

October 10, 2024

New Mexico Oil Conservation Division 506 W. Texas Ave Artesia, NM 88210

RE: East Caza- Closure Request Report

Incident Number: nAPP2424223470 GPS: 32.06908°, -103.28072° Lea County, New Mexico ESRR Project No. 2419

To Whom It May Concern:

Earth Systems Response & Restoration (ESSR) presents the following Closure Request Report (CRR) detailing excavation activities and subsequent soil sampling events associated with an inadvertent release of crude oil at the East Caza (Site), owned by Salt Creek Midstream, LLC and operated by SCM Operations, LLC (Salt Creek), OGRID# 330368. Based on completed remedial actions and laboratory analytical results from recent soil sampling events, Salt Creek is requesting No Further Action (NFA) at the Site.

Site Location & Incident Description

The Site is located in Unit I, Section 05, Township 26 South, Range 36 East, in Lea County, New Mexico (32.06908°, -103.28072°) and is associated with oil and gas exploration and production operations on Private Land (**Figure 1**).

On August 23, 2024, a pig receiver was opened prior to the drainage of residual fluids, causing the release of approximately 6 barrels (bbls) of crude oil onto native soils within a Salt Creek established right-of-way. Due to absorption of fluids by the sandy native soils, no fluids were recovered. ESRR conducted initial site assessment activities and mapped the observed release footprint on August 26, 2024, hereafter referred to as the Area of Concern (AOC) (**Figure 2**). Salt Creek gave notice to the New Mexico Oil Conservation Division (NMOCD) on August 28, 2024, by Notification of Release (NOR) and was subsequently assigned Incident Number nAPP2424223470. On September 12, 2024, Salt Creek reported the release on a Corrective Action Form C-141 (Form C-141).

Site Characterization

ESRR characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). The following proximities were estimated:

- Greater than 5 miles of any continuously flowing watercourse or any other significant watercourse;
- Between ½ and 1 mile of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- Between 1 and 5 miles of any occupied permanent residence, school, hospital, institution or church;
- Between ½ and 1 mile of any spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Between ½ and 1 mile of any other freshwater well or spring;



- Between 1 and 5 miles of any incorporated municipal boundary or a defined municipal fresh water well field covered under a municipal ordinance;
- Between ½ and 1 mile of any wetland;
- Greater than 5 miles of any subsurface mine;
- o Greater than 5 miles of any unstable area (i.e. high karst potential); and
- o Greater than 5 miles of a 100-year floodplain.

Receptor details used to determine the Site characterization are included in **Figure 3** and **Figure 4**. **Referenced Well Records** for the closest depth to water wells are attached.

Based on the results from the desktop review and no depth to water well within 0.5 mile of the Site with data no greater than 25 years old, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Closure Criteria [‡]
Chloride	600 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	100 mg/kg
Benzene	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	50 mg/kg

[‡]The reclamation concentration requirements of 600 mg/kg Chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

TPH= Gasoline Range Organics + Diesel Range Organics + Oil Range Organics
Laboratory Analytical Methods used: Environmental Protection Agency (EPA) 300.0, EPA 8015 NM, EPA 8021 B

Remediation Activities

From September 6 through September 21, 2024, ESRR conducted excavation activities via hydrovac and hand digging to address residual impacts associated with the AOC. Excavation activities were driven by field screening soil for chloride using HACH® chloride QuanTab® test strips combined with visual and olfactory observations.

Following the removal of soil, ESRR collected 5-point composite soil samples at a sampling frequency of 200 square feet from the excavation floor (CS-1 through CS-3) and sidewalls (SW-1 through SW-3). The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon resealable plastic bag. The confirmation soil samples were placed directly into pre-cleaned jars, packed with minimal void space, labeled, and placed on ice. The confirmation soil samples were transported under strict chain-of-custody procedures, to Eurofins in Carlsbad, New Mexico, for analysis of the COCs.

Laboratory analytical results indicated that concentrations of COCs for confirmation soil samples (SW-1 through SW-3) were below the applicable Site Closure Criteria and the reclamation standard.

Laboratory analytical results indicated that concentrations of COCs for confirmation soil samples (CS-1 through CS-3) were above the applicable Site Closure Criteria and the reclamation standard for Total Petroleum Hydrocarbon (TPH), specifically Diesel Range Organics (DRO), ranging from 129 to 397 mg/kg at 2.5 feet below ground surface (bgs).

Continued Remediation Activities

Due to the concentrations of COCs in laboratory analytical results above, ESRR conducted further excavation activities, removing an additional 6 inches of impacted soil from the excavation floor to a final depth of 3 feet bgs. A variance to the 2-business day sampling notification was requested by Salt Creek

Page 2 of 3



and approved by the NMOCD on September 12, 2024. ESRR collected 5-point composite confirmation soil samples (CS-1 through CS-3) handled, transported, and analyzed as previously described.

Laboratory analytical results indicated that concentrations of COCs for the additional confirmation soil samples (CS-1 through CS-3) were below the applicable Site Closure Criteria and the reclamation standard. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all final confirmation soil samples are shown in **Figure 5**.

Approximately 40 cubic yards (CY) of impacted soil was removed from the Site and transported to the Northern Delaware Basin Disposal in Jal, New Mexico under Salt Creek approved manifests. Upon receipt of the final confirmation soil samples results, the excavation was backfilled with clean, locally sourced soil and the Site was restored to "as close to its original state" as possible. The final soil cover was contoured to match the Sites pre-existing grade to prevent ponding of water and erosion.

Closure Request

Based on laboratory analytical results for all final confirmation soil samples, Salt Creek believes that residual soil impacts associated with the inadvertent release have been excavated and removed from the Site. Salt Creek believes the completed remedial actions meet the requirements set forth in NMAC 19.15.29.13 regulations in order to be protective of human health, the environment, and groundwater. As such, NFA appears warranted at this time, and Salt Creek requests Closure of this CRR associated with Incident Number nAPP2424223470.

If you have any questions or comments, please do not hesitate to contact Gilbert Moreno at (832) 541-7719 or gmoreno@earthsys.net. Documentation of correspondence and notifications and Executed chain-of-custody forms and laboratory analytical reports are attached.

Sincerely,

EARTH SYSTEMS RESPONSE & RESTORATION

Gilbert Moreno

Carlsbad Operations Manager-Project Geologist

cc: Susan Worthen, Salt Creek Midstream

Attachments:

Figure 1 - Site Map

Figure 2 - Area of Concern

Figure 3 - Ground Water

Figure 4 - Karst Potential

Referenced Well Records

Table 1 – Soil Sample Analytical Results

Figure 5 - Excavation Soil Sample Locations

Photographic Documentation

NMOCD Email Documentation & Correspondance

Executed Chain-of-Custody Forms and Laboratory Analytical Reports

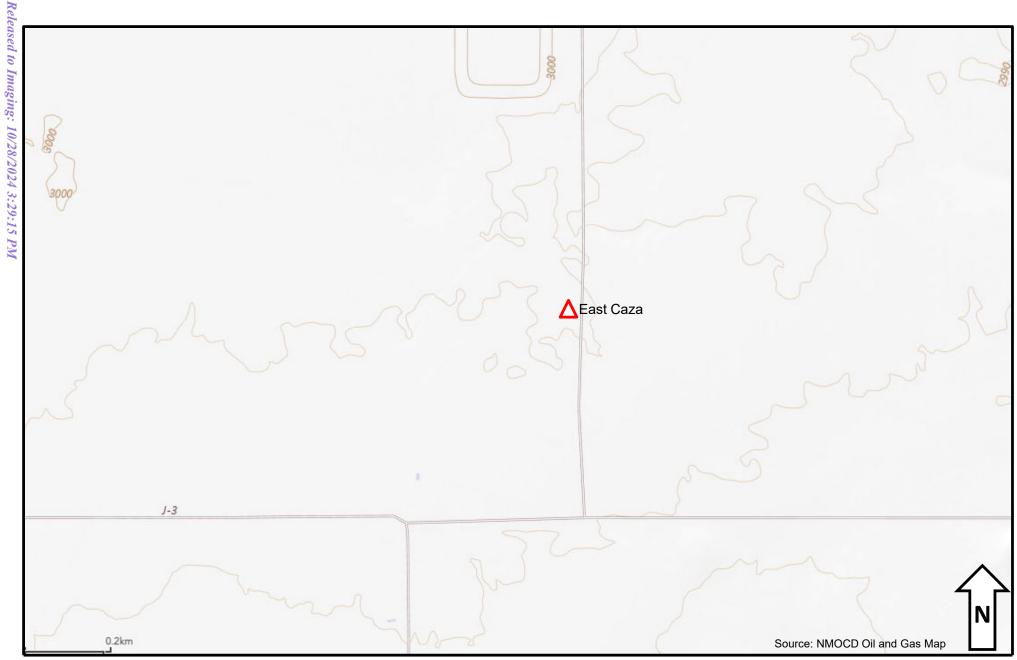




Figure 1 - Site Map





Figure 2 – Area of Concern



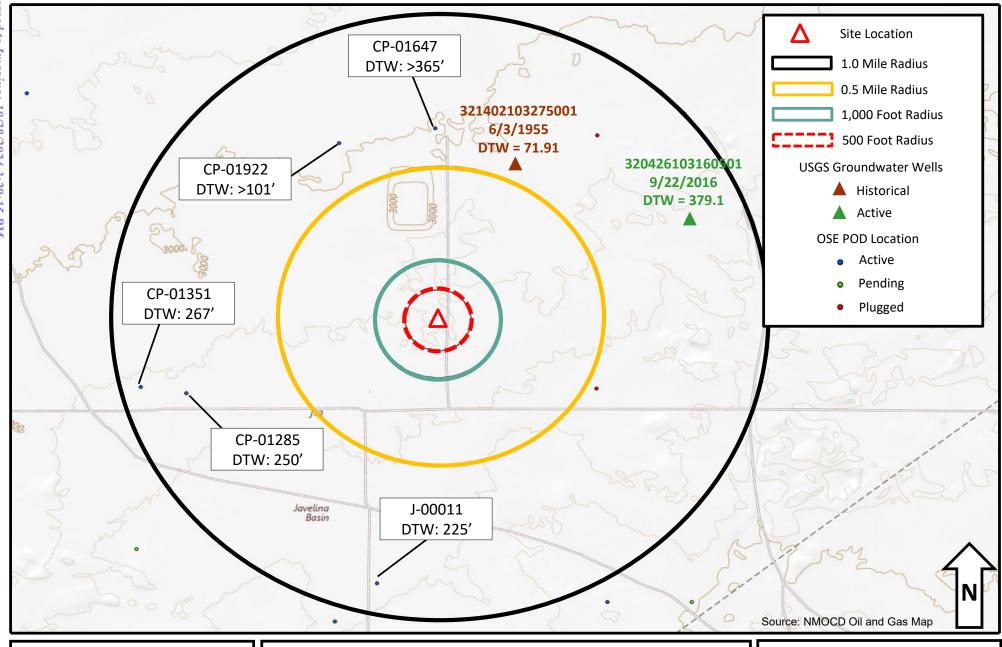




Figure 3 – Ground Water



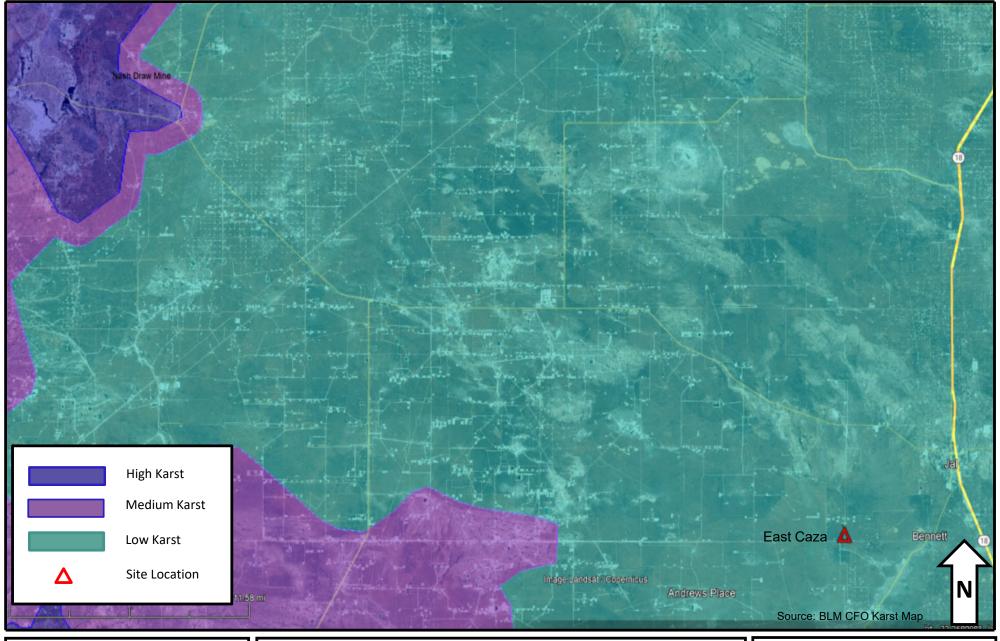




Figure 4 - Karst Potential





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Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

733954

File Nbr:

CP 01922

Well File Nbr: CP 01922 POD 1

Oct. 04, 2022

ANDREW PARKER
AMEREDEV OPERATING LLC
2901 VIA FORTUNA SUITE 600
AUSTIN, TX 78746

Greetings:

The above numbered permit was issued in your name on 09/14/2022.

