Nelson Velez
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

Incident # **nAPP2322350630**

The CJ Holder 500S is in Unit L, Section 31, Township 29 North, Range 13 West, San Juan County, New Mexico.

RE: The cause of the release was determined that the water transfer line was cracked and resulted in the release inside the lined berm area, however the release overtopped the berm. The estimated release volume was 62 BBLS and 60 BBLS were recovered via water truck.

Dear Mr. Velez,

When the release was discovered, was determined that the water transfer line cracked and resulted in the release inside the lined berm area, however the release overtopped the lined bermed area.

The release size was 15'x50'X2'.90% of the release area was contained to the lined bermed area although there were small inclusions in the liner LOGOS elected to remove the liner inside the containment to remediate. All standing liquid and impacted soil has
been removed and the area impacted has been remediated by removing the impacted soil. LOGOS will follow 19.15.29 when remediation occurs.

The CJ Holder is in the San Juan Basin. The Soil lithology from the Natural Resources Conservation Service Soil Survey map describes the soil as the fine sandy loam on the first 20 inches followed by bedrock. The attached sitting criteria demonstrates that the area is not within a floodplain or wetlands nor over a karst and the depth to ground water is greater than 100' bgs, however the original final C-141 was submitted with a refence of depth to ground water being between 50-100'.

On August 27, 2023, LOGOS remediated by dig and haul and removed 24 cubic yards of impacted soil and transported to Envirotech Landfarm. At this time the location appeared to be remediated and was shut in and secured until final confirmation sampling.

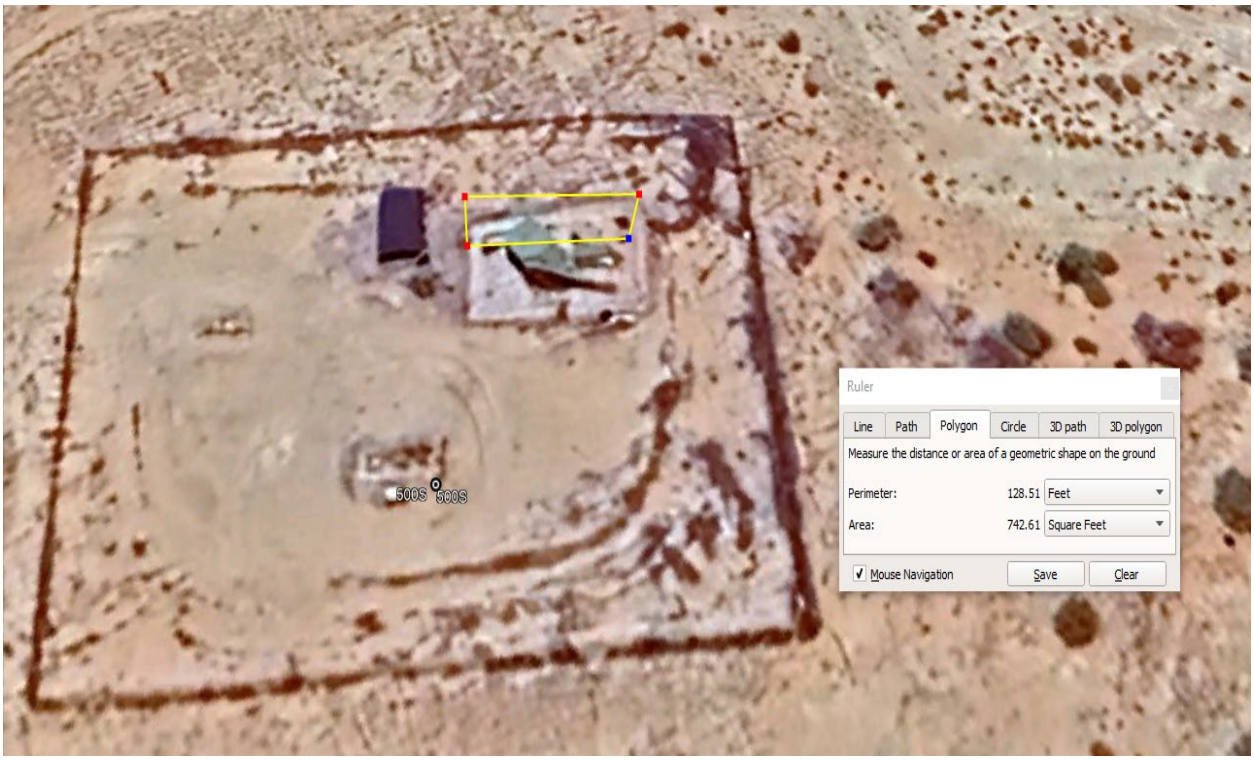
On Wednesday November 29, 2023, LOGOS contacted NMOCD and BLM to conduct final confirmation sampling via email attached for final confirmation sampling on Friday December 1, 2023. The sampling event was cancelled due to snow and the OCD and BLM were notified via phone and email.

LOGOS rescheduled the final confirmation sampling for Thursday December 7, 2023. A representative from the NMOCD nor the BLM were present at the confirmation sampling. 4 (5)- point confirmation samples were collected from excavated areas. The sampling area was 1,500 sqft in size (4) 400 sqft (5)-point confirmation samples were collected from excavated areas. The sampling size was approved verbally by the OCD and BLM via phone. No odor or staining was observed during the sampling event. The sample results were below regulatory standards in all constituents other than what was to be chlorides. Please refer to Table 1 for analytical results. After further reviewing the closure standards at this time the samples were below regulatory standards and should have been closed.

Table I
Closure Criteria for Soils Impacted by a Release

Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 C1 B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 C1 B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 C1 B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Sample Area


Ruler
Line
Path
Polygon
Circle
3D path
3D polygon
Measure the distance or area of a geometric shape on the ground
Perimeter: 128.51 Feet
Area: 742.61 Square Feet
Mouse Navigation
Save
Clear

