2010 Afton Place	Project Number:	12035-0114	Reported:
l	Farmington NM, 87401	Project Manager:	Robert Jordan	04/28/21 11:48

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.



Bill To

City, State, Zip Farmington NM 87401

Email: etrujillo@logosresourcesllc.com

tsessions@logosresourcesllc.com

mflorez@logosresourcesllc.com

Attention: Robert Jordan

Phone: 505-324-4145

Address: 2010 Afton Place

Client: LOGOS Resources II, LLC

Project Manager: Robert Jordan

City, State, Zip Farmington, NM 87401

Email: rjordan@logosresourcesllc.com

Matrix

Containers

1-4oz iar

Sample ID

SB - 1 - grab sample

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

Project: Rosa Unit 354A

Phone: 505-320-1395

Report due by:

Time

Sampled

10:00am

Address: 2010 Afton Place

Date Sampled

4/21/2021

Additional Instructions:

SDWA

EPA Program

CWA

TX OK

State NM CO UT AZ

Remarks

TAT

RCRA

1D 3D

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	7 7 7 7	•

Page 56 of 59

elipquished by: (Signature)	Jate 4 21 21	Time 4!55pm	Received by: (Signature)	Date 421/21	Time 1(0:58	Received on ice:	Lab Use Only Y N	
elinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time		\bigcup	
						T1	<u>T2</u>	<u>T3</u>
elinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C	4	
imple Matrix: S - Soil, Sd - Solid, Sg - Sludge, A	- Aqueous, O - Oth	er		Container Type	e: g - glass, p - po	oly/plastic, ag - amb	er glass, v - VOA	
ote: Samples are discarded 30 days after resul			하다 어느님이 아마님이 있다면 가는 그리는 그리는 아니라 아이들이 보는 아이들이 아니는 그를 잃었다면 하고 있다.		sposed of at the clie	nt expense. The report f	or the analysis of the above	e samples is applicable
nly to those samples received by the laborator	ry with this COC. TI	ne liability of the lab	oratory is limited to the amount paid for on the	he report.				

time of collection is considered fraud and may be grounds for legal action. Sampled by:

Lab Use Only

Am 4/21/21 Analysis and Method

Job Number

Chloride 300.0

X

12035-0114

Lab WO#

DRO/ORO by 8015 GRO/DRO by 8015

X X X

Lab

Number

PEIOHO98

BTEX by 8021

VOC by 8260 Metals 6010

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

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Logos Resources	Date Received:	04/21/21	16:58		Work Order ID:	E104098
Phone:	(505) 320-1395	Date Logged In:	04/22/21	14:44		Logged In By:	Alexa Michaels
Email:	rjordan@logosresourcesllc.com	Due Date:	04/28/21	17:00 (5 day TAT)			
Cl! C	Contrador (COC)						
	Custody (COC)		37				
	ne sample ID match the COC? The number of samples per sampling site location mat	ah tha COC	Yes				
		ch the COC	Yes				
	amples dropped off by client or carrier?	4-419	Yes Yes	Carrier: N	Marie Florez		
	e COC complete, i.e., signatures, dates/times, reques	ated analyses?					
5. were a	Il 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 disucssion	•	Yes			Comment	s/Resolution
Sample T	Curn Around Time (TAT)						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		No				
Sample C							
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	, were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
	Container	temperature. 1	<u> </u>				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers.)	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lat		iers conceted.	103				
	field sample labels filled out with the minimum info	rmation:					
	ample ID?	imation.	Yes				
	ate/Time Collected?		Yes				
C	ollectors name?		No				
Sample P	reservation_						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	, does the COC specify which phase(s) is to be analy	zed?	NA				
	act Laboratory						
	amples required to get sent to a subcontract laborator	m19	No				
	subcontract laboratory specified by the client and if	•	NA	Subcontract Lab	NI A		
		so who:	INA	Subcontract Lat); NA		
Client Ir	<u>nstruction</u>						

Date

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

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

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

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

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

COMMENTS

Action 32542

COMMENTS

Operator:	OGRID:
LOGOS OPERATING, LLC	289408
2010 Afton Place	Action Number:
Farmington, NM 87401	32542
	Action Type:
	[C-141] Release Corrective Action (C-141)

COMMENTS

Created	Comment	Comment
Ву		Date
nvelez	As a reminder, any future releases MUST follow the timelines specified within 19.15.29 NMAC regardless of changes in personnel or any circumstance that an operator deems justifiable in delaying the require notifications to OCD.	1/21/2022

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CONDITIONS

Created By		Condition Date
nvelez	None	1/21/2022