The Well Record was received in this office on 09/30/2022, stating that it had been completed on 09/21/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/14/2023.

If you have any questions, please feel free to contact us.

Clement

Sincerely,

Vanessa Clements (575)622-6521

drywell

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

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drywell

PAGE 1 OF 2

WELL I CORD & LOG

OFFICE OF THE STATE ENGINEER

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WELL I CORD & LOG

OFFICE OF THE STATE ENGINEER

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265.36E.5.3.3.3

LOCATION

664512 PAGE 1 OF 2

	DEPTH (fect bel)			1	ESTIMATED
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	1	16	15	CALICHE	OYON	
	16	230	214	CLAY	OY ON	
	230	285	55	ROCK	OY ON	
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邑	CORRECT	RECORD O	F THE ABOVE I	FIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECO	ORD WITH THE STA	ATE ENGINEER
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۴	-	SIGNAT	TURE OF DRILL	ER / PRINT SIGNEE NAME	DATE	. —
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FOR OSE INTER	NAL USE		WR-20 WELL RECORD & LOG	(Version 06/08/2012)
FILE NUMBER	CP-1285	POD NUMBER	TRN NUMBER	
LOCATION	265.36E.5.3.3	·3	comm.	PAGE 2 OF 2

Received by OCD: 10/15/2024 5:52:32 AM



Table 1 SOIL SAMPLE ANALYTICAL RESULTS East Caza Lea County, New Mexico



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closus Release (NMAC 19.15.		ils Impacted by a	10	50	NE	NE	NE	100	600
				Confirmation Soil	Samples - nAPP24242	223470			
CS-1	09/11/24	2.5	<0.00199	<0.00398	<50.0	129	<50.0	129	13.9
CS-1	09/13/24	3	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	10.90
CS-2	09/11/24	2.5	<0.00201	<0.00402	<49.7	397	<49.7	397	77.9
CS-2	09/13/24	3	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	7.06
CS-3	09/11/24	2.5	<0.00202	<0.00404	<49.9	192	<49.9	192	<4.98
CS-3	09/13/24	3	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	7.40
SW-1	09/11/24	0-2.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<4.99
SW-2	09/11/24	0-2.5	<0.00200	<0.00400	<50.3	<50.3	<50.3	<50.3	<4.97
SW-3	09/11/24	0-2.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<5.00

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Text in ""grey"" represents excavated soil samples

Concentrations in Food and highlighted exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard for Soils Impacted by a Release

[‡]The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

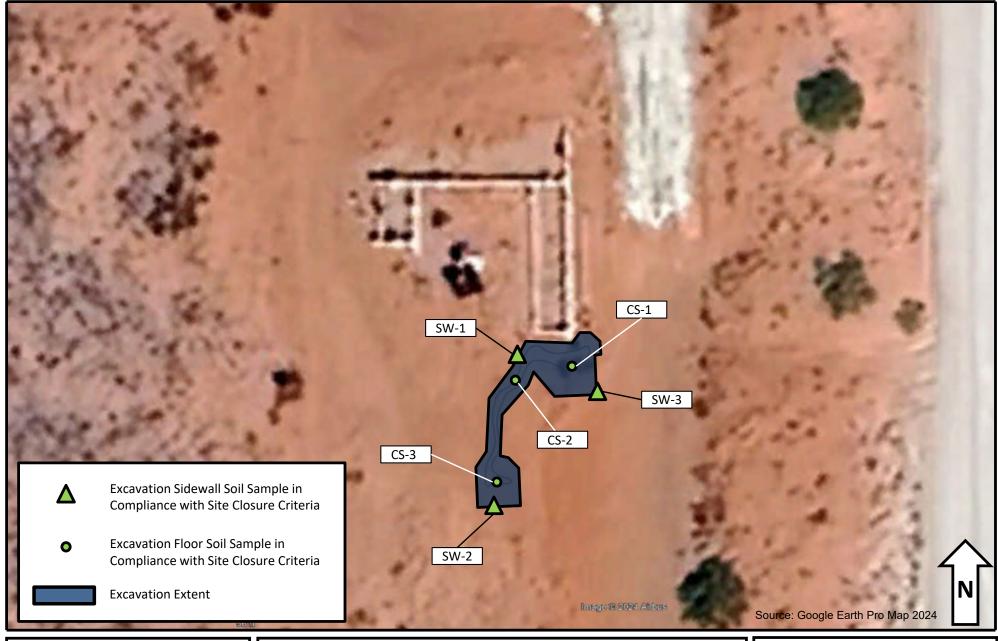




Figure 5 – Excavation Soil Sample Locations







PHOTO 1: Northeast view of AOC during initial response. 08/26/2024



PHOTO 2: Southwest view of AOC during initial response. 08/26/2024





PHOTO 3: Southeast view of excavation extent. 9/6/2024

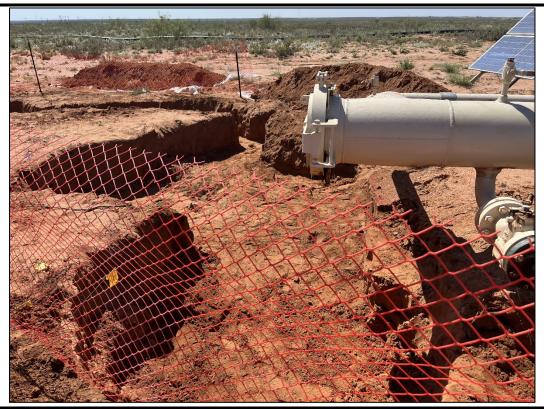


PHOTO 4: Western view of excavation extent. 9/11/2024





PHOTO 5: Northeast view of excavation extent. 9/13/2024



PHOTO 6: Southwest view during restoration activities. 9/21/2024





PHOTO 7: Northeast view during restoration activities. 9/21/2024



PHOTO 8: Southeast view during restoration activities. 9/21/2024

<u>District I</u> 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**

QUESTIONS

Action 381432

QUESTIONS

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	381432
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites					
Incident ID (n#)	nAPP2424223470				
Incident Name	NAPP2424223470 EAST CAZA @ 0				
Incident Type	Oil Release				
Incident Status	Notification Accepted				

Location of Release Source			
Site Name	East Caza		
Date Release Discovered	08/23/2024		
Surface Owner	Private		

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	350
What is the estimated number of samples that will be gathered	6
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/11/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Gilbert Moreno (832) 541-7719
Please provide any information necessary for navigation to sampling site	32.069010°, -103.280755° From the intersection of Hwy 128 and Battle Axe Road, Drive southeast on Hwy 128 for 8.46 miles, Turn South onto the lease road; Drive south for 1.65 miles, Turn West; Drive West for 400 ft. and turn South; Drive South for 3.32 miles; Stop and walk west for 109 ft.

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

CONDITIONS

Action 381432

CONDITIONS

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	381432
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By		Condition Date
sworthen	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/6/2024



RE: [EXTERNAL] nAPP2424223470 Sampling Activities - Variance Request

From Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Date Thu 9/12/2024 12:44 PM

To Gilbert Moreno <gmoreno@earthsys.net>

Cc Worthen, Susan <Susan.Worthen@scmid.com>; Kristopher Williams <kwilliams@earthsys.net>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Good afternoon Gilbert,

Your variance request for the 2- business day sampling notification is approved.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

Thank you, Scott

Scott Rodgers • Environmental Specialist – Adv.

Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd



From: Gilbert Moreno <gmoreno@earthsys.net> Sent: Thursday, September 12, 2024 1:20 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Worthen, Susan <Susan.Worthen@scmid.com>; Kristopher Williams <kwilliams@earthsys.net>

Subject: [EXTERNAL] nAPP2424223470 Sampling Activities - Variance Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello,

Earth Systems R & R (ESRR) on behalf of Salt Creek Midstream would like to request a variance to the 2-business day sampling notification. Lab analytical data has confirmed further remediation will be required to meet the Closure Criteria and/ or Reclamation Standard. ESRR will be conducting the continued remediation on September 13, 2024, and anticipates conducting soil sampling activities on the

same day if granted a variance. A Notification of Sampling (C-141N) will be followed up based on approval of this request.

Proposed Time:	08:00-17:00 MST
Site Name:	Caza East 12
Incident Number:	nAPP2424223470
Sampling Surface Area:	600 sq. ft.
Samples to be collected:	3
Sampling Date:	09/13/2024
Who to Contact:	Gilbert Moreno P: 832-541-7719
Site GPS:	32.069010°, -103.280755°
Navigation to Site:	From the intersection of Hwy 128 and Battle Axe Road, Drive southeast on Hwy 128 for 8.46 miles, Turn South onto the lease road; Drive south for 1.65 miles, Turn West; Drive West for 400 ft. and turn South; Drive South for 3.32 miles; Stop and walk west for 109 ft.

Gilbert Moreno | Carlsbad Operations Manager- Project Geologist 1910 Resource Ct | Carlsbad NM, 88220 O. 575.323.9034 M. (832) 541-7719 | gmoreno@earthsys.net



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

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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

19.15.29.12 NMAC

Time sampling will commence

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

QUESTIONS

Action 383275

Q	UESTIONS				
Operator: SCM Operations, LLC 5775 N Sam Houston Pkwy W Houston, TX 77086		OGRID: 330368 Action Number: 383275 Action Type: [NOTIFY] Notification Of Sampling (C-141N)			
QUESTIONS					
Prerequisites					
Incident ID (n#)	nAPP2424223470				
Incident Name	NAPP2424223470 EA	ST CAZA @ 0			
Incident Type	Oil Release				
Incident Status	Initial C-141 Received	eived			
Location of Release Source					
Site Name	East Caza				
Date Release Discovered	08/23/2024				
Surface Owner	Private				
Sampling Event General Information					
Please answer all the questions in this group.	1				
What is the sampling surface area in square feet	600				
What is the estimated number of samples that will be gathered	3				
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of	00/12/2024				

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers Gilbert Moreno P: 832-541-7719 From the intersection of Hwy 128 and Battle Axe Road, Drive southeast on Hwy 128 for 8.46 Please provide any information necessary for navigation to sampling site miles, Turn South onto the lease road; Drive south for 1.65 miles, Turn West; Drive West for 400 ft. and turn South; Drive South for 3.32 miles; Stop and walk west for 109 ft.

09/13/2024

08:00 AM

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 383275

CONDITIONS

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	383275
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
sworthen	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/12/2024

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno Earth Systems Response and Restoration 4115 South County Road 1297 Odessa, Texas 79765

Generated 9/12/2024 3:08:47 PM Revision 1

JOB DESCRIPTION

Salt Creek - Caza East 12" Lee County, NM

JOB NUMBER

880-48261-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Brianna Tel

Authorized for release by Brianna Teel, Project Manager Brianna.Teel@et.eurofinsus.com (432)704-5440 Generated 9/12/2024 3:08:47 PM Revision 1

12

14

Client: Earth Systems Response and Restoration Project/Site: Salt Creek - Caza East 12"

Laboratory Job ID: 880-48261-1 SDG: Lee County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receint Checklists	21

3

4

6

8

9

11

12

Definitions/Glossary

Client: Earth Systems Response and Restoration

Job ID: 880-48261-1 Project/Site: Salt Creek - Caza East 12" SDG: Lee County, NM

Qualifiers

GC VOA Qualifier **Qualifier Description**

Surrogate recovery exceeds control limits, low biased. S1-S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid **CFU** Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RI Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Midland

Job ID: 880-48261-1

Case Narrative

Client: Earth Systems Response and Restoration

Project: Salt Creek - Caza East 12"

Job ID: 880-48261-1 **Eurofins Midland**

> Job Narrative 880-48261-1

REVISION

The report being provided is a revision of the original report sent on 9/12/2024. The report (revision 1) is being revised due to Revised to correct sampel depths.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/11/2024 12:07 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-1 (880-48261-1), SW-2 (880-48261-2) and SW-3 (880-48261-3).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-90478 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-90478/2).