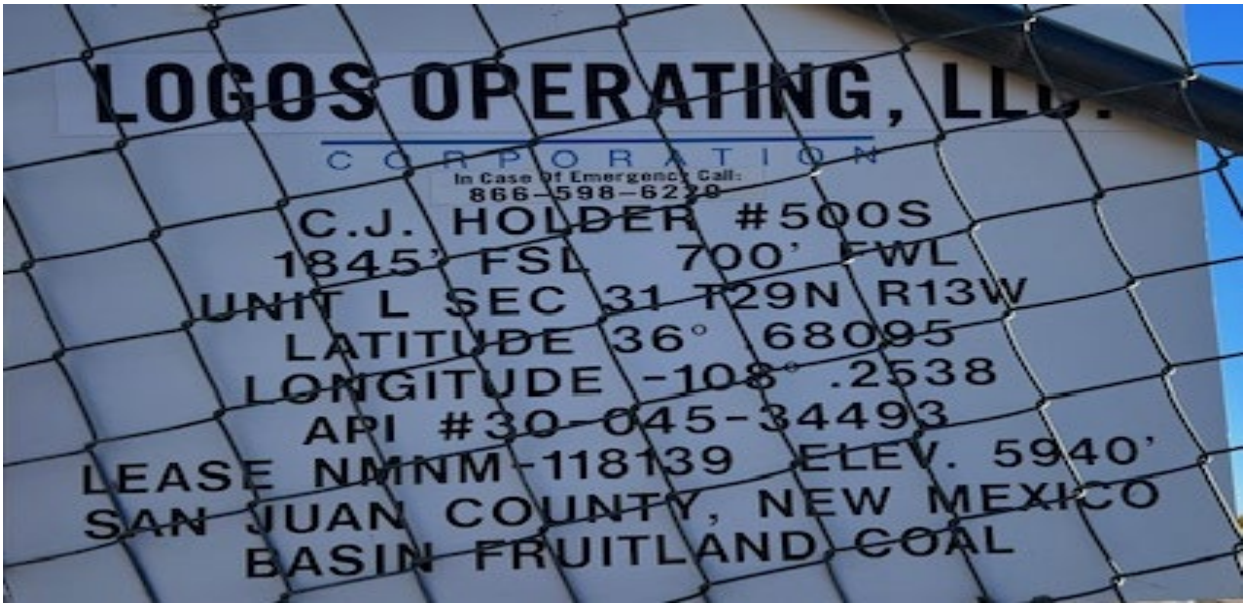

SB 3
SB 2
SB 4
SB1
36.6809387,-108.2504044

Table 1

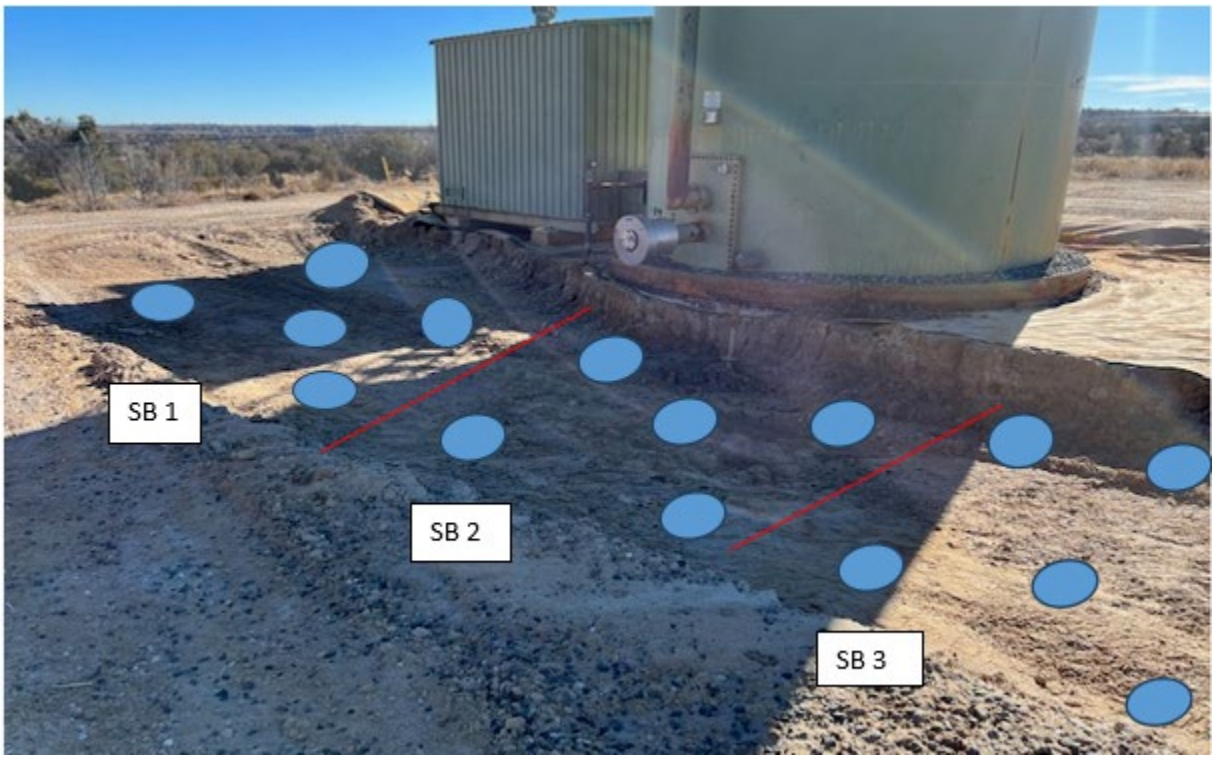
12/08/2023 Analytical Results								
Sample Description	Date 12/07/2023	Sample Depth See below	EPA Method 8015		EPA Method 8021		EPA Method 300.0	
			GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
19.15.29.13 (D) NMAC			1000 mg/kg			10 mg/kg	50 mg/kg	600 mg/kg
19.15.29.12 NMAC			1000 mg/kg					20,000 mg/kg
			2500 mg/kg					
SB-1 @ 2'	12/07/2023	2 'bgs	ND	ND	ND	ND	ND	6,440
SB-2 @ 2'	12/07/2023	2 'bgs	ND	ND	ND	ND	ND	15,300
SB-3 @ 2'	12/07/2023	2 'bgs	ND	ND	ND	ND	ND	13,000
SB-4 @ 2'	12/07/2023	2 'bgs	ND	ND	ND	ND	ND	9,070

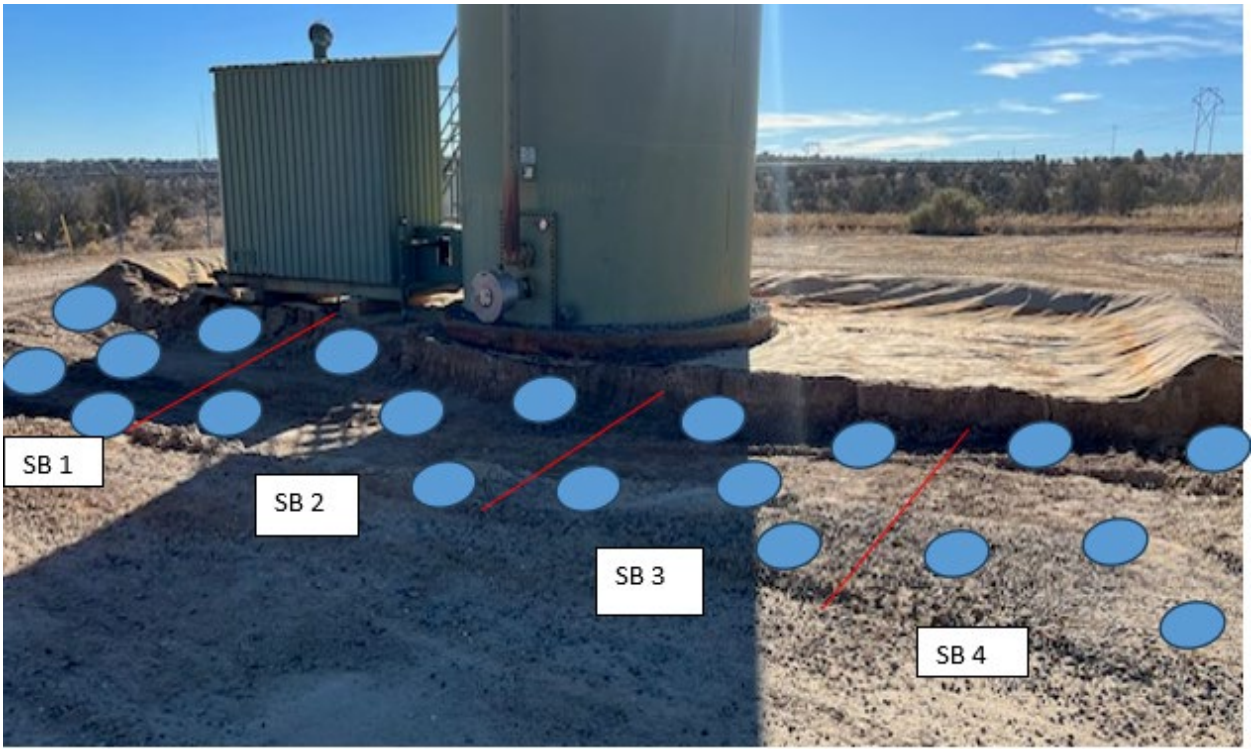
= Sample points to 2' bgs

The samples that were collected were placed into individual laboratory 4-ounce jars, capped head space free and transported on ice to Envirotech. The samples were analyzed for TPH (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.