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-90502/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-48165-A-1-E MSD). Evidence of matrix interferences is not obvious.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-90502 and analytical batch 880-90478 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-1 (880-48261-1). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Midland

Job ID: 880-48261-1

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek - Caza East 12"

SDG: Lee County, NM

Client Sample ID: SW-1

Date Collected: 09/11/24 08:25

Matrix: Solid

Date Received: 09/11/24 12:07

Sample Depth: 0-2.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/11/24 12:26	09/11/24 17:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/11/24 12:26	09/11/24 17:08	1
Ethylbenzene	< 0.00200	U	0.00200		mg/Kg		09/11/24 12:26	09/11/24 17:08	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399		mg/Kg		09/11/24 12:26	09/11/24 17:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/11/24 12:26	09/11/24 17:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/11/24 12:26	09/11/24 17:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130				09/11/24 12:26	09/11/24 17:08	1
1,4-Difluorobenzene (Surr)	99		70 - 130				09/11/24 12:26	09/11/24 17:08	1
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/11/24 17:08	1
					mg/Kg	<u>_</u>		09/11/24 17:08	1
: Method: SW846 8015 NM - Did	esel Range (Organics (DRO) (GC)	MDI			Prenared		·
Method: SW846 8015 NM - Die Analyte Total TPH	esel Range (Organics (Qualifier		MDL	mg/Kg Unit mg/Kg	D	Prepared	09/11/24 17:08 Analyzed 09/11/24 19:09	Dil Fac
Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - D	esel Range (Result <49.9	Organics (Qualifier U	DRO) (GC) RL 49.9		Unit		Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Die Analyte Total TPH	esel Range (Result <49.9	Organics (Qualifier U Organics Qualifier Qualifier	DRO) (GC) RL 49.9 (DRO) (GC)		Unit mg/Kg	=		Analyzed 09/11/24 19:09	Dil Fac
Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics	esel Range Result <49.9 Diesel Range Result	Organics (Qualifier U Organics Qualifier U	DRO) (GC) RL 49.9 (DRO) (GC) RL		Unit mg/Kg Unit	=	Prepared	Analyzed 09/11/24 19:09 Analyzed	Dil Fac
Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	esel Range Result <49.9 Diesel Range Result <49.9	Organics (Qualifier U Organics Qualifier U U	DRO) (GC) RL 49.9 (DRO) (GC) RL 49.9		Unit mg/Kg Unit mg/Kg	=	Prepared 09/11/24 10:57	Analyzed 09/11/24 19:09 Analyzed 09/11/24 19:09	Dil Fac
Method: SW846 8015 NM - Did Analyte Total TPH Method: SW846 8015B NM - Did Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	esel Range Result <49.9 Diesel Range Result <49.9 <49.9	Organics (Qualifier U Organics Qualifier U U	DRO) (GC) RL 49.9 (DRO) (GC) RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/11/24 10:57 09/11/24 10:57	Analyzed 09/11/24 19:09 Analyzed 09/11/24 19:09 09/11/24 19:09	Dil Fac Dil Fac 1

o-Terphenyl 91 70 - 130 09/11/24 10:57 09/11/24 19:09

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Date Collected: 09/11/24 08:30 Date Received: 09/11/24 12:07

Client Sample ID: SW-2

Sample Depth: 0-2.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/11/24 12:26	09/11/24 18:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/11/24 12:26	09/11/24 18:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/11/24 12:26	09/11/24 18:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/11/24 12:26	09/11/24 18:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/11/24 12:26	09/11/24 18:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/11/24 12:26	09/11/24 18:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/11/24 12:26	09/11/24 18:55	1

Eurofins Midland

Matrix: Solid

Lab Sample ID: 880-48261-2

Job ID: 880-48261-1

Matrix: Solid

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek - Caza East 12"

SDG: Lee County, NM

Lab Sample ID: 880-48261-2

Date Collected: 09/11/24 08:30 Date Received: 09/11/24 12:07

Client Sample ID: SW-2

Sample Depth: 0-2.5

Surrogate	%Recovery (Qualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88	70 - 130	09/11/24 12:26	09/11/24 18:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			09/11/24 18:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			09/11/24 19:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		09/11/24 10:57	09/11/24 19:24	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		09/11/24 10:57	09/11/24 19:24	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		09/11/24 10:57	09/11/24 19:24	1
Curromata	0/ Bosovory	Qualifier	Limita				Droporod	Anglyzod	Dil Ess

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	09/11/24 10:57	09/11/24 19:24	1
o-Terphenyl	110		70 - 130	09/11/24 10:57	09/11/24 19:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			09/11/24 19:35	1

Client Sample ID: SW-3 Lab Sample ID: 880-48261-3 **Matrix: Solid**

Date Collected: 09/11/24 08:35 Date Received: 09/11/24 12:07

Sample Depth: 0-2.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/11/24 12:26	09/11/24 19:22	1
Toluene	< 0.00199	U	0.00199		mg/Kg		09/11/24 12:26	09/11/24 19:22	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		09/11/24 12:26	09/11/24 19:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/11/24 12:26	09/11/24 19:22	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/11/24 12:26	09/11/24 19:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/11/24 12:26	09/11/24 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				09/11/24 12:26	09/11/24 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/11/24 12:26 09/11/24 19:22	1
1,4-Difluorobenzene (Surr)	81		70 - 130	09/11/24 12:26 09/11/24 19:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/11/24 19:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result Qualifi	er RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			09/11/24 19:40	1

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Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 880-48261-1 Project/Site: Salt Creek - Caza East 12" SDG: Lee County, NM

Client Sample ID: SW-3

Date Collected: 09/11/24 08:35 Date Received: 09/11/24 12:07

Sample Depth: 0-2.5

Lab Sample ID: 880-48261-3

Matrix: Solid

Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/11/24 10:57	09/11/24 19:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/11/24 10:57	09/11/24 19:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/11/24 10:57	09/11/24 19:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				09/11/24 10:57	09/11/24 19:40	1
o-Terphenyl	80		70 - 130				09/11/24 10:57	09/11/24 19:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL Ur	nit D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg	g/Kg		09/11/24 19:44	1		

Surrogate Summary

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek - Caza East 12"

Job ID: 880-48261-1

SDG: Lee County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
880-48165-A-1-D MS	Matrix Spike	103	103		
880-48165-A-1-E MSD	Matrix Spike Duplicate	131 S1+	108		
880-48261-1	SW-1	161 S1+	99		
880-48261-2	SW-2	117	88		
880-48261-3	SW-3	108	81		
LCS 880-90502/1-A	Lab Control Sample	137 S1+	91		
LCSD 880-90502/2-A	Lab Control Sample Dup	119	88		
MB 880-90502/5-A	Method Blank	61 S1-	103		

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
880-48246-A-1-C MS	Matrix Spike	110	101		
880-48246-A-1-D MSD	Matrix Spike Duplicate	99	92		
880-48261-1	SW-1	89	91		
880-48261-2	SW-2	106	110		
880-48261-3	SW-3	79	80		
LCS 880-90510/2-A	Lab Control Sample	106	101		
LCSD 880-90510/3-A	Lab Control Sample Dup	106	100		
MB 880-90510/1-A	Method Blank	76	80		

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Earth Systems Response and Restoration

Job ID: 880-48261-1 Project/Site: Salt Creek - Caza East 12" SDG: Lee County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-90502/5-A

Lab Sample ID: LCS 880-90502/1-A

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 90502

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/11/24 10:26	09/11/24 12:39	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130	09/11/24 10:26	09/11/24 12:39
1,4-Difluorobenzene (Surr)	103		70 - 130	09/11/24 10:26	09/11/24 12:39

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Matrix: Solid Analysis Batch: 90478 Prep Batch: 90502 Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits 70 - 130 0.100 0.09641 mg/Kg 96

Analyte Benzene Toluene 0.100 mg/Kg 107 70 - 130 0.1071 Ethylbenzene 0.100 mg/Kg 70 - 130 0.1124 112 0.200 m-Xylene & p-Xylene 0.2307 mg/Kg 115 70 - 130 o-Xylene 0.100 0.1128 mg/Kg 113 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-90502/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 90478

Prep Type: Total/NA Prep Batch: 90502

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09749		mg/Kg		97	70 - 130	1	35
Toluene	0.100	0.1036		mg/Kg		104	70 - 130	3	35
Ethylbenzene	0.100	0.1048		mg/Kg		105	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2150		mg/Kg		108	70 - 130	7	35
o-Xylene	0.100	0.1052		mg/Kg		105	70 - 130	7	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-48165-A-1-D MS

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 90502

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.1158		mg/Kg		116	70 - 130	
Toluene	<0.00200	U	0.100	0.07906		mg/Kg		79	70 - 130	

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Dil Fac

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek - Caza East 12"

Job ID: 880-48261-1

SDG: Lee County, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-48165-A-1-D MS

Lab Sample ID: 880-48165-A-1-E MSD

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 90502

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00200 U 0.100 0.07448 mg/Kg 74 70 - 130 m-Xylene & p-Xylene <0.00399 U 0.200 0.1529 mg/Kg 76 70 - 130 o-Xylene <0.00200 U 0.100 0.07384 74 mg/Kg 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 90478

Prep Type: Total/NA Prep Batch: 90502

%Rec **RPD**

Sample Sample Spike MSD MSD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene <0.00200 U 0.100 0.1016 70 - 130 35 mg/Kg 102 13 Toluene <0.00200 U 0.100 0.09557 35 mg/Kg 96 70 - 130 19 Ethylbenzene <0.00200 U 0.100 0.09884 mg/Kg 99 70 - 130 28 35 m-Xylene & p-Xylene <0.00399 U 0.200 0.2036 mg/Kg 102 70 - 130 28 35 <0.00200 U 0.100 0.09936 29 o-Xylene mg/Kg 99 70 - 13035

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-90510/1-A

Matrix: Solid

Analysis Batch: 90528

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 90510

MB MB Analyte Result Qualifier RL **MDL** Unit **Prepared** Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 09/11/24 08:00 09/11/24 08:41 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 09/11/24 08:00 09/11/24 08:41 mg/Kg C10-C28) Oil Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 09/11/24 08:00 09/11/24 08:41

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	09/11/24 08:00	09/11/24 08:41	1
o-Terphenyl	80		70 - 130	09/11/24 08:00	09/11/24 08:41	1

Lab Sample ID: LCS 880-90510/2-A

Matrix: Solid

Analysis Batch: 90528

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 90510

	Sp	oike	LCS	LCS				%Rec	
Analyte	Add	ded I	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics		000	860.4		mg/Kg		86	70 - 130	
(GRO)-C6-C10									
Diesel Range Organics (Over	1	000	801.6		mg/Kg		80	70 - 130	
C10-C28)									

Spike

Added

1000

1000

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek - Caza East 12"

Job ID: 880-48261-1 SDG: Lee County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-90510/2-A

Lab Sample ID: LCSD 880-90510/3-A

Lab Sample ID: 880-48246-A-1-C MS

Lab Sample ID: 880-48246-A-1-D MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 90528

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 90510

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	101		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 90528

Gasoline Range Organics

Prep Batch: 90510 RPD %Rec

81

%Rec Limits RPD Limit 87 70 - 130 2 20

Diesel Range Organics (Over C10-C28)

(GRO)-C6-C10

Matrix: Solid

Analysis Batch: 90528

Analyte

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	106	70 - 130
o-Terphenyl	100	70 - 130

Client Sample ID: Matrix Spike

70 - 130

Prep Type: Total/NA

Prep Batch: 90510

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec <50.0 U Gasoline Range Organics 996 1113 mg/Kg 112 70 - 130 (GRO)-C6-C10 996 Diesel Range Organics (Over 129 1200 mg/Kg 108 70 - 130

LCSD LCSD

874.9

812.7

Result Qualifier

Unit

mg/Kg

mg/Kg

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 110 o-Terphenyl 101 70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analysis Batch: 90528 Prep Batch: 90510 Spike MSD MSD %Rec **RPD**

Sample Sample Result Qualifier Added Result Qualifier Limits **RPD** Limit Analyte Unit %Rec <50.0 U 996 974.4 98 70 - 130 13 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 129 996 1110 mg/Kg 98 70 - 130 8 20

C10-C28)

Matrix: Solid

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	92		70 - 130

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Client: Earth Systems Response and Restoration

Project/Site: Salt Creek - Caza East 12"

Job ID: 880-48261-1

SDG: Lee County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-90525/1-A

Matrix: Solid

Lab Sample ID: LCS 880-90525/2-A

Client Sample ID: Method Blank **Prep Type: Soluble**

Analysis Batch: 90526

MB MB

Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte D Prepared 5.00 09/11/24 15:09 Chloride <5.00 U mg/Kg

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

Analysis Batch: 90526

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits Analyte 250 235.5 90 - 110 Chloride mg/Kg 94

Lab Sample ID: LCSD 880-90525/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Matrix: Solid

Analysis Batch: 90526

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits **RPD** Limit **Analyte** Unit %Rec Chloride 250 236.8 95 90 - 110 20 mg/Kg

Lab Sample ID: 880-48260-A-8-C MS **Client Sample ID: Matrix Spike Matrix: Solid Prep Type: Soluble**

Analysis Batch: 90526

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 251 260.1 23.7 mg/Kg 90 - 110

Lab Sample ID: 880-48260-A-8-D MSD

Matrix: Solid

Analysis Batch: 90526

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Limits Result Qualifier Unit %Rec **RPD** Limit Chloride 23.7 251 95 20 263.1 mg/Kg 90 - 110

QC Association Summary

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek - Caza East 12"

Job ID: 880-48261-1 SDG: Lee County, NM

GC VOA

Analysis Batch: 90478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48261-1	SW-1	Total/NA	Solid	8021B	90502
880-48261-2	SW-2	Total/NA	Solid	8021B	90502
880-48261-3	SW-3	Total/NA	Solid	8021B	90502
MB 880-90502/5-A	Method Blank	Total/NA	Solid	8021B	90502
LCS 880-90502/1-A	Lab Control Sample	Total/NA	Solid	8021B	90502
LCSD 880-90502/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	90502
880-48165-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	90502
880-48165-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	90502

Prep Batch: 90502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48261-1	SW-1	Total/NA	Solid	5035	_
880-48261-2	SW-2	Total/NA	Solid	5035	
880-48261-3	SW-3	Total/NA	Solid	5035	
MB 880-90502/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-90502/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-90502/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-48165-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-48165-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 90603

Lab Sample ID 880-48261-1	Client Sample ID SW-1	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
880-48261-2	SW-2	Total/NA	Solid	Total BTEX	
880-48261-3	SW-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 90510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48261-1	SW-1	Total/NA	Solid	8015NM Prep	
880-48261-2	SW-2	Total/NA	Solid	8015NM Prep	
880-48261-3	SW-3	Total/NA	Solid	8015NM Prep	
MB 880-90510/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-90510/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-90510/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-48246-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-48246-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 90528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48261-1	SW-1	Total/NA	Solid	8015B NM	90510
880-48261-2	SW-2	Total/NA	Solid	8015B NM	90510
880-48261-3	SW-3	Total/NA	Solid	8015B NM	90510
MB 880-90510/1-A	Method Blank	Total/NA	Solid	8015B NM	90510
LCS 880-90510/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	90510
LCSD 880-90510/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	90510
880-48246-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	90510
880-48246-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	90510

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QC Association Summary

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek - Caza East 12"

Job ID: 880-48261-1 SDG: Lee County, NM

GC Semi VOA

Analysis Batch: 90594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48261-1	SW-1	Total/NA	Solid	8015 NM	
880-48261-2	SW-2	Total/NA	Solid	8015 NM	
880-48261-3	SW-3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 90525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48261-1	SW-1	Soluble	Solid	DI Leach	
880-48261-2	SW-2	Soluble	Solid	DI Leach	
880-48261-3	SW-3	Soluble	Solid	DI Leach	
MB 880-90525/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-90525/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-90525/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-48260-A-8-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-48260-A-8-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 90526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48261-1	SW-1	Soluble	Solid	300.0	90525
880-48261-2	SW-2	Soluble	Solid	300.0	90525
880-48261-3	SW-3	Soluble	Solid	300.0	90525
MB 880-90525/1-A	Method Blank	Soluble	Solid	300.0	90525
LCS 880-90525/2-A	Lab Control Sample	Soluble	Solid	300.0	90525
LCSD 880-90525/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	90525
880-48260-A-8-C MS	Matrix Spike	Soluble	Solid	300.0	90525
880-48260-A-8-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	90525

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Client: Earth Systems Response and Restoration

Project/Site: Salt Creek - Caza East 12"

SDG: Lee County, NM

Client Sample ID: SW-1

Date Collected: 09/11/24 08:25 Date Received: 09/11/24 12:07

Lab Sample ID: 880-48261-1

Matrix: Solid

Job ID: 880-48261-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	90502	09/11/24 12:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90478	09/11/24 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90603	09/11/24 17:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			90594	09/11/24 19:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	90510	09/11/24 10:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90528	09/11/24 19:09	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	90525	09/11/24 12:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90526	09/11/24 19:26	CH	EET MID

Lab Sample ID: 880-48261-2 Client Sample ID: SW-2 **Matrix: Solid**

Date Collected: 09/11/24 08:30 Date Received: 09/11/24 12:07

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 5035 90502 09/11/24 12:26 **EET MID** Prep 5.00 g 5 mL MNR Total/NA 8021B Analysis 5 mL 5 mL 90478 09/11/24 18:55 MNR **EET MID** 1 Total/NA Analysis Total BTEX 90603 09/11/24 18:55 SM **EET MID** 1 Total/NA 8015 NM Analysis 1 90594 09/11/24 19:24 SM **EET MID** Total/NA Prep 8015NM Prep 9.95 g 10 mL 90510 09/11/24 10:57 EL **EET MID** Total/NA 8015B NM Analysis 1 uL 1 uL 90528 09/11/24 19:24 TKC **EET MID** Soluble DI Leach 5.03 g 50 mL 90525 09/11/24 12:57 SA **EET MID** Leach 09/11/24 19:35 CH Soluble Analysis 300.0 1 50 mL 50 mL 90526 **EET MID**

Client Sample ID: SW-3 Lab Sample ID: 880-48261-3 Date Collected: 09/11/24 08:35 **Matrix: Solid**

Date Received: 09/11/24 12:07

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	90502	09/11/24 12:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90478	09/11/24 19:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90603	09/11/24 19:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			90594	09/11/24 19:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	90510	09/11/24 10:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90528	09/11/24 19:40	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	90525	09/11/24 12:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90526	09/11/24 19:44	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek - Caza East 12"

Job ID: 880-48261-1

SDG: Lee County, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Progra	am	Identification Number	Expiration Date
Texas	NELA)	T104704400	06-30-25
The following analyte	s are included in this rene	rt but the laboratory is a	not certified by the governing author	ity. This list may include an
The following analyte	s are included in this repo	it, but the laboratory is i	not certified by the governing author	ity. This list may include ar
,	does not offer certification	,	not certified by the governing author	ity. Triis list may include ai
,	•	,	Analyte	ity. This list may include ar
for which the agency	does not offer certification	•	, , ,	ity. This list may include a

Method Summary

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek - Caza East 12"

Job ID: 880-48261-1 SDG: Lee County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

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Sample Summary

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek - Caza East 12"

Job ID: 880-48261-1

SDG: Lee County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-48261-1	SW-1	Solid	09/11/24 08:25	09/11/24 12:07	0-2.5
880-48261-2	SW-2	Solid	09/11/24 08:30	09/11/24 12:07	0-2.5
880-48261-3	SW-3	Solid	09/11/24 08:35	09/11/24 12:07	0-2.5

eurofins

Xenco

Environment Testing

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Turn Around ANALYSIS REQUEST Pres. Code Code Due Date: 24hr 24hr TAT starts the day received by the lab. if received by 4:30pm Wet Ice: Yes No ID: Parameter Reading: Parameter Time Sampled Depth Comp Cont PH EE Co
M NM ANALYSIS R
BTEX - NM Chloride - NM ANALYSIS R
ANALYSIS R
ANALYSIS REQUEST

PO# SAMPLE RE

City, State ZIP

Midland TX 79705

432-894-6385

Email: gmoreno@earthsys.net City, State ZIP: Address:

Project Manager:

Company Name:

Earth Systems R&R Gilbert Moreno

Company Name: Bill to: (if different)

Earth Systems R&R

State of Project:

Deliverables: EDD

ADaPT

Reporting: Level II | Level III | PST/UST | TRRP

Level N

Program: UST/PST ☐ PRP☐ Brownfields☐ RRQ☐

Superfund

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Work Order Comments

5114 West County Road 128

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Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-48261-1 SDG Number: Lee County, NM

List Source: Eurofins Midland

Login Number: 48261

List Number: 1

Creator: Rodriguez, Leticia

J		
Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Released to Imaging: 10/28/2024 3:29:15 PM

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno Earth Systems Response and Restoration 4115 South County Road 1297 Odessa, Texas 79765

Generated 9/18/2024 1:24:57 PM Revision 1

JOB DESCRIPTION

Salt Creek-Caza East 12" Lea County, NM

JOB NUMBER

880-48246-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Brianna Tel

Authorized for release by Brianna Teel, Project Manager Brianna.Teel@et.eurofinsus.com

(432)704-5440

Generated 9/18/2024 1:24:57 PM Revision 1

13

Client: Earth Systems Response and Restoration Project/Site: Salt Creek-Caza East 12"

Laboratory Job ID: 880-48246-1 SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receint Checklists	22

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12

Definitions/Glossary

Client: Earth Systems Response and Restoration

Job ID: 880-48246-1 SDG: Lea County, NM Project/Site: Salt Creek-Caza East 12"

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Surrogate recovery exceeds control limits, low biased. S1-S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid **CFU** Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RI Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Job ID: 880-48246-1

Case Narrative

Client: Earth Systems Response and Restoration

Project: Salt Creek-Caza East 12"

Job ID: 880-48246-1 **Eurofins Midland**

> Job Narrative 880-48246-1

REVISION

The report being provided is a revision of the original report sent on 9/12/2024. The report (revision 1) is being revised due to Revised to add updated COC to report.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/11/2024 9:31 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 16.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (880-48246-1), CS-2 (880-48246-2), CS-3 (880-48246-3), CS-4 (880-48246-4), CS-5 (880-48246-5) and SW-1 (880-48246-6).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-90478 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-90478/2).

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-90502/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-48165-A-1-E MSD). Evidence of matrix interferences is not obvious.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-90502 and analytical batch 880-90478 was outside the control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-3 (880-48246-3). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Earth Systems Response and Restoration

Job ID: 880-48246-1 Project/Site: Salt Creek-Caza East 12" SDG: Lea County, NM

Client Sample ID: CS-1 Lab Sample ID: 880-48246-1 Date Collected: 09/11/24 08:00 Matrix: Solid

Date Received: 09/11/24 09:31

Sample	Depth: 2.5
--------	------------

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/11/24 10:26	09/11/24 15:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/11/24 10:26	09/11/24 15:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/11/24 10:26	09/11/24 15:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/11/24 10:26	09/11/24 15:47	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/11/24 10:26	09/11/24 15:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/11/24 10:26	09/11/24 15:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				09/11/24 10:26	09/11/24 15:47	1
1,4-Difluorobenzene (Surr)	93		70 - 130				09/11/24 10:26	09/11/24 15:47	1

Method: TAL SOP Total BTEX	- Total BTE	X Calculation	on						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/11/24 15:47	1

Method: SW846 8015 NM - Die	esel Range O	rganics (DF	(GC) (GC)						
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	129		50.0		mg/Kg			09/11/24 17:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/11/24 10:57	09/11/24 17:08	1
Diesel Range Organics (Over C10-C28)	129		50.0		mg/Kg		09/11/24 10:57	09/11/24 17:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/11/24 10:57	09/11/24 17:08	1
Surrogate	%Recovery	Qualifier	l imits				Prepared	Analyzed	Dil Fac

our oguto	fortessity qualifier	_,,,,,,,	. ropa.ca	7111a1y20a	<i>Dii i ao</i>
1-Chlorooctane	86	70 - 130	09/11/24 10:57	09/11/24 17:08	1
o-Terphenyl	93	70 - 130	09/11/24 10:57	09/11/24 17:08	1
Г., .,,					

Method. EPA 300.0 - Amons, i	on Chromatography - S	Oluble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.9	4.98	mg/Kg			09/11/24 15:35	1

Client Sample ID: CS-2 Lab Sample ID: 880-48246-2 **Matrix: Solid**

Date Collected: 09/11/24 08:05 Date Received: 09/11/24 09:31

Sample Depth: 2.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/11/24 10:26	09/11/24 16:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/11/24 10:26	09/11/24 16:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/11/24 10:26	09/11/24 16:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/11/24 10:26	09/11/24 16:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/11/24 10:26	09/11/24 16:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/11/24 10:26	09/11/24 16:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				09/11/24 10:26	09/11/24 16:14	1

Client: Earth Systems Response and Restoration

Job ID: 880-48246-1 Project/Site: Salt Creek-Caza East 12" SDG: Lea County, NM

Client Sample ID: CS-2 Lab Sample ID: 880-48246-2

Date Collected: 09/11/24 08:05 Matrix: Solid Date Received: 09/11/24 09:31

Sample Depth: 2.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate %Recovery Qualifier I imits Prepared Analyzed Dil Fac 09/11/24 10:26 70 - 130 09/11/24 16:14 1,4-Difluorobenzene (Surr) 90

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00402 U 0.00402 mg/Kg 09/11/24 16:14

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier **MDL** Unit D Prepared Analyzed Dil Fac **Total TPH** 397 49.7 mg/Kg 09/11/24 17:54

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Result Qualifier **MDL** Unit D Dil Fac **Analyte** Analyzed Prepared <49.7 U 49.7 09/11/24 10:57 09/11/24 17:54 Gasoline Range Organics mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 49.7 mg/Kg 09/11/24 10:57 09/11/24 17:54 397 C10-C28) Oil Range Organics (Over C28-C36) <49.7 U 49.7 09/11/24 10:57 09/11/24 17:54 mg/Kg

Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 1-Chlorooctane 96 70 - 130 09/11/24 10:57 09/11/24 17:54 o-Terphenyl 105 70 - 130 09/11/24 10:57 09/11/24 17:54

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac Chloride 4.98 09/11/24 16:02 77.9 mg/Kg

Client Sample ID: CS-3 Lab Sample ID: 880-48246-3 **Matrix: Solid**

Date Collected: 09/11/24 08:10 Date Received: 09/11/24 09:31

Sample Depth: 2.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RI **MDL** Unit D Prepared Dil Fac Analyzed Benzene <0.00202 U 0.00202 mg/Kg 09/11/24 10:26 09/11/24 16:41 Toluene <0.00202 U 0.00202 mg/Kg 09/11/24 10:26 09/11/24 16:41 Ethylbenzene <0.00202 U 0.00202 mg/Kg 09/11/24 10:26 09/11/24 16:41 m-Xylene & p-Xylene <0.00404 U 0.00404 09/11/24 10:26 09/11/24 16:41 mg/Kg o-Xylene <0.00202 U 0.00202 mg/Kg 09/11/24 10:26 09/11/24 16:41 Xylenes, Total <0.00404 U 0.00404 mg/Kg 09/11/24 10:26 09/11/24 16:41 Surrogate %Recovery Qualifier Limits Prepared Analyzed

Dil Fac 165 S1+ 70 - 130 09/11/24 16:41 4-Bromofluorobenzene (Surr) 09/11/24 10:26 1,4-Difluorobenzene (Surr) 96 70 - 130 09/11/24 10:26 09/11/24 16:41