Sample photos from 12/7/2023 All confirmation samples were collected 6” bgs





After review of the analytical results from December 7, 2023, sampling event LOGOS believed two of the analytical results to be above regulatory standards, however the closure standard is 20,000 mg/kg for chloride levels. LOGOS sought a gypsum treatment plan that was verbally approved by Abeloye Abiodun (Emmanual) with the BLM. At this time LOGOS reached out to the NMOCD for approval. (all emails enclosed) On January 12, 2024, LOGOS spoke via phone call with the OCD, and it was determined to collect (2) 5- point composite samples to 4" bgs to determine the extent of chloride. The sampling event was approved to only analyze the soil for chlorides and no other constituents. The delay in sampling and extension from the OCD was due to weather events.

Delineation testing

On March 16, 2024, LOGOS conducted delineation sampling approved by the NMOCD and BLM of the extent of the referenced release area. A backhoe was utilized to collect (2) 5-point composite samples that extended to 4' Bgs. No evidence of any impacts were identified during the sampling process. Sample results were below regulatory standards, and the borings were backfilled natural to grade. The site was backfilled and returned to production. LOGOS is seeking remediation closure at this time.

LOGOS delineated the area to 4' Bgs to determine the extent of the chloride concentration.

● = *Delineation points to 4' Bgs Sample Results were below regulatory standards.*

12/08/2023 Analytical Results								
Sample Description	**Date 3/20/2024**	**Sample Depth See below**	**EPA Method 8015**		**EPA Method 8021**		**EPA Method 300.0**	
			GRO (mg/kg)	**DRO (mg/kg)**	**ORO (mg/kg)**	**Benzene (mg/kg)**	**Total BTEX (mg/kg)**	**Chlorides (mg/kg)**
19.15.29.13 (D) NMAC			1000 mg/kg			10 mg/kg	50 mg/kg	600 mg/kg
19.15.29.12 NMAC			1000 mg/kg					10,000 mg/kg
			2500 mg/kg					
SB-1 @ 4'	3/19/2024	4 'bgs	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	3,500 mg/kg
SB-2 @ 4'	3/19/2024	4 'bgs	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	3,770 mg/kg

Sample Photos

Sample areas below demonstrate a 400 sq feet sampling area with 5 composite samples collected at each area at 2’ bgs.

Delineation Photos

SB #001 4’ BGS

SB #001 4’ BGS

Delineation Photos

SB #002 4’ BGS

SB #002 4’ BGS

Backfilled Photos

Backfilled Photos

Thank you,

Vanessa Fields

Regulatory Manager

Email: vfields@logosresourcesllc.com

Office: 505-787-2218

Cell: 505-320-1243

LOGOS OPERATING

District I
1625 N French Dr , Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr , Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

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

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office
For downstream facilities, submit to Santa Fe office.

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: Energen Resources Telephone: 505.325.6800 e-mail address: vdonaghe@energen.com
Address: 2010 Afton Place - Farmington, NM 87401
Facility or well name: C. J. Holder #501 API #: 30-045-34518 U/L or Qtr/Qtr E Sec 31 T 29N R 13W
County: San Juan Latitude 36.68534 Longitude -108.24989 NAD. 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

Pit	**Below-grade tank**		
Type: Drilling ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☒ Unlimited ☐ Liner type: Synthetic ☐ Thickness 12 mil Clay ☐ Pit Volume _____ bbl	Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes ☐ If not, explain why not. _____		
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)		Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points) 0
Wellhead protection area. (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)		Yes No	(20 points) (0 points) 0
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)		Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) 10 (0 points)
		Ranking Score (Total Points)	10

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location (check the onsite box if you are burying in place) onsite ☐ offsite ☐ If offsite, name of facility _____ (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface _____ ft. and attach sample results (5) Attach soil sample results and a diagram of sample locations and excavations

Additional Comments:
Reference site diagram for pit location in the approved APD.

RCVD MAY 27 '08
OIL CONS. DIV.
DIST. 3

Closed 05/16/08

I hereby certify that the information above is true and complete to the best of my knowledge and belief **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Date: 05/20/08

Printed Name/Title: Perry Kirk - Construction Foreman Signature: Perry Kirk

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations

Approval.
Date: JUN 0 2 2008
Printed Name/Title: Deputy Oil & Gas Inspector, District #3 Signature:

San Juan County, New Mexico, Eastern Part

FA—Farb-Persayo-Rock outcrop complex, moderately steep

Map Unit Setting

National map unit symbol: 1wwp
Elevation: 5,200 to 6,400 feet
Mean annual precipitation: 6 to 10 inches
Mean annual air temperature: 51 to 55 degrees F
Frost-free period: 140 to 160 days
Farmland classification: Not prime farmland

Map Unit Composition

Farb and similar soils: 40 percent
Persayo and similar soils: 30 percent
Rock outcrop: 20 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Farb

Setting

Landform: Hills, breaks
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Head slope, nose slope, side slope, crest
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from sandstone

Typical profile

A - 0 to 7 inches: fine sandy loam
Ck - 7 to 10 inches: sandy loam
R - 10 to 20 inches: bedrock

Properties and qualities

Slope: 3 to 30 percent
Depth to restrictive feature: 5 to 20 inches to lithic bedrock
Drainage class: Excessively drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 2 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water supply, 0 to 60 inches: Very low (about 1.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R035XB006NM - Shallow
Hydric soil rating: No

Description of Persayo

Setting

Landform: Ridges, hills, breaks
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, head slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from shale

Typical profile

A - 0 to 2 inches: clay loam
C - 2 to 15 inches: clay loam
Cr - 15 to 20 inches: bedrock

Properties and qualities

Slope: 3 to 30 percent
Depth to restrictive feature: 5 to 20 inches to paralithic bedrock
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 2 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to moderately saline (0.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R035XA130NM - Shale Hills 10-14"p.z.
Hydric soil rating: No

Description of Rock Outcrop

Typical profile

R - 0 to 60 inches: bedrock

Properties and qualities

Slope: 10 to 30 percent
Depth to restrictive feature: 0 inches to lithic bedrock
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 in/hr)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: No

Minor Components

Doak

Percent of map unit: 5 percent
Ecological site: R035XB004NM - Clayey
Hydric soil rating: No

Stumble

Percent of map unit: 5 percent
Ecological site: R035XB002NM - Sandy
Hydric soil rating: No