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared <0.00404 U Total BTEX 0.00404 09/11/24 16:41 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier MDL Unit D Prepared Analyzed Dil Fac **Total TPH** 192 49.9 mg/Kg 09/11/24 18:09

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 880-48246-1 Project/Site: Salt Creek-Caza East 12" SDG: Lea County, NM

Client Sample ID: CS-3

Date Collected: 09/11/24 08:10 Date Received: 09/11/24 09:31

Sample Depth: 2.5

Lab	Sam	ple	ID:	880	-48	240	3-3

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/11/24 10:57	09/11/24 18:09	1
Diesel Range Organics (Over C10-C28)	192		49.9		mg/Kg		09/11/24 10:57	09/11/24 18:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/11/24 10:57	09/11/24 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				09/11/24 10:57	09/11/24 18:09	1
o-Terphenyl	88		70 - 130				09/11/24 10:57	09/11/24 18:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<4.98	U	4.98		mg/Kg			09/11/24 16:11	1		

Surrogate Summary

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek-Caza East 12"

Job ID: 880-48246-1

SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percent S	Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-48165-A-1-D MS	Matrix Spike	103	103	
880-48165-A-1-E MSD	Matrix Spike Duplicate	131 S1+	108	
880-48246-1	CS-1	113	93	
880-48246-2	CS-2	127	90	
880-48246-3	CS-3	165 S1+	96	
LCS 880-90502/1-A	Lab Control Sample	137 S1+	91	
LCSD 880-90502/2-A	Lab Control Sample Dup	119	88	
MB 880-90502/5-A	Method Blank	61 S1-	103	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Sui	rrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-48246-1	CS-1	86	93	
880-48246-1 MS	CS-1	110	101	
880-48246-1 MSD	CS-1	99	92	
880-48246-2	CS-2	96	105	
880-48246-3	CS-3	82	88	
LCS 880-90510/2-A	Lab Control Sample	106	101	
LCSD 880-90510/3-A	Lab Control Sample Dup	106	100	
MB 880-90510/1-A	Method Blank	76	80	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek-Caza East 12"

Job ID: 880-48246-1 SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-90502/5-A

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 90502

	MB	МВ						•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
o-Xylene	< 0.00200	U	0.00200		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/11/24 10:26	09/11/24 12:39	1
	MR	MR							

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130	09/11/24 10:26	09/11/24 12:39	1
1,4-Difluorobenzene (Surr)	103		70 - 130	09/11/24 10:26	09/11/24 12:39	1

Lab Sample ID: LCS 880-90502/1-A

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 90502

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09641		mg/Kg		96	70 - 130	
Toluene	0.100	0.1071		mg/Kg		107	70 - 130	
Ethylbenzene	0.100	0.1124		mg/Kg		112	70 - 130	
m-Xylene & p-Xylene	0.200	0.2307		mg/Kg		115	70 - 130	
o-Xylene	0.100	0.1128		mg/Kg		113	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-90502/2-A

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 90502

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09749		mg/Kg		97	70 - 130	1	35
Toluene	0.100	0.1036		mg/Kg		104	70 - 130	3	35
Ethylbenzene	0.100	0.1048		mg/Kg		105	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2150		mg/Kg		108	70 - 130	7	35
o-Xylene	0.100	0.1052		mg/Kg		105	70 - 130	7	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1.4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-48165-A-1-D MS

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 90502

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.1158		mg/Kg		116	70 - 130	
Toluene	<0.00200	U	0.100	0.07906		mg/Kg		79	70 - 130	

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek-Caza East 12"

Job ID: 880-48246-1 SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-48165-A-1-D MS

Matrix: Solid

Analysis Batch: 90478

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 90502

Sample	Sample	Spike	MS	MS				%Rec		
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
<0.00200	U	0.100	0.07448		mg/Kg		74	70 - 130		
< 0.00399	U	0.200	0.1529		mg/Kg		76	70 - 130		
<0.00200	U	0.100	0.07384		mg/Kg		74	70 - 130		
	<pre>Result <0.00200 <0.00399</pre>	Result Qualifier U	Result Qualifier Added <0.00200 U 0.100 <0.00399 U 0.200	Result Qualifier Added Result <0.00200 U	Result Qualifier Added Result Qualifier <0.00200 U	Result Qualifier Added Result Qualifier Unit <0.00200	Result Qualifier Added Added On the control of the contr	Result Qualifier Added Result Qualifier Unit mg/Kg D %Rec mg/Kg <0.00200 U	Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00200	Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00200

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 90478

Lab Sample ID: 880-48165-A-1-E MSD

Prep Type: Total/NA

Prep Batch: 90502 **RPD**

Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene <0.00200 U 0.100 0.1016 102 70 - 130 13 35 mg/Kg Toluene <0.00200 U 0.100 0.09557 70 - 130 35 mg/Kg 96 19 70 - 130 Ethylbenzene <0.00200 U 0.100 0.09884 mg/Kg 99 28 35 m-Xylene & p-Xylene <0.00399 U 0.200 0.2036 mg/Kg 102 70 - 130 28 35 <0.00200 U 0.100 0.09936 29 o-Xylene mg/Kg 99 70 - 130

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-90510/1-A

Matrix: Solid

Analysis Batch: 90528

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 90510

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/11/24 08:00	09/11/24 08:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/11/24 08:00	09/11/24 08:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/11/24 08:00	09/11/24 08:41	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76	·	70 - 130	09/11/24 08:00	09/11/24 08:41	1
o-Terphenyl	80		70 - 130	09/11/24 08:00	09/11/24 08:41	1

Lab Sample ID: LCS 880-90510/2-A

Matrix: Solid

Analysis Batch: 90528

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 90510

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	860.4		mg/Kg		86	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	801.6		mg/Kg		80	70 - 130	
C10-C28)								

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek-Caza East 12"

Job ID: 880-48246-1 SDG: Lea County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-90510/2-A

Lab Sample ID: LCSD 880-90510/3-A

Lab Sample ID: 880-48246-1 MS

Matrix: Solid

Analysis Batch: 90528

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 90510

LCS LCS %Recovery Qualifier

Limits Surrogate 1-Chlorooctane 106 70 - 130 o-Terphenyl 101 70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 90528

Prep Type: Total/NA

Prep Batch: 90510

LCSD LCSD RPD %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 874.9 mg/Kg 87 70 - 130 2 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 812.7 mg/Kg 81 70 - 130 20

C10-C28)

Matrix: Solid

Analysis Batch: 90528

LCSD LCSD

Sample Sample

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	100		70 - 130

Client Sample ID: CS-1 Prep Type: Total/NA

Prep Batch: 90510 % Poc

	Sample	Sample	Spike	IVIO	IVIO				/01 \C C	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	1113		mg/Kg		112	70 - 130	
Diesel Range Organics (Over	129		996	1200		mg/Kg		108	70 - 130	
C10 C28\										

MS MS

Snike

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 110 o-Terphenyl 101 70 - 130

Lab Sample ID: 880-48246-1 MSD **Client Sample ID: CS-1 Matrix: Solid Prep Type: Total/NA**

Analysis Batch: 90528

Prep Batch: 90510 Sample Sample Spike MSD MSD %Rec **RPD**

Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec <50.0 U 996 974.4 98 70 - 130 13 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 129 996 1110 mg/Kg 98 70 - 130 8 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	92		70 - 130

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek-Caza East 12"

Job ID: 880-48246-1

SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-90525/1-A

Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 90526

MB MB

Sample Sample

13.9

Result Qualifier

Analyte Result Qualifier RL **MDL** Unit Analyzed Dil Fac D **Prepared** 5.00 09/11/24 15:09 Chloride <5.00 U mg/Kg

Lab Sample ID: LCS 880-90525/2-A

Client Sample ID: Lab Control Sample Prep Type: Soluble

Matrix: Solid

Analysis Batch: 90526

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 235.5 90 - 110 mg/Kg 94

Lab Sample ID: LCSD 880-90525/3-A

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Matrix: Solid

Analysis Batch: 90526

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Limits **RPD** Limit Unit D %Rec Chloride 250 236.8 95 90 - 110 20 mg/Kg

Lab Sample ID: 880-48246-1 MS

Matrix: Solid

Client Sample ID: CS-1

Prep Type: Soluble

Analysis Batch: 90526

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	13.9		249	247.4		mg/Kg	_	94	90 - 110	

Spike

Added

249

MSD MSD

245.3

Result Qualifier

Unit

mg/Kg

Lab Sample ID: 880-48246-1 MSD

Matrix: Solid

Analyte

Chloride

Analysis Batch: 90526

Client Sample ID: CS-1 Prep Type: Soluble

RPD %Rec Limits %Rec **RPD** Limit 93 20 90 - 110

QC Association Summary

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek-Caza East 12"

Job ID: 880-48246-1 SDG: Lea County, NM

GC VOA

Analysis Batch: 90478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48246-1	CS-1	Total/NA	Solid	8021B	90502
880-48246-2	CS-2	Total/NA	Solid	8021B	90502
880-48246-3	CS-3	Total/NA	Solid	8021B	90502
MB 880-90502/5-A	Method Blank	Total/NA	Solid	8021B	90502
LCS 880-90502/1-A	Lab Control Sample	Total/NA	Solid	8021B	90502
LCSD 880-90502/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	90502
880-48165-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	90502
880-48165-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	90502

Prep Batch: 90502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48246-1	CS-1	Total/NA	Solid	5035	
880-48246-2	CS-2	Total/NA	Solid	5035	
880-48246-3	CS-3	Total/NA	Solid	5035	
MB 880-90502/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-90502/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-90502/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-48165-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-48165-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 90602

Lab Sample ID 880-48246-1	Client Sample ID	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
880-48246-2	CS-2	Total/NA	Solid	Total BTEX	
880-48246-3	CS-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 90510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48246-1	CS-1	Total/NA	Solid	8015NM Prep	
880-48246-2	CS-2	Total/NA	Solid	8015NM Prep	
880-48246-3	CS-3	Total/NA	Solid	8015NM Prep	
MB 880-90510/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-90510/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-90510/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-48246-1 MS	CS-1	Total/NA	Solid	8015NM Prep	
880-48246-1 MSD	CS-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 90528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48246-1	CS-1	Total/NA	Solid	8015B NM	90510
880-48246-2	CS-2	Total/NA	Solid	8015B NM	90510
880-48246-3	CS-3	Total/NA	Solid	8015B NM	90510
MB 880-90510/1-A	Method Blank	Total/NA	Solid	8015B NM	90510
LCS 880-90510/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	90510
LCSD 880-90510/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	90510
880-48246-1 MS	CS-1	Total/NA	Solid	8015B NM	90510
880-48246-1 MSD	CS-1	Total/NA	Solid	8015B NM	90510

QC Association Summary

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek-Caza East 12"

Job ID: 880-48246-1 SDG: Lea County, NM

GC Semi VOA

Analysis Batch: 90592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48246-1	CS-1	Total/NA	Solid	8015 NM	
880-48246-2	CS-2	Total/NA	Solid	8015 NM	
880-48246-3	CS-3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 90525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48246-1	CS-1	Soluble	Solid	DI Leach	_
880-48246-2	CS-2	Soluble	Solid	DI Leach	
880-48246-3	CS-3	Soluble	Solid	DI Leach	
MB 880-90525/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-90525/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-90525/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-48246-1 MS	CS-1	Soluble	Solid	DI Leach	
880-48246-1 MSD	CS-1	Soluble	Solid	DI Leach	

Analysis Batch: 90526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-48246-1	CS-1	Soluble	Solid	300.0	90525
880-48246-2	CS-2	Soluble	Solid	300.0	90525
880-48246-3	CS-3	Soluble	Solid	300.0	90525
MB 880-90525/1-A	Method Blank	Soluble	Solid	300.0	90525
LCS 880-90525/2-A	Lab Control Sample	Soluble	Solid	300.0	90525
LCSD 880-90525/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	90525
880-48246-1 MS	CS-1	Soluble	Solid	300.0	90525
880-48246-1 MSD	CS-1	Soluble	Solid	300.0	90525

Eurofins Midland

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Client: Earth Systems Response and Restoration

Project/Site: Salt Creek-Caza East 12"

Job ID: 880-48246-1 SDG: Lea County, NM

Lab Sample ID: 880-48246-1

Matrix: Solid

Client Sample ID: CS-1 Date Collected: 09/11/24 08:00 Date Received: 09/11/24 09:31

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	90502	09/11/24 10:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90478	09/11/24 15:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90602	09/11/24 15:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			90592	09/11/24 17:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	90510	09/11/24 10:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90528	09/11/24 17:08	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	90525	09/11/24 12:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90526	09/11/24 15:35	CH	EET MID

Client Sample ID: CS-2 Lab Sample ID: 880-48246-2 Date Collected: 09/11/24 08:05 **Matrix: Solid**

Date Received: 09/11/24 09:31

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	90502	09/11/24 10:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90478	09/11/24 16:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90602	09/11/24 16:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			90592	09/11/24 17:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	90510	09/11/24 10:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90528	09/11/24 17:54	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	90525	09/11/24 12:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90526	09/11/24 16:02	CH	EET MID

Client Sample ID: CS-3 Lab Sample ID: 880-48246-3 Date Collected: 09/11/24 08:10 Matrix: Solid