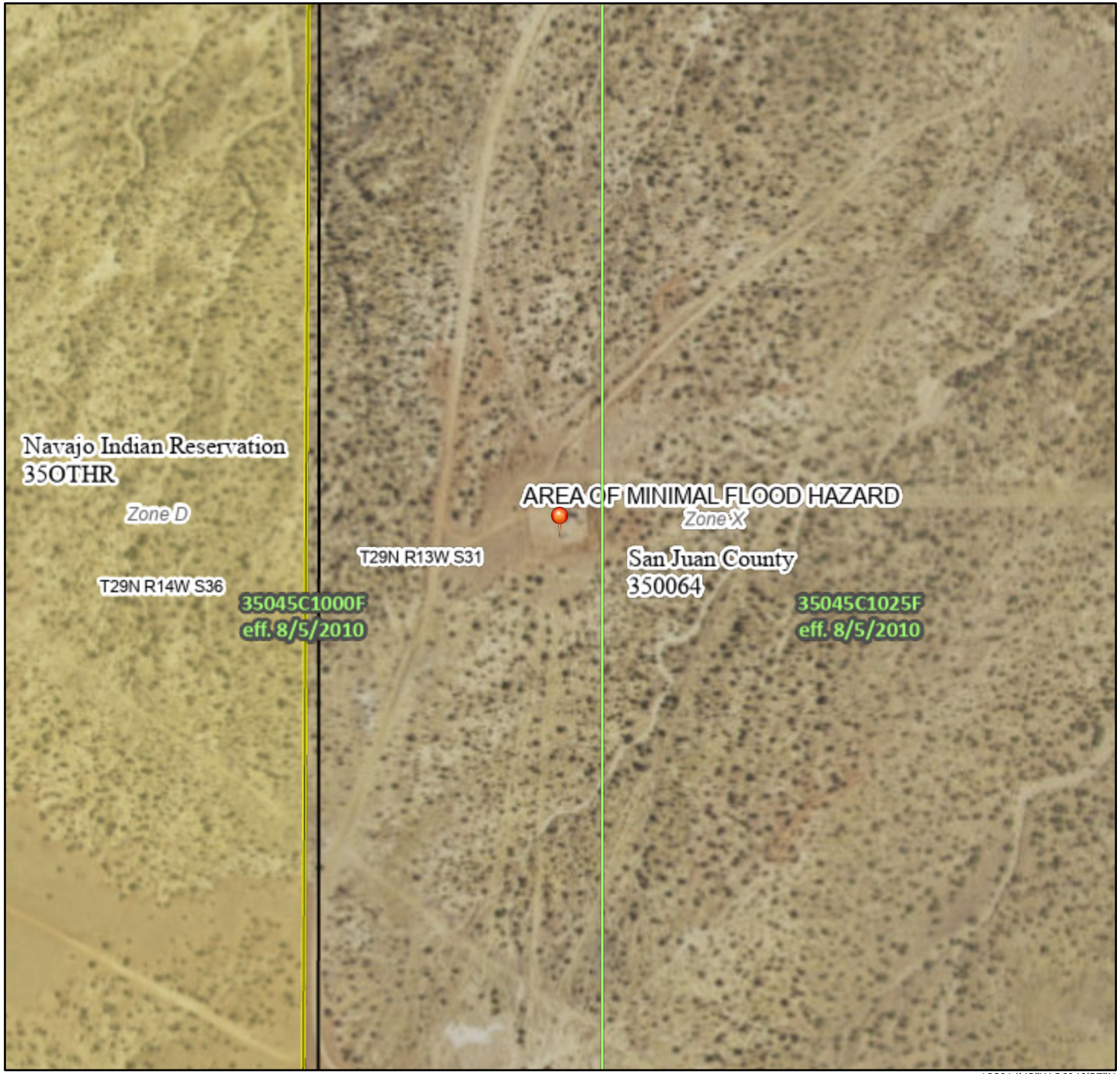
Data Source Information

Soil Survey Area: San Juan County, New Mexico, Eastern Part
Survey Area Data: Version 19, Sep 8, 2023

National Flood Hazard Layer FIRMette

FEMA

108°15'20"W 36°41'6"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

108°14'43"W 36°40'37"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/16/2024 at 12:47 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

U.S. Fish and Wildlife Service

National Wetlands Inventory

CJ Holder #500S

May 16, 2024

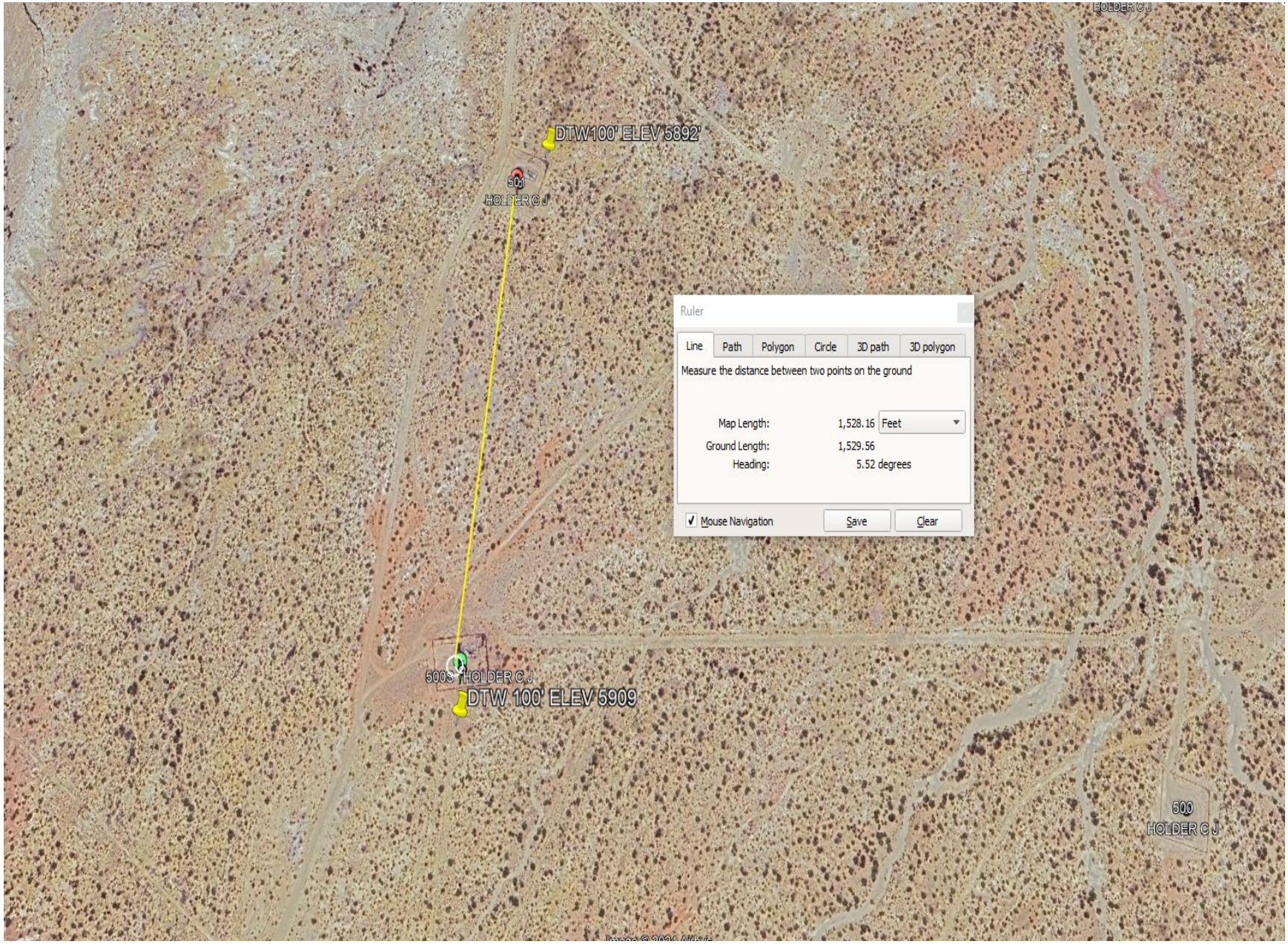
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

CJ Holder #500S DTW 100’



From: Vanessa Fields
To: Velez, Nelson, EMNRD
Subject: RE: LOGOS CJ Holder 500S API# 30-045-34493 Gypsum Plan
Date: Monday, December 18, 2023 7:58:00 AM

Good morning Nelson,

Could I please request a 90-day extension for the Gypsum Plan remediation.

Thank you,

Vanessa Fields
Regulatory Manager
Email: vfields@logosresourcesllc.com
Office: 505-787-2218
Cell: 505-320-1243

LOGOS ENERGY

From: Vanessa Fields
Sent: Monday, December 18, 2023 7:33 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Etta Trujillo <etrujillo@logosresourcesllc.com>; Lacey Granillo <LGranillo@logosresourcesllc.com>; Robert Bixler <rbixler@logosresourcesllc.com>; Bryan Lovato <blovato@logosresourcesllc.com>
Subject: RE: LOGOS CJ Holder 500S API# 30-045-34493 Gypsum Plan

Good morning Nelson,

I hope you are doing well. I just wanted to follow up on the proposed work plan for the gypsum application.

Please let me know if you have any questions.

Thank you,

Vanessa Fields
Regulatory Manager
Email: vfields@logosresourcesllc.com
Office: 505-787-2218
Cell: 505-320-1243

From: Vanessa Fields
Sent: Tuesday, December 12, 2023 5:24 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Etta Trujillo <etrujillo@logosresourcesllc.com>; Lacey Granillo <LGranillo@logosresourcesllc.com>; Robert Bixler <rbixler@logosresourcesllc.com>; Bryan Lovato <blovato@logosresourcesllc.com>
Subject: LOGOS CJ Holder 500S API# 30-045-34493 Gypsum Plan

Good evening Nelson,

Release Information:

CJ Holder 500S API 30-045-34493 INC# nAPP2322350630.
Release area 15'x 50 x 2'

LOGOS Resources respectfully request to apply gypsum to the affected area that demonstrates high chlorides. The release area has no hydrocarbons or BTEX associated with the release.

The gypsum plan would comply with BLM and NMOCD produced water reclamation treatment document.

The soil lithology is consistent with a clay loom. LOGOS proposes to apply 1/2 ton of gypsum and a minimum of one (1) inch of fresh water for each inch of soil depth. The fresh water would be sprayed on the gypsum and raked in to ensure absorption.

LOGOS will further resample in one month to determine the effectiveness of the gypsum. If closure standards are not achieved, LOGOS will continue the gypsum application to regulatory closure standards.

Please let me know if you have any questions or concerns.

Thank you very much for your time and consideration in this matter.

Thank you,

Vanessa Fields
Regulatory Manager

Email: vfields@logosresourcesllc.com
Office: 505-787-2218
Cell: 505-320-1243

From: Vanessa Fields
To: Vanessa Fields
Subject: RE: LOGOS CJ Holder 500S API# 30-045-34493 Gypsum Plan
Date: Friday, January 12, 2024 10:52:00 AM

Hi Nelson,

Hope you are doing well. Just wanted to touch base with you on my Gypsum Remediation plan that I sent over to you.

Thank you,

Vanessa Fields
Regulatory Manager
Email: vfields@logosresourcesllc.com
Office: 505-787-2218
Cell: 505-320-1243

LOGOS ENERGY

From: Vanessa Fields
Sent: Wednesday, January 10, 2024 2:45 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: LOGOS CJ Holder 500S API# 30-045-34493 Gypsum Plan

Hi Nelson,

Please find attached the LOGOS CJ Holder #500S Remediation plan.

Please let me know if you have any questions.

Thank you,

Vanessa Fields
Regulatory Manager
Email: vfields@logosresourcesllc.com
Office: 505-787-2218
Cell: 505-320-1243

From: Vanessa Fields
Sent: Monday, December 18, 2023 7:59 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: RE: LOGOS CJ Holder 500S API# 30-045-34493 Gypsum Plan

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Subject: LOGOS CJ Holder 500S API# 30-045-34493 Gypsum Plan

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Release Information:

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Release area 15'x 50 x 2'

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The gypsum plan would comply with BLM and NMOCD produced water reclamation treatment document.

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standards.

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Vanessa Fields
Regulatory Manager
Email: vfields@logosresourcesllc.com
Office: 505-787-2218
Cell: 505-320-1243

From: Vanessa Fields
To: Velez, Nelson, EMNRD
Cc: Etta Trujillo; Lacey Granillo; Robert Bixler; Bryan Lovato
Subject: RE: LOGOS CJ Holder 500S API# 30-045-34493 Gypsum Plan
Date: Monday, December 18, 2023 7:33:00 AM

Good morning Nelson,

I hope you are doing well. I just wanted to follow up on the proposed work plan for the gypsum application.

Please let me know if you have any questions.

Thank you,

Vanessa Fields
Regulatory Manager
Email: vfields@logosresourcesllc.com
Office: 505-787-2218
Cell: 505-320-1243

LOGOS ENERGY

From: Vanessa Fields
Sent: Tuesday, December 12, 2023 5:24 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Etta Trujillo <etrujillo@logosresourcesllc.com>; Lacey Granillo <LGranillo@logosresourcesllc.com>; Robert Bixler <rbixler@logosresourcesllc.com>; Bryan Lovato <blovato@logosresourcesllc.com>
Subject: LOGOS CJ Holder 500S API# 30-045-34493 Gypsum Plan

Good evening Nelson,

Release Information:

CJ Holder 500S API 30-045-34493 INC# nAPP2322350630.
Release area 15'x 50 x 2'

LOGOS Resources respectfully request to apply gypsum to the affected area that demonstrates high chlorides. The release area has no hydrocarbons or BTEX associated with the release.

The gypsum plan would comply with BLM and NMOCD produced water reclamation treatment document.

The soil lithology is consistent with a clay loom. LOGOS proposes to apply 1/2 ton of gypsum and a minimum of one (1) inch of fresh water for each inch of soil depth. The fresh water would be sprayed on the gypsum and raked in to ensure absorption.

LOGOS will further resample in one month to determine the effectiveness of the gypsum. If closure standards are not achieved, LOGOS will continue the gypsum application to regulatory closure standards.

Please let me know if you have any questions or concerns.

Thank you very much for your time and consideration in this matter.

Thank you,

Vanessa Fields
Regulatory Manager
Email: vfields@logosresourcesllc.com
Office: 505-787-2218
Cell: 505-320-1243

LOGOS ENERGY

From: Velez, Nelson, EMNRD
To: Vanessa Fields
Subject: Re: [EXTERNAL] RE: LOGOS CJ Holder 500S API# 30-045-34493 Gypsum Plan
Date: Monday, December 18, 2023 8:08:17 AM
Attachments: Outlook-c4fcyum2.png

Good morning Vanessa,

Your 90-day time extension request is approved. Remediation Due date has been updated to March 18, 2023.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Vanessa Fields <vfields@logosresourcesllc.com>
Sent: Monday, December 18, 2023 7:58 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: [EXTERNAL] RE: LOGOS CJ Holder 500S API# 30-045-34493 Gypsum Plan

Good morning Nelson,

Could I please request a 90-day extension for the Gypsum Plan remediation.