Date Received: 09/11/24 09:31

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	90502	09/11/24 10:26	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90478	09/11/24 16:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			90602	09/11/24 16:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			90592	09/11/24 18:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	90510	09/11/24 10:57	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90528	09/11/24 18:09	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	90525	09/11/24 12:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90526	09/11/24 16:11	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek-Caza East 12"

Job ID: 880-48246-1 SDG: Lea County, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Progra	am	Identification Number	Expiration Date
exas	NELAI	Р	T104704400	06-30-25
The following analyte	s are included in this reno	rt but the laboratory is r	not certified by the governing authori	ty This list may inclu
The following analyte	s are included in this repo	it, but the laboratory is i	ior certified by the governing authori	ity. Triis list may includ
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Method Summary

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek-Caza East 12"

Job ID: 880-48246-1

SDG: Lea County, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Earth Systems Response and Restoration

Project/Site: Salt Creek-Caza East 12"

Job ID: 880-48246-1 SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
880-48246-1	CS-1	Solid	09/11/24 08:00	09/11/24 09:31	
880-48246-2	CS-2	Solid	09/11/24 08:05	09/11/24 09:31	
880-48246-3	CS-3	Solid	09/11/24 08:10	09/11/24 09:31	2

💸 eurofins **Environment Testing** Xenco

Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

																			www.	xenco.	.com	Page		OT				
Project Manager:	Gilbert Moreno		a ¹ 3		Bill to: (if differen	it)	er er	Earth	Syster	ns R&	R						opilar pri	CAST!	W	ork Or	der C	omment	s	s = 1 ^{2 *}				
Company Name:	Earth Systems	Earth Systems R&R					Company Name:													Program: UST/PST PRF Brownfields RRC Superfund								
Address:	5114 West Cou	nty Ro	ad 128		Address:	· Warn	s" .;		A	079	10		á i		10	State			7									
City, State ZIP:	Midland TX 797	05	0			as .	1 . St. 1		- PT - 1	- 4	Y 1,00000	7"-"X 15.00		12.5	Report	ing: Le	vel II	Le	el III	PST	/UST	TRRP	Level IV					
Phone:	432-894-6385		8.3	Email:	City, State ZIP: gmoreno@ea		net	Teve a			3	1,31		1.4		Delive	ables	EDD		A	ADaPT		Other.	-V 4				
Project Name:	Salt Creek -	Caza E	ast 12"		Turn Around		y /	32	ie :	F - 12 11	V 04#	1 7 7 1	ANAL	YSIS	REQ	UEST		15	57.1			Pres	ervative	Codes				
Project Number:	2	419		Routine	✓ Rush	200	Pres.	4.5		in the											1	None: NO	DI	Water: H ₂ O				
Project Location:	Lee Co	ounty, h	MM	Due Date:	24hr		# 17		3.	1000	(0 ° -). 7 & 7	13	200		det.	7		,			1	Cool: Cool	M	eOH: Me				
Sampler's Name:		Pinsor			e day received by	the lab, if	120				r .											HCL: HC		NO ₃ : HN				
PO#:		n - 1	1	Of the section of the	ceived by 4:30pm		20). 1.	1				200	9 2							H ₂ SO ₄ : H ₂		aOH: Na				
SAMPLE RECE		lank:	Yes No	Wet Ice:	(Yes) N	0	Paramete		100	21 II.								V.				H ₃ PO ₄ : HF						
Samples Received	Intact: Yes	No A	Thermomete	er ID:	348		arai		6	10											1	NaHSO ₄ . I	NABIS					
Cooler Custody Sea	als: Yes No	NIA	Correction F	actor.	1	,	4			Y							- 1				1	Na ₂ S ₂ O ₃	NaSO ₃					
Sample Custody Se	eals: Yes No	N/A	emperature	e Reading:	114.	(a 3.														7	Zn Acetate	e+NaOH:	Zn				
Total Containers:			Corrected T	emperature:	16.	(p			-	N.											1	NaOH+As	corbic Aci	d: SAPC				
Sample Ide	entification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	TPH - NM	BTEX - NM	Chloride												Sam	ple Con	nments				
CS	G-1	S	9/11/2024	8:00	2.5	Comp	1	Х	Х	Х																		
CS	3-2	S	9/11/2024	8:05	2.5	Comp	1	Х	X	Х	1 1				- 1													
CS	3-3	S	9/11/2024	8:10	2.5	Comp	1	X	X	Х		178	7			in 2												
cs	4	S	9/11/2024	8:15	2.5	Comp	1	X	X	X	-G					1 .												
_ cs	3-5	S	9/11/2024	8:20	2.5	Comp	1	×	×	X	G	1.																
-s w		S	9/11/2024	8.25	0 - 2.5	Comp	1	х	X	-X	è	1	<i>µ</i>					7000										
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Total 200.7 / 6 Circle Method(s)				8RCRA 1	3PPM Texas	11 AI	SD A	s Ba	Ве	в Са	Ca	Cr Cc	Cu	re P	о мд	Mn I	NO NI	K	e Ag				470 / 74					
																			_			210.171						
Notice: Signature of this of service. Eurofins Xe of Eurofins Xenco. A m	nco will be liable only f	or the co	et of samples a	nd shall not as:	sume any responsil	bility for a	ny losse	s or ex	penses	Incurre	d by the	e client	f such I	osses a	re due	to circur	stance	beyo	nd the	ontrol	d.	8 2 IX						
Relinquished b	y: (Signature)		Rece	eived by: (S	ignature)			Date	/Time	700	Re	elinqui	shed	by: (S	ignati	ure)	tik	Rece	eived I	y: (Si	gnatur	re)	Dat	e/Time				
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Environment Testing

Xenco

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (808) 794-1296 Hobbs. NM (575) 392-7550. Carlshad. NM (575) 988-3199

880-48246 Chain of Custody

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Project Manager:	Gilbert Moreno					Bill to: (if different)				Earth Systems R&R								Work Order Comments								
Company Name:	Earth Systems R&R					Company Name:												Program: UST/PST PRF Brownfield RRC Superfun								
Address:	5114 West County Road 128					Address:												Project		F (F (F))		1, 2, 2				
City, State ZIP:	Midland TX 79705					City, State ZIP		Selection	the state of the s												☐ PS	T/UST	TRRP Level I			
Phone: 432-894-6385					Email:	gmoreno@ea	arthsys.r	net	e de la companya de l								Deliveral	oles: El	DD []	ADaP'	r 🗆 (Other:			
Project Name:	1	Salt Creek	- Caza E	ast 12"	-	Turn Around		y /	32	in i	1.00	A 644 - 5	174	ANALY	/SIS F	REQU	JEST	15	-		Preservative Codes					
Project Number:			2419		Routine	✓ Rush	200	Pres.	2.5	1 0	in the		- 1								None: NO	DI Water: H ₂				
Project Location:		Lee C	ounty, I	MM	Due Date:	24hr		*		35	1000	100 mg	17.	200	1 4	Part -		1				Cool: Coo	MeOH: Me			
Sampler's Name:		Joe	Pinso	n ···		e day received by	the lab, if					r 2										HCL: HC	HNO ₃ : HN			
O#:		-		-2	rec	ceived by 4:30pm		2							wn I	0						H ₂ SO ₄ : H ₂	NaOH: Na			
AMPLE RECE	IPT	Temp E	Blank	Yes No	Wet Ice:	(Yes) N	(Yes) No				p 1	1 2										H₃PO₄: HF	•			
Samples Received I	ntact:	Yes	No A	Thermomet	er ID:	328		Parameters		e' c	e										1	NaHSO ₄ .	NABIS			
Cooler Custody Sea	ils:	Yes No	NIA	Correction F	actor:	1		2 2			8 .											Na ₂ S ₂ O ₃	NaSO ₃			
Sample Custody Se	als:	Yes No N/A Temperatur			e Reading:	16.	l	4 1							1							Zn Acetat	e+NaOH: Zn			
Total Containers:				Corrected T	emperature:	16.	6	- A		2	N.			- 1								NaOH+As	corbic Acid: SAPC			
Sample Ide	ntificat	ntification		Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	TPH - NM	BTEX - NM	Chloride - NM											Sam	ple Comments			
CS	-1		S	9/11/2024	8:00	2.5	Comp	1	Х	X	Х															
cs	-2		S	9/11/2024	8:05	2.5	Comp	1	Х	X	Х	2 2	- x			1										
CS	-3		S	9/11/2024	8:10	2.5	Comp	1	X	X	Х		1	7			2.2									
_cs	4		S	9/11/2024	8:15	2.5	Comp	1	X	X	X	-9														
_ cs	-5		S	9/11/2024	8:20	2.5	Comp	1	×	×	X	G	$\mathcal{A}_{R}^{(2)}$		2 .											
-sw	11		S	9/11/2024	8.25	0 - 2.5	Comp	1	X	X	X	Ġ	1	gr.				350								
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Total 200.7 / 6 Circle Method(s) a otice: Signature of this	and Me		e analy			3PPM Texas														Hg:	-		U V Zn 470 / 7471			
service. Eurofins Xen Eurofins Xenco. A mi	ico will b	e liable only	for the co	st of samples a	nd shall not as	sume any responsi	bility for a	iny loss	es or ex	penses	Incurre	d by the	client l	f such lo	sses are	due to	circums	ances be	yond the	control	ted.					
Relinquished b					eived by: (S			T		/Time				shed b						by: (S		ire)	Date/Time			
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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-48246-1 SDG Number: Lea County, NM

List Source: Eurofins Midland

Login Number: 48246 List Number: 1

Creator: Vasquez, Julisa

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Gilbert Moreno Earth Systems Response and Restoration 4115 South County Road 1297 Odessa, Texas 79765

Generated 9/17/2024 7:59:27 AM

JOB DESCRIPTION

Caza East 12 Lea County,NM

JOB NUMBER

890-7091-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Brianna Tel

Generated 9/17/2024 7:59:27 AM

Authorized for release by Brianna Teel, Project Manager Brianna.Teel@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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Client: Earth Systems Response and Restoration Project/Site: Caza East 12

Laboratory Job ID: 890-7091-1 SDG: Lea County,NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receint Checklists	20

Definitions/Glossary

Client: Earth Systems Response and Restoration

Job ID: 890-7091-1 SDG: Lea County, NM Project/Site: Caza East 12

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

Relative Percent Difference, a measure of the relative difference between two points **RPD**

TFF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Job ID: 890-7091-1

Case Narrative

Client: Earth Systems Response and Restoration

Project: Caza East 12

Eurofins Carlsbad Job ID: 890-7091-1

Job Narrative 890-7091-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 9/13/2024 3:17 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (890-7091-1), CS-2 (890-7091-2) and CS-3 (890-7091-3).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Earth Systems Response and Restoration

Project/Site: Caza East 12

SDG: Lea County, NM

Job ID: 890-7091-1

Client Sample ID: CS-1

Lab Sample ID: 890-7091-1

Date Collected: 09/13/24 13:00 Date Received: 09/13/24 15:17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/16/24 08:50	09/16/24 12:15	
Toluene	<0.00198	U	0.00198		mg/Kg		09/16/24 08:50	09/16/24 12:15	•
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/16/24 08:50	09/16/24 12:15	•
m-Xylene & p-Xylene	< 0.00396	U	0.00396		mg/Kg		09/16/24 08:50	09/16/24 12:15	· · · · · · · · ·
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/16/24 08:50	09/16/24 12:15	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/16/24 08:50	09/16/24 12:15	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	105		70 - 130				09/16/24 08:50	09/16/24 12:15	
1,4-Difluorobenzene (Surr)	100		70 - 130				09/16/24 08:50	09/16/24 12:15	•
Method: TAL SOP Total BTE	(- Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/16/24 12:15	
Method: SW846 8015 NM - Di	esel Range (Organics (DRO) (GC)						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			11	IVIDE	Oilit		opa.oa	Allalyzeu	DIIFac
Total TPH	<50.0	U	50.0	WIDE	mg/Kg	_ =		09/16/24 16:55	DII Fac
- -			50.0			_ =			
Method: SW846 8015B NM - I	Diesel Range		50.0				Prepared		
Method: SW846 8015B NM - I Analyte Gasoline Range Organics	Diesel Range	Organics Qualifier	50.0 (DRO) (GC)		mg/Kg			09/16/24 16:55	
Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Diesel Range Result	Organics Qualifier	50.0 (DRO) (GC)		mg/Kg		Prepared 09/13/24 15:55	09/16/24 16:55 Analyzed	Dil Fac
Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Diesel Range Result <50.0	e Organics Qualifier U	50.0 (DRO) (GC) RL 50.0		mg/Kg Unit mg/Kg		Prepared 09/13/24 15:55 09/13/24 15:55	09/16/24 16:55 Analyzed 09/16/24 16:55	Dil Fac
Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Diesel Range Result <50.0	Organics Qualifier U	50.0 (DRO) (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/13/24 15:55 09/13/24 15:55	09/16/24 16:55 Analyzed 09/16/24 16:55 09/16/24 16:55	Dil Fac
Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate	Diesel Range Result <50.0 <50.0	Organics Qualifier U	50.0 (DRO) (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/13/24 15:55 09/13/24 15:55	09/16/24 16:55 Analyzed 09/16/24 16:55 09/16/24 16:55 09/16/24 16:55	Dil Fac
Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Name	Organics Qualifier U	50.0 (DRO) (GC) RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/13/24 15:55 09/13/24 15:55 09/13/24 15:55 Prepared 09/13/24 15:55	09/16/24 16:55 Analyzed 09/16/24 16:55 09/16/24 16:55 09/16/24 16:55 Analyzed	Dil Fac
Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Name	Qualifier U U Qualifier	50.0 (DRO) (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/13/24 15:55 09/13/24 15:55 09/13/24 15:55 Prepared 09/13/24 15:55	09/16/24 16:55 Analyzed 09/16/24 16:55 09/16/24 16:55 Analyzed 09/16/24 16:55	Dil Fac
Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Analyte	Name	Qualifier U U Qualifier	50.0 (DRO) (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 09/13/24 15:55 09/13/24 15:55 09/13/24 15:55 Prepared 09/13/24 15:55	09/16/24 16:55 Analyzed 09/16/24 16:55 09/16/24 16:55 Analyzed 09/16/24 16:55	Dil Fac