Thank you,

Vanessa Fields
Regulatory Manager
Email: vfields@logosresourcesllc.com
Office: 505-787-2218

Cell: 505-320-1243

From: Vanessa Fields
Sent: Monday, December 18, 2023 7:33 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Etta Trujillo <etrujillo@logosresourcesllc.com>; Lacey Granillo <LGranillo@logosresourcesllc.com>; Robert Bixler <rbixler@logosresourcesllc.com>; Bryan Lovato <blovato@logosresourcesllc.com>
Subject: RE: LOGOS CJ Holder 500S API# 30-045-34493 Gypsum Plan

Good morning Nelson,

I hope you are doing well. I just wanted to follow up on the proposed work plan for the gypsum application.

Please let me know if you have any questions.

Thank you,

Vanessa Fields
Regulatory Manager
Email: vfields@logosresourcesllc.com
Office: 505-787-2218
Cell: 505-320-1243

From: Vanessa Fields
Sent: Tuesday, December 12, 2023 5:24 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Etta Trujillo <etrujillo@logosresourcesllc.com>; Lacey Granillo <LGranillo@logosresourcesllc.com>; Robert Bixler <rbixler@logosresourcesllc.com>; Bryan Lovato <blovato@logosresourcesllc.com>

Subject: LOGOS CJ Holder 500S API# 30-045-34493 Gypsum Plan

Good evening Nelson,

Release Information:

CJ Holder 500S API 30-045-34493 INC# nAPP2322350630.
Release area 15'x 50 x 2'

LOGOS Resources respectfully request to apply gypsum to the affected area that demonstrates high chlorides. The release area has no hydrocarbons or BTEX associated with the release.

The gypsum plan would comply with BLM and NMOCD produced water reclamation treatment document.

The soil lithology is consistent with a clay loom. LOGOS proposes to apply 1/2 ton of gypsum and a minimum of one (1) inch of fresh water for each inch of soil depth. The fresh water would be sprayed on the gypsum and raked in to ensure absorption.

LOGOS will further resample in one month to determine the effectiveness of the gypsum. If closure standards are not achieved, LOGOS will continue the gypsum application to regulatory closure standards.

Please let me know if you have any questions or concerns.

Thank you very much for your time and consideration in this matter.

Thank you,

Vanessa Fields
Regulatory Manager
Email: vfields@logosresourcesllc.com
Office: 505-787-2218
Cell: 505-320-1243

LOGOS
ENERGY

From: Vanessa Fields
To: Velez, Nelson, EMNRD
Cc: Etta Trujillo; Lacey Granillo; Robert Bixler; Bryan Lovato
Subject: LOGOS CJ Holder 500S API# 30-045-34493 Gypsum Plan
Date: Tuesday, December 12, 2023 5:24:00 PM
Attachments: E312039 Envirotech3_v18 FINAL 12 08 23 1328.pdf
image001.jpg

Good evening Nelson,

Release Information:

CJ Holder 500S API 30-045-34493 INC# nAPP2322350630.
Release area 15'x 50 x 2'

LOGOS Resources respectfully request to apply gypsum to the affected area that demonstrates high chlorides. The release area has no hydrocarbons or BTEX associated with the release.

The gypsum plan would comply with BLM and NMOCD produced water reclamation treatment document.

The soil lithology is consistent with a clay loom. LOGOS proposes to apply 1/2 ton of gypsum and a minimum of one (1) inch of fresh water for each inch of soil depth. The fresh water would be sprayed on the gypsum and raked in to ensure absorption.

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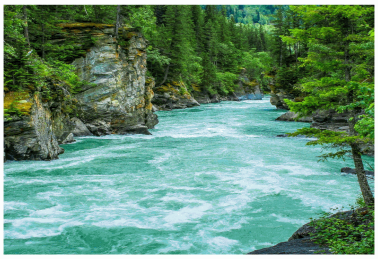
Thank you very much for your time and consideration in this matter.

Thank you,

Vanessa Fields
Regulatory Manager
Email: vfields@logosresourcesllc.com
Office: 505-787-2218
Cell: 505-320-1243

Report to:

Vanessa Fields



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:	CJ Holder #500 S
Work Order:	E403177
Job Number:	12035-0114
Received:	3/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/20/24

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.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 3/20/24

Vanessa Fields
2010 Afton Place
Farmington, NM 87401

Project Name: CJ Holder #500 S
Workorder: E403177
Date Received: 3/19/2024 12:35:00PM

Vanessa Fields,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/19/2024 12:35:00PM, under the Project Name: CJ Holder #500 S.

The analytical test results summarized in this report with the Project Name: CJ Holder #500 S 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

Michelle Golzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Logos Resources	Project Name:	CJ Holder #500 S	**Reported:**
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Vanessa Fields	03/20/24 12:14

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SB1	E403177-01A	Soil	03/19/24	03/19/24	Glass Jar, 2 oz.
SB2	E403177-02A	Soil	03/19/24	03/19/24	Glass Jar, 2 oz.

Sample Data

Logos Resources	Project Name:	CJ Holder #500 S	
2010 Afton Place	Project Number:	12035-0114	**Reported:**
Farmington NM, 87401	Project Manager:	Vanessa Fields	3/20/2024 12:14:43PM

SB1

E403177-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2412044
Chloride	**3500**	40.0	2	03/19/24	03/20/24	

Sample Data

Logos Resources	Project Name:	CJ Holder #500 S	
2010 Afton Place	Project Number:	12035-0114	**Reported:**
Farmington NM, 87401	Project Manager:	Vanessa Fields	3/20/2024 12:14:43PM

SB2

E403177-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2412044
Chloride	**3770**	40.0	2	03/19/24	03/20/24	

QC Summary Data

Logos Resources	Project Name:	CJ Holder #500 S	**Reported:**
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Vanessa Fields	3/20/2024 12:14:43PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2412044-BLK1)									Prepared: 03/19/24 Analyzed: 03/20/24
Chloride	ND	20.0							
LCS (2412044-BS1)									Prepared: 03/19/24 Analyzed: 03/20/24
Chloride	250	20.0	250		99.8	90-110			
LCS Dup (2412044-BSD1)									Prepared: 03/19/24 Analyzed: 03/20/24
Chloride	249	20.0	250		99.8	90-110	0.0232	20	

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

Definitions and Notes

Logos Resources	Project Name:	CJ Holder #500 S	
2010 Afton Place	Project Number:	12035-0114	**Reported:**
Farmington NM, 87401	Project Manager:	Vanessa Fields	03/20/24 12:14

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite
DNR	Did not react with the addition of acid or base.

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

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

Project Information | Chain of Custody | Page 1 of 1

Client: Logos Resources	Bill To	Lab Use Only	TAT / EPA Program
Project: CJ Holder #500S	Attention: Vanessa Fields	Lab WO# E403177 / Job Number 12205011	1D X; 2D; 3D; Standard; CWA; SDWA; RCRA
Project Manager: Vanessa Fields	Address: 2010 Afton PL	Analysis and Method	State: NM X; CO; UT; AZ; TX
Address: 2010 Afton PL	City, State, Zip Farmington NM 87401		
City, State, Zip Farmington NM 87401	Phone: 505 320 1243		
Phone: 505 320 1243	Email: Vfields@logosresourcesllc.com, lgranillo@logosresourcesllc.com		
Email: Vfields@logosresourcesllc.com			
Report due by: 1 Day			

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	TCEQ 1005- TX	Remarks
11:36	3/19/24	S	1	SB1	1						X			
11:52	3/19/24	S	1	SB2	2						X			

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	3/19/24	12:35		3/19/24	12:35
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only — Received on ice: (Y) / N; T1; T2; T3; AVG Temp °C 4

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 3/19/2024 2:06:13PM

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:	03/19/24 12:35	Work Order ID:	E403177
Phone:	(505) 787-9100	Date Logged In:	03/19/24 14:00	Logged In By:	Alexa Michaels
Email:	vfields@logosresourcesllc.com	Due Date:	03/20/24 17:00 (1 day TAT)		

Chain of Custody (COC)

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

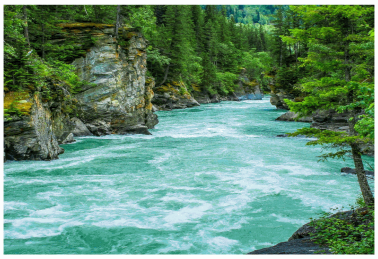
Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.

Report to:

Vanessa Fields



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: CJ Holder 5005

Work Order: E312039

Job Number: 12035-0114

Received: 12/7/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/8/23

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.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 12/8/23

Vanessa Fields
2010 Afton Place
Farmington, NM 87401

Project Name: CJ Holder 5005
Workorder: E312039
Date Received: 12/7/2023 11:22:00AM

Vanessa Fields,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/7/2023 11:22:00AM, under the Project Name: CJ Holder 5005.

The analytical test results summarized in this report with the Project Name: CJ Holder 5005 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

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljarboe@envirotech-inc.com

Michelle Golzales
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Logos Resources	Project Name:	CJ Holder 5005	**Reported:**
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Vanessa Fields	12/08/23 13:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SB#001	E312039-01A	Soil	12/07/23	12/07/23	Glass Jar, 4 oz.
SB#002	E312039-02A	Soil	12/07/23	12/07/23	Glass Jar, 4 oz.
SB#003	E312039-03A	Soil	12/07/23	12/07/23	Glass Jar, 4 oz.
SB#004	E312039-04A	Soil	12/07/23	12/07/23	Glass Jar, 4 oz.

Sample Data

Logos Resources	Project Name:	CJ Holder 5005	
2010 Afton Place	Project Number:	12035-0114	**Reported:**
Farmington NM, 87401	Project Manager:	Vanessa Fields	12/8/2023 1:28:11PM

SB#001

E312039-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2349086
Benzene	ND	0.0250	1	12/07/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/07/23	12/07/23	
Toluene	ND	0.0250	1	12/07/23	12/07/23	
o-Xylene	ND	0.0250	1	12/07/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/07/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/07/23	12/07/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.7 %*	*70-130*	*12/07/23*	*12/07/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2349086
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/07/23	12/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.9 %*	*70-130*	*12/07/23*	*12/07/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2349075
Diesel Range Organics (C10-C28)	ND	25.0	1	12/07/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/07/23	12/07/23	
Surrogate: n-Nonane		*79.7 %*	*50-200*	*12/07/23*	*12/07/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2349080
Chloride	**6440**	200	10	12/07/23	12/07/23	

Sample Data

Logos Resources	Project Name:	CJ Holder 5005	
2010 Afton Place	Project Number:	12035-0114	**Reported:**
Farmington NM, 87401	Project Manager:	Vanessa Fields	12/8/2023 1:28:11PM

SB#002

E312039-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2349086
Benzene	ND	0.0250	1	12/07/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/07/23	12/07/23	
Toluene	ND	0.0250	1	12/07/23	12/07/23	
o-Xylene	ND	0.0250	1	12/07/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/07/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/07/23	12/07/23	
Surrogate: 4-Bromochlorobenzene-PID		*97.2 %*	*70-130*	*12/07/23*	*12/07/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2349086
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/07/23	12/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.3 %*	*70-130*	*12/07/23*	*12/07/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2349075
Diesel Range Organics (C10-C28)	ND	25.0	1	12/07/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/07/23	12/07/23	
Surrogate: n-Nonane		*78.7 %*	*50-200*	*12/07/23*	*12/07/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2349080
Chloride	**15300**	200	10	12/07/23	12/07/23	

Sample Data

Logos Resources	Project Name:	CJ Holder 5005	
2010 Afton Place	Project Number:	12035-0114	**Reported:**
Farmington NM, 87401	Project Manager:	Vanessa Fields	12/8/2023 1:28:11PM

SB#003

E312039-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2349086
Benzene	ND	0.0250	1	12/07/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/07/23	12/07/23	
Toluene	ND	0.0250	1	12/07/23	12/07/23	
o-Xylene	ND	0.0250	1	12/07/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/07/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/07/23	12/07/23	
Surrogate: 4-Bromochlorobenzene-PID		*98.1 %*	*70-130*	*12/07/23*	*12/07/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2349086
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/07/23	12/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.5 %*	*70-130*	*12/07/23*	*12/07/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2349075
Diesel Range Organics (C10-C28)	ND	25.0	1	12/07/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/07/23	12/07/23	
Surrogate: n-Nonane		*79.9 %*	*50-200*	*12/07/23*	*12/07/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2349080
Chloride	**13000**	200	10	12/07/23	12/07/23	

Sample Data

Logos Resources	Project Name:	CJ Holder 5005	
2010 Afton Place	Project Number:	12035-0114	**Reported:**
Farmington NM, 87401	Project Manager:	Vanessa Fields	12/8/2023 1:28:11PM

SB#004

E312039-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2349086
Benzene	ND	0.0250	1	12/07/23	12/07/23	
Ethylbenzene	ND	0.0250	1	12/07/23	12/07/23	
Toluene	ND	0.0250	1	12/07/23	12/07/23	
o-Xylene	ND	0.0250	1	12/07/23	12/07/23	
p,m-Xylene	ND	0.0500	1	12/07/23	12/07/23	
Total Xylenes	ND	0.0250	1	12/07/23	12/07/23	
Surrogate: 4-Bromochlorobenzene-PID		*98.8 %*	*70-130*	*12/07/23*	*12/07/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2349086
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/07/23	12/07/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.6 %*	*70-130*	*12/07/23*	*12/07/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2349075
Diesel Range Organics (C10-C28)	ND	25.0	1	12/07/23	12/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/07/23	12/07/23	
Surrogate: n-Nonane		*75.9 %*	*50-200*	*12/07/23*	*12/07/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2349080
Chloride	**9070**	200	10	12/07/23	12/07/23	

QC Summary Data

Logos Resources	Project Name:	CJ Holder 5005	**Reported:**
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Vanessa Fields	12/8/2023 1:28:11PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2349086-BLK1)									Prepared: 12/07/23 Analyzed: 12/07/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.93*		*8.00*		*99.1*	*70-130*			
LCS (2349086-BS1)									Prepared: 12/07/23 Analyzed: 12/07/23
Benzene	4.55	0.0250	5.00		91.0	70-130			
Ethylbenzene	4.45	0.0250	5.00		89.0	70-130			
Toluene	4.59	0.0250	5.00		91.9	70-130			
o-Xylene	4.58	0.0250	5.00		91.6	70-130			
p,m-Xylene	9.20	0.0500	10.0		92.0	70-130			
Total Xylenes	13.8	0.0250	15.0		91.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.04*		*8.00*		*101*	*70-130*			
Matrix Spike (2349086-MS1)				**Source: E312039-02**					Prepared: 12/07/23 Analyzed: 12/07/23
Benzene	5.02	0.0250	5.00	ND	100	54-133			
Ethylbenzene	4.91	0.0250	5.00	ND	98.1	61-133			
Toluene	5.07	0.0250	5.00	ND	101	61-130			
o-Xylene	5.05	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*8.00*		*8.00*		*100*	*70-130*			
Matrix Spike Dup (2349086-MSD1)				**Source: E312039-02**					Prepared: 12/07/23 Analyzed: 12/07/23
Benzene	4.96	0.0250	5.00	ND	99.3	54-133	1.07	20	
Ethylbenzene	4.86	0.0250	5.00	ND	97.1	61-133	1.07	20	
Toluene	5.02	0.0250	5.00	ND	100	61-130	1.02	20	
o-Xylene	5.00	0.0250	5.00	ND	99.9	63-131	1.03	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	1.03	20	
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131	1.03	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.99*		*8.00*		*99.8*	*70-130*			