Client Sample ID: CS-2 Lab Sample ID: 890-7091-2 Date Collected: 09/13/24 13:10 Matrix: Solid

Date Received: 09/13/24 15:17

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Benzene <0.00202 U 0.00202 mg/Kg 09/16/24 08:50 09/16/24 12:35 Toluene <0.00202 U 0.00202 mg/Kg 09/16/24 08:50 09/16/24 12:35 Ethylbenzene <0.00202 U 0.00202 mg/Kg 09/16/24 08:50 09/16/24 12:35 m-Xylene & p-Xylene <0.00403 U 0.00403 mg/Kg 09/16/24 08:50 09/16/24 12:35 o-Xylene <0.00202 U 0.00202 mg/Kg 09/16/24 08:50 09/16/24 12:35 Xylenes, Total <0.00403 U 0.00403 mg/Kg 09/16/24 08:50 09/16/24 12:35 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 103 70 - 130 09/16/24 08:50 09/16/24 12:35 1,4-Difluorobenzene (Surr) 102 70 - 130 09/16/24 08:50 09/16/24 12:35

Client: Earth Systems Response and Restoration

Job ID: 890-7091-1 SDG: Lea County,NM Project/Site: Caza East 12

Client Sample ID: CS-2

Lab Sample ID: 890-7091-2 Date Collected: 09/13/24 13:10 **Matrix: Solid**

Date Received: 09/13/24 15:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/16/24 12:35	1
Method: SW846 8015	•	•	, , ,	••••		_			
Method: SW846 8015 Analyte	•	Organics (E Qualifier	ORO) (GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		09/13/24 15:55	09/16/24 17:10	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		09/13/24 15:55	09/16/24 17:10	1
C10-C28)									
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/13/24 15:55	09/16/24 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				09/13/24 15:55	09/16/24 17:10	1
o-Terphenyl	90		70 - 130				09/13/24 15:55	09/16/24 17:10	1

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.06		4.98		mg/Kg			09/16/24 13:08	1

Lab Sample ID: 890-7091-3 **Client Sample ID: CS-3** Date Collected: 09/13/24 13:20 **Matrix: Solid**

Released to Imaging: 10/28/2024 3:29:15 PM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/24 08:50	09/16/24 12:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/24 08:50	09/16/24 12:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/24 08:50	09/16/24 12:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/16/24 08:50	09/16/24 12:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/24 08:50	09/16/24 12:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/16/24 08:50	09/16/24 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				09/16/24 08:50	09/16/24 12:56	1
=									
Method: TAL SOP Total BT				1401	114	_	09/16/24 08:50		
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BT Analyte Total BTEX	TEX - Total BTE Result <0.00401	Qualifier U	RL 0.00401	MDL	Unit mg/Kg	<u>D</u>	09/16/24 08:50 Prepared	Analyzed 09/16/24 12:56	·
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM -	TEX - Total BTE Result <0.00401 Diesel Range 0	Qualifier U Organics (RL 0.00401 DRO) (GC)		mg/Kg		Prepared	Analyzed 09/16/24 12:56	Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM -	TEX - Total BTE Result <0.00401 Diesel Range 0	Qualifier U	RL 0.00401			<u>D</u>		Analyzed	,
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM - Analyte	TEX - Total BTE Result <0.00401 Diesel Range 0	Qualifier U Organics (Qualifier	RL 0.00401 DRO) (GC)		mg/Kg		Prepared	Analyzed 09/16/24 12:56	Dil Fac
Method: TAL SOP Total BT Analyte	EX - Total BTE Result <0.00401 Diesel Range Result <49.8	Qualifier U Organics (Qualifier U	DRO) (GC) RL 49.8		mg/Kg Unit		Prepared	Analyzed 09/16/24 12:56 Analyzed	Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM - Analyte Total TPH Method: SW846 8015B NM	EX - Total BTE Result <0.00401 Diesel Range Result <49.8 - Diesel Range	Qualifier U Organics (Qualifier U	DRO) (GC) RL 49.8	MDL	mg/Kg Unit		Prepared	Analyzed 09/16/24 12:56 Analyzed	Dil Fac
Method: TAL SOP Total BT Analyte Total BTEX Method: SW846 8015 NM - Analyte Total TPH	EX - Total BTE Result <0.00401 Diesel Range Result <49.8 - Diesel Range	Qualifier U Organics (Qualifier U Organics (Qualifier U	DRO) (GC) RL 49.8	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 09/16/24 12:56 Analyzed 09/16/24 17:25	Dil Fac

Client Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-7091-1 Project/Site: Caza East 12 SDG: Lea County,NM

Lab Sample ID: 890-7091-3 **Client Sample ID: CS-3**

Date Collected: 09/13/24 13:20 **Matrix: Solid** Date Received: 09/13/24 15:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/13/24 15:55	09/16/24 17:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				09/13/24 15:55	09/16/24 17:25	1
o-Terphenyl	88		70 - 130				09/13/24 15:55	09/16/24 17:25	1

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chloride 7.40 5.05 mg/Kg 09/16/24 13:13

Surrogate Summary

Client: Earth Systems Response and Restoration

Job ID: 890-7091-1 Project/Site: Caza East 12 SDG: Lea County,NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Per	cent Surrogate Red
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-7091-1	CS-1	105	100	
890-7091-1 MS	CS-1	101	100	
890-7091-1 MSD	CS-1	106	97	
890-7091-2	CS-2	103	102	
890-7091-3	CS-3	105	100	
LCS 880-90805/1-A	Lab Control Sample	103	98	
LCSD 880-90805/2-A	Lab Control Sample Dup	97	99	
MB 880-90805/5-A	Method Blank	100	95	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surre	ogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-7091-1	CS-1	89	93	
890-7091-2	CS-2	89	90	
890-7091-3	CS-3	86	88	
LCS 880-90745/2-A	Lab Control Sample	127	121	
LCSD 880-90745/3-A	Lab Control Sample Dup	122	113	
MB 880-90745/1-A	Method Blank	92	104	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration Job ID: 890-7091-1 Project/Site: Caza East 12

SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-90805/5-A

Lab Sample ID: LCS 880-90805/1-A

Lab Sample ID: LCSD 880-90805/2-A

Matrix: Solid

Matrix: Solid

Matrix: Solid

Analysis Batch: 90791

Analysis Batch: 90791

Analysis Batch: 90791

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 90805

	MB	МВ						•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/16/24 08:50	09/16/24 11:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/16/24 08:50	09/16/24 11:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/16/24 08:50	09/16/24 11:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/16/24 08:50	09/16/24 11:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/16/24 08:50	09/16/24 11:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/16/24 08:50	09/16/24 11:53	1
	MD	MD							

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/16/24 08:50	09/16/24 11:53	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/16/24 08:50	09/16/24 11:53	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 90805

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08754		mg/Kg		88	70 - 130	
Toluene	0.100	0.08258		mg/Kg		83	70 - 130	
Ethylbenzene	0.100	0.08243		mg/Kg		82	70 - 130	
m-Xylene & p-Xylene	0.200	0.1735		mg/Kg		87	70 - 130	
o-Xylene	0.100	0.08710		mg/Kg		87	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 90805

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09405		mg/Kg		94	70 - 130	7	35
Toluene	0.100	0.08799		mg/Kg		88	70 - 130	6	35
Ethylbenzene	0.100	0.08808		mg/Kg		88	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1863		mg/Kg		93	70 - 130	7	35
o-Xylene	0.100	0.09241		mg/Kg		92	70 - 130	6	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-7091-1 MS

Matrix: Solid

Analysis Batch: 90791

Client Sample ID: CS-1 Prep Type: Total/NA Prep Batch: 90805

Analysis Baton, soron									i icp i	Julion. V	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00198	U	0.101	0.08977		mg/Kg		89	70 - 130		
Toluene	<0.00198	U	0.101	0.08423		mg/Kg		84	70 - 130		

QC Sample Results

Client: Earth Systems Response and Restoration

Job ID: 890-7091-1 Project/Site: Caza East 12 SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7091-1 MS

Client Sample ID: CS-1 Matrix: Solid Prep Type: Total/NA **Analysis Batch: 90791** Prep Batch: 90805

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00198	U	0.101	0.08270		mg/Kg		82	70 - 130		
m-Xylene & p-Xylene	< 0.00396	U	0.202	0.1747		mg/Kg		87	70 - 130		
o-Xylene	<0.00198	U	0.101	0.08736		mg/Kg		87	70 - 130		
	Ethylbenzene m-Xylene & p-Xylene	Analyte Result Ethylbenzene <0.00198 m-Xylene & p-Xylene <0.00396	Ethylbenzene <0.00198 U m-Xylene & p-Xylene <0.00396 U	Analyte Result Qualifier Added Ethylbenzene <0.00198 U 0.101 m-Xylene & p-Xylene <0.00396 U 0.202	Analyte Result Ethylbenzene Qualifier Value Added Added Added Value Result Value m-Xylene & p-Xylene <0.00396 U 0.202 0.1747	Analyte Result Qualifier Added Result Qualifier Ethylbenzene <0.00198 U 0.101 0.08270 m-Xylene & p-Xylene <0.00396 U 0.202 0.1747	Analyte Result Ethylbenzene Qualifier Added Output Result Qualifier Qualifier Output Added Output Result Qualifier Output Unit mg/Kg m-Xylene & p-Xylene <0.00396 U 0.202 0.1747 mg/Kg	Analyte Result Ethylbenzene Qualifier Added Output Result Qualifier Output Qualifier Output Unit May Descript Output Descript Output m-Xylene & p-Xylene <0.00396 U 0.202 0.1747 mg/Kg mg/Kg	Analyte Result of Ethylbenzene Qualifier of Co.00198 Added of Co.00198 Result of Co.00198 Qualifier of Co.00198 Qualifier of Co.00198 Qualifier of Co.00198 Unit of Co.00198 D %Rec of Mark of Co.00198 m-Xylene & p-Xylene <0.00396 U 0.202 0.1747 mg/Kg 87	Analyte Result of Ethylbenzene Qualifier of Co.00198 Added of Co.00198 Result of Co.00198 Qualifier of Co.00198 Qualifier of Co.00198 Qualifier of Co.00198 Unit of Co.00198 May be a control of Co.00198	Analyte Result Qualifier Added Outline Added Outline

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 101 1,4-Difluorobenzene (Surr) 100 70 - 130

Lab Sample ID: 890-7091-1 MSD

Client Sample ID: CS-1 **Matrix: Solid** Prep Type: Total/NA Prep Batch: 90805 **Analysis Batch: 90791** Sample Sample Spike MSD MSD %Rec **RPD** iit 35

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.0998	0.08515		mg/Kg		85	70 - 130	5	35
Toluene	<0.00198	U	0.0998	0.07965		mg/Kg		80	70 - 130	6	35
Ethylbenzene	<0.00198	U	0.0998	0.07860		mg/Kg		79	70 - 130	5	35
m-Xylene & p-Xylene	< 0.00396	U	0.200	0.1667		mg/Kg		84	70 - 130	5	35
o-Xylene	<0.00198	U	0.0998	0.08348		mg/Kg		84	70 - 130	5	35

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 106 1,4-Difluorobenzene (Surr) 97 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-90745/1-A **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 90827** Prep Batch: 90745

	MB	MB						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/13/24 15:55	09/16/24 09:52	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	П	50.0	mg/Kg		09/13/24 15:55	09/16/24 09:52	1
C10-C28)	100.0	Ü	00.0	mg/ng		00/10/24 10:00	00/10/24 00:02	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/13/24 15:55	09/16/24 09:52	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 70 - 130 09/13/24 15:55 09/16/24 09:52 92 70 - 130 09/13/24 15:55 09/16/24 09:52 o-Terphenyl 104

Lab Sample ID: LCS 880-90745/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 90827

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits 1000 958.1 96 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 978.5 mg/Kg 98 70 - 130 C10-C28)

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Prep Batch: 90745

Client: Earth Systems Response and Restoration

Job ID: 890-7091-1 Project/Site: Caza East 12 SDG: Lea County, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-90745/2-A

Matrix: Solid

Analysis Batch: 90827

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 90745

LCS LCS

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 127 70 - 130 o-Terphenyl 121 70 - 130

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 880-90745/3-A

Matrix: Solid

Analysis Batch: 90827

Prep Type: Total/NA

Prep Batch: 90745

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 910.6 mg/Kg 91 70 - 130 5 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 923.8 mg/Kg 92 70 - 130 6 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	113		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-90789/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 90795

MB MB

	Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
l	Chloride	<5.00	U	5.00	m	ng/Kg			09/16/24 11:51	1

Lab Sample ID: LCS 880-90789/2-A

Matrix: Solid

Analysis Batch: 90795

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	258.8		mg/Kg		104	90 - 110	

Lab Sample ID: LCSD 880-90789/3-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid**

Analysis Batch: 90795

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	260.0		ma/Ka	_	104	90 - 110		20	

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Client Sample ID: Lab Control Sample Prep Type: Soluble

Prep Type: Soluble

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-7091-1 Project/Site: Caza East 12 SDG: Lea County,NM

GC VOA

Analysis Batch: 90791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7091-1	CS-1	Total/NA	Solid	8021B	90805
890-7091-2	CS-2	Total/NA	Solid	8021B	90805
890-7091-3	CS-3	Total/NA	Solid	8021B	90805
MB 880-90805/5-A	Method Blank	Total/NA	Solid	8021B	90805
LCS 880-90805/1-A	Lab Control Sample	Total/NA	Solid	8021B	90805
LCSD 880-90805/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	90805
890-7091-1 MS	CS-1	Total/NA	Solid	8021B	90805
890-7091-1 MSD	CS-1	Total/NA	Solid	8021B	90805

Prep Batch: 90805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7091-1	CS-1	Total/NA	Solid	5035	 ;
890-7091-2	CS-2	Total/NA	Solid	5035	
890-7091-3	CS-3	Total/NA	Solid	5035	
MB 880-90805/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-90805/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-90805/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7091-1 MS	CS-1	Total/NA	Solid	5035	
890-7091-1 MSD	CS-1	Total/NA	Solid	5035	

Analysis Batch: 90928

Lab Sample ID 890-7091-1	Client Sample ID	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
890-7091-2	CS-2	Total/NA	Solid	Total BTEX	
890-7091-3	CS-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 90745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7091-1	CS-1	Total/NA	Solid	8015NM Prep	
890-7091-2	CS-2	Total/NA	Solid	8015NM Prep	
890-7091-3	CS-3	Total/NA	Solid	8015NM Prep	
MB 880-90745/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-90745/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-90745/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 90827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7091-1	CS-1	Total/NA	Solid	8015B NM	90745
890-7091-2	CS-2	Total/NA	Solid	8015B NM	90745
890-7091-3	CS-3	Total/NA	Solid	8015B NM	90745
MB 880-90745/1-A	Method Blank	Total/NA	Solid	8015B NM	90745
LCS 880-90745/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	90745
LCSD 880-90745/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	90745

Analysis Batch: 90927

Lab Sample ID 890-7091-1	Client Sample ID CS-1	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-7091-2	CS-2	Total/NA	Solid	8015 NM	
890-7091-3	CS-3	Total/NA	Solid	8015 NM	

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Page 13 of 21

QC Association Summary

Client: Earth Systems Response and Restoration

Job ID: 890-7091-1 Project/Site: Caza East 12 SDG: Lea County,NM

HPLC/IC

Leach Batch: 90789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7091-1	CS-1	Soluble	Solid	DI Leach	
890-7091-2	CS-2	Soluble	Solid	DI Leach	
890-7091-3	CS-3	Soluble	Solid	DI Leach	
MB 880-90789/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-90789/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-90789/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 90795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7091-1	CS-1	Soluble	Solid	300.0	90789
890-7091-2	CS-2	Soluble	Solid	300.0	90789
890-7091-3	CS-3	Soluble	Solid	300.0	90789
MB 880-90789/1-A	Method Blank	Soluble	Solid	300.0	90789
LCS 880-90789/2-A	Lab Control Sample	Soluble	Solid	300.0	90789
LCSD 880-90789/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	90789

Project/Site: Caza East 12

2000. 200 County,1111

Client Sample ID: CS-1
Date Collected: 09/13/24 13:00

Lab Sample ID: 890-7091-1

Matrix: Solid

Date Received: 09/13/24 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	90805	09/16/24 08:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90791	09/16/24 12:15	SM	EET MID
Total/NA	Analysis	Total BTEX		1			90928	09/16/24 12:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			90927	09/16/24 16:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	90745	09/13/24 15:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90827	09/16/24 16:55	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	90789	09/16/24 07:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90795	09/16/24 13:03	CH	EET MID

Client Sample ID: CS-2 Lab Sample ID: 890-7091-2

Date Collected: 09/13/24 13:10 Matrix: Solid

Date Received: 09/13/24 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	90805	09/16/24 08:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90791	09/16/24 12:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			90928	09/16/24 12:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			90927	09/16/24 17:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	90745	09/13/24 15:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90827	09/16/24 17:10	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	90789	09/16/24 07:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90795	09/16/24 13:08	CH	EET MID

Client Sample ID: CS-3

Date Collected: 09/13/24 13:20

Lab Sample ID: 890-7091-3

Matrix: Solid

Date Received: 09/13/24 15:17

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	90805	09/16/24 08:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	90791	09/16/24 12:56	SM	EET MID
Total/NA	Analysis	Total BTEX		1			90928	09/16/24 12:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			90927	09/16/24 17:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	90745	09/13/24 15:55	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	90827	09/16/24 17:25	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	90789	09/16/24 07:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	90795	09/16/24 13:13	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration

Job ID: 890-7091-1 Project/Site: Caza East 12 SDG: Lea County,NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program		Identification Number	Expiration Date
Texas	NELAI	Р	T104704400	06-30-25
The following analyte	s are included in this rene	rt but the laboratory is a	not certified by the governing author	ity. This list may in
The following analyte	s are included in this repo	it, but the laboratory is i	not certified by the governing author	ity. Triis list may in
ů ,	does not offer certification	•	not certified by the governing author	ity. This list may in
ů ,	•	•	Analyte	ity. Triis list may in
for which the agency	does not offer certification	i.	, , ,	ity. Tilis list illay ill

Method Summary

Client: Earth Systems Response and Restoration

Project/Site: Caza East 12

Joh ID: 800-7001-1

שו מטנ.	090-7091-1
SDG: Lea	County,NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Earth Systems Response and Restoration

Project/Site: Caza East 12

Job ID: 890-7091-1 SDG: Lea County,NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7091-1	CS-1	Solid	09/13/24 13:00	09/13/24 15:17
890-7091-2	CS-2	Solid	09/13/24 13:10	09/13/24 15:17
890-7091-3	CS-3	Solid	09/13/24 13:20	09/13/24 15:17

Relinquished by: (Signature)

Received by: (Signature)

2XX

113

1517

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

eurofins

Xenco **Environment Testing**

Chain of Custody

13 14

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Ш 당 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Work		
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T NO:	:	

				The second secon								
Project Manager: Gilbe	Gilbert Moreno			Bill to: (if different)	ē	E	arth Sy	Earth Systems R&R	R&R		Wo	Work Order Comments
	Earth Systems R&R			Company Name	e;	H					Program: UST/PST PR	Program: UST/PST PRP Brownfields RRC Superfund
	1910 Resource Ct.			Address:							State of Project:	
e ZIP:	Carlsbad, NM, 88220			City, State ZIP:							Reporting: Level II Level III PST/UST	el III ☐ PST/UST ☐ TRRP ☐ Level IV 🗌
	832-541-7719		Email:	Email: gmoreno@earthsys.net	rthsys.net						Deliverables: EDD	ADaPT Other:
Project Name:	Caza East 12	2	1	Turn Around						ANALYSIS F	ALYSIS REQUEST	Preservative Codes
Project Number:	2419		☐ Routine	☑ Rush	CP	Pres. Code						None: NO DI Water: H ₂ O
Project Location:	Lea County, NM	M	Due Date:	24 HR TAT								Cool: Cool MeOH; Me
Sampler's Name:	Gilbert Moreno	no	TAT starts the	TAT starts the day received by the lab,	he lab, if		_				-	HCL: HC HNO3: HN
PO#:			rece	received by 4:30pm		rs			-			H ₂ S0 ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank: (Yes No	Wet ice:	Yes y	0	nete			_			H₃PO₄: HP
Samples Received Intact:	(Yes/ No	Thermometer ID:	er ID:	. com	J	aran			+			NaHSO ₄ : NABIS
Cooler Custody Seals:	Yes No NA	Correction Factor:	actor:	-0.2		Pa	-	-	-	Chain of Custody	stody	Na ₂ S ₂ O ₃ ; NaSO ₃
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	e Reading:	7.6					_	890-7091 Chairle		Zn Acetate+NaOH: Zn
Total Containers:	(Corrected Temperature:	emperature:	1.4						_		NaOH+Ascorbic Acid: SAPC
Sample Identification	tion Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/ Comp # of	Cont	TPH	Chloride	BTEX			Sample Comments
CS-1	S	9/13/2024	13:00	8,	Comp		×	×	×			Incident Number
CS-2	S	9/13/2024	13:10	3'	Comp	1	×	×	×			nAPP2423424961
CS-3	S	9/13/2024	13:20	ري ا		-	×	×	×			
						-	\dashv	\dashv				
>	\											
Alpin						-	-	+	+			
						╬	+	-	+			
			11 1	11 11	$\ \cdot\ $		╟					
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	200.8 / 6020: stal(s) to be analy	zed	8RCRA	13PPM Texas 11	≥	Sb As	Ва	ВеВ	S S	Ca Cr Co Cu Fe Pb	Mg Mn Mo Ni K Se Ag S	SiO ₂ Na Sr Tl Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors.												

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7091-1 SDG Number: Lea County,NM

List Source: Eurofins Carlsbad

Login Number: 7091 List Number: 1

Creator: Lopez, Abraham

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7091-1 SDG Number: Lea County,NM

Login Number: 7091 List Source: Eurofins Midland
List Number: 2 List Creation: 09/13/24 09:57 PM

Creator: Laing, Edmundo

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

4

2

3

4

8

10

13

14

<6mm (1/4").

<u>District I</u> 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**

QUESTIONS

Action 391749

QUESTIONS

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	391749
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2424223470
Incident Name	NAPP2424223470 EAST CAZA @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	East Caza
Date Release Discovered	08/23/2024
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil 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	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Human Error Pipeline (Any) Crude Oil Released: 6 BBL Recovered: 0 BBL Lost: 6 BBL.
Produced Water Released (bbls) Details	Not answered.
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)	Cause: Human error: Pig receiver was opened before being drained. Source: Other: Specify: Pig receiver

District I

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

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

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV** 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 2

Action 391749

QUESTIONS (continued)

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	391749
	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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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	False
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	The area of the release consists of sandy soils. There were no free liquids to contain within a berm or absorb.

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

I hereby agree and sign off to the above statement

Title: EHS Manager
Email: Susan.Worthen@scmid.com
Date: 09/12/2024

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**

QUESTIONS, Page 3

Action 391749

QUESTIONS (continued)

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	391749
	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	NM OSE iWaters Database Search	
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	Greater than 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)	
Any other fresh water well or spring	Between ½ and 1 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)	
A wetland	Between ½ and 1 (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	Low	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	Yes	

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must t	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 deline	eated 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)	10.9	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	397	
GRO+DRO (EPA SW-846 Method 8015M)	397	
BTEX (EPA SW-846 Method 8021B or 8260	OB) 0	
Benzene (EPA SW-846 Method 8021B or 826	0B) 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	09/06/2024	
On what date will (or did) the final sampling or liner inspection occur	09/13/2024	
On what date will (or was) the remediation complete(d)	09/21/2024	
What is the estimated surface area (in square feet) that will be reclain	med 600	
What is the estimated volume (in cubic yards) that will be reclaimed	40	
What is the estimated surface area (in square feet) that will be remed	diated 600	
What is the estimated volume (in cubic yards) that will be remediated	40	
These estimated dates and measurements are recognized to be the best guess or ca	alculation 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 minimall	ly 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.

District I

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

Bistrict III

Bistrict 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

QUESTIONS, Page 4

Action 391749

QUESTIONS (continued)

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	391749
	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.)		
Which OCD approved facility will be used for off-site disposal	approved facility will be used for off-site disposal OWL LANDFILL JAL [fJEG1635837366]	
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	No	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	No	

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: Susan Worthen Title: EHS Manager

Email: Susan.Worthen@scmid.com Date: 10/15/2024

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.

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**

QUESTIONS, Page 5

Action 391749

QUESTIONS (continued)

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	391749
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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

District I

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

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

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

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

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

QUESTIONS, Page 6

Action 391749

QUESTIONS (continued)

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	391749
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	383275
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/13/2024
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	600

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Yes	
Yes	
No	
Yes	
600	
40	
Yes	
600	
40	
No additional remediation activities required. Lab analytical results for all final confirmation sampling meet Site Closure Criteria and reclamation standards. Area will be reclaimed when facility is deconstructed.	

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.

Name: Susan Worthen
Title: EHS Manager
Email: Susan.Worthen@scmid.com
Date: 10/15/2024

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 7

Action 391749

QUESTIONS (continued)

Operator:	OGRID:
SCM Operations, LLC	330368
5775 N Sam Houston Pkwy W	Action Number:
Houston, TX 77086	391749
	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 391749

CONDITIONS

Operator:	OGRID:
SCM Operations, LLC	330368
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	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	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.	10/28/2024