QC Summary Data

Logos Resources	Project Name:	CJ Holder 5005	**Reported:**
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Vanessa Fields	12/8/2023 1:28:11PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2349086-BLK1)									Prepared: 12/07/23 Analyzed: 12/07/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.37*		*8.00*		*92.1*	*70-130*			
LCS (2349086-BS2)									Prepared: 12/07/23 Analyzed: 12/07/23
Gasoline Range Organics (C6-C10)	41.0	20.0	50.0		82.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.49*		*8.00*		*93.7*	*70-130*			
Matrix Spike (2349086-MS2)				**Source: E312039-02**					Prepared: 12/07/23 Analyzed: 12/07/23
Gasoline Range Organics (C6-C10)	38.9	20.0	50.0	ND	77.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.27*		*8.00*		*90.9*	*70-130*			
Matrix Spike Dup (2349086-MSD2)				**Source: E312039-02**					Prepared: 12/07/23 Analyzed: 12/07/23
Gasoline Range Organics (C6-C10)	37.8	20.0	50.0	ND	75.6	70-130	2.70	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.12*		*8.00*		*89.0*	*70-130*			

QC Summary Data

Logos Resources	Project Name:	CJ Holder 5005	**Reported:**
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Vanessa Fields	12/8/2023 1:28:11PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2349075-BLK1)									Prepared: 12/07/23 Analyzed: 12/07/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*41.9*		*50.0*		*83.9*	*50-200*			
LCS (2349075-BS1)									Prepared: 12/07/23 Analyzed: 12/07/23
Diesel Range Organics (C10-C28)	206	25.0	250		82.5	38-132			
Surrogate: n-Nonane	*42.6*		*50.0*		*85.3*	*50-200*			
Matrix Spike (2349075-MS1)				**Source: E312036-05**					Prepared: 12/07/23 Analyzed: 12/07/23
Diesel Range Organics (C10-C28)	216	25.0	250	ND	86.5	38-132			
Surrogate: n-Nonane	*43.0*		*50.0*		*85.9*	*50-200*			
Matrix Spike Dup (2349075-MSD1)				**Source: E312036-05**					Prepared: 12/07/23 Analyzed: 12/07/23
Diesel Range Organics (C10-C28)	213	25.0	250	ND	85.1	38-132	1.71	20	
Surrogate: n-Nonane	*41.6*		*50.0*		*83.2*	*50-200*			

QC Summary Data

Logos Resources	Project Name:	CJ Holder 5005	**Reported:**
2010 Afton Place	Project Number:	12035-0114	
Farmington NM, 87401	Project Manager:	Vanessa Fields	12/8/2023 1:28:11PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2349080-BLK1)									Prepared: 12/07/23 Analyzed: 12/07/23
Chloride	ND	20.0							
LCS (2349080-BS1)									Prepared: 12/07/23 Analyzed: 12/07/23
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2349080-MS1)				**Source: E312038-02**					Prepared: 12/07/23 Analyzed: 12/07/23
Chloride	8180	200	250	8330	NR	80-120			M4
Matrix Spike Dup (2349080-MSD1)				**Source: E312038-02**					Prepared: 12/07/23 Analyzed: 12/07/23
Chloride	8140	200	250	8330	NR	80-120	0.560	20	M4

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:	CJ Holder 5005	
2010 Afton Place	Project Number:	12035-0114	**Reported:**
Farmington NM, 87401	Project Manager:	Vanessa Fields	12/08/23 13:28

M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. 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
DNR	Did not react with the addition of acid or base.

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

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

Project Information | Chain of Custody | Page 1 of 1

Client: LOGOS	Bill To	Lab Use Only	TAT
Project: CJ Holders 005	Attention: Vanessa Fields	Lab WO# E312039	Job Number 12035-0114
Project Manager: Vanessa Fields	Address:		1D 2D 3D Standard
Address: 2010 N 1st St	City, State, Zip		
City, State, Zip Farmington NM	Phone:		
Phone: 505-330-4243	Email: Same		
Email: VFields2@logosresourcesllc.com			
Report due by: 1 Day			

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	TCEQ 1005- TX	Remarks
9:30	12/7/23	S	1	SB#001	1	X	X	X			X			
9:38		S	1	SB#002	2	X	X	X			X			
10:46		S	1	SB#003	3	X	X	X			X			
10:49		S	1	SB#004	4	X	X	X			X			

Additional Instructions:

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	12/7/23	11:23	Mentine	12/7/23	11:22

Lab Use Only
Received on ice: Y / N
T1 T2 T3
AVG Temp °C 4

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

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

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

envirotech

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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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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

QUESTIONS

Action 373553

QUESTIONS

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 373553
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2322350630**
Incident Name	**NAPP2322350630 CJ HOLDER 500S @ 30-045-34493**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-045-34493] C J HOLDER #500S**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	CJ HOLDER 500S
Date Release Discovered	08/07/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Equipment Failure | Dump Line | Produced Water | Released: 62 BBL | Recovered: 60 BBL | Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	See attached plan

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QUESTIONS (continued)

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 373553
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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.

I hereby agree and sign off to the above statement	Name: Vanessa Fields Title: Regulatory Manager Email: vfields@logosresourcesllc.com Date: 08/13/2024

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QUESTIONS (continued)

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 373553
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	9070
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	12/01/2023
On what date will (or did) the final sampling or liner inspection occur	03/15/2024
On what date will (or was) the remediation complete(d)	03/15/2024
What is the estimated surface area (in square feet) that will be reclaimed	1500
What is the estimated volume (in cubic yards) that will be reclaimed	24
What is the estimated surface area (in square feet) that will be remediated	1500
What is the estimated volume (in cubic yards) that will be remediated	24
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 373553
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	ENVIROTECH LANDFARM #2 [fEEM0112336756]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Vanessa Fields Title: Regulatory Manager Email: vfields@logosresourcesllc.com Date: 08/13/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 373553
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QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: LOGOS OPERATING, LLC 2010 Afton Place Farmington, NM 87401	OGRID: 289408
	Action Number: 373553
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**323885**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**03/19/2024**
What was the (estimated) number of samples that were to be gathered	**2**
What was the sampling surface area in square feet	**800**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1500
What was the total volume (cubic yards) remediated	24
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1500
What was the total volume (in cubic yards) reclaimed	24
Summarize any additional remediation activities not included by answers (above)	See attached plan

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 (in .pdf format) 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.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Vanessa Fields Title: Regulatory Manager Email: vfields@logosresourcesllc.com Date: 08/13/2024

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QUESTIONS (continued)

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	Action Number: 373553
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 373553

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	8/14/2024
amaxwell	Please note that since December 1, 2023, remediation plans have been required to be submitted via the OCD permitting portal. The OCD cannot approve work plans via email correspondence.	8/14/2024
amaxwell	Implementation of Digital C-141 and New Incident Statuses (December 1, 2023) can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ under the 2023 OCD Announcement and Notifications.	8/14/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	8/14/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	8/14/2024