



November 12, 2025

New Mexico Oil Conservation Division

506 W. Texas Ave
Artesia, NM 88210

RE: **Right Meow 31 CTB 7 - Closure Request Report**

Incident Number: nAPP2511547307

GPS: 32.265538°, -103.71086°

Lea County, New Mexico

ESRR Project No. VP-343

To Whom It May Concern:

Earth Systems Response & Restoration (ESRR), on behalf of Devon Energy (Devon), presents the following Closure Request Report (CRR) detailing excavation activities and subsequent soil sampling events associated with an inadvertent release of produced water at the Right Meow 31 CTB 7 (Site). Based on completed remedial actions and laboratory analytical results from recent soil sampling events, Devon is requesting No Further Action (NFA) at the Site.

Site Location

The Site is located in Unit B, Section 31, Township 23 South, Range 32 East, in Lea County, New Mexico (32.265538°, -103.71086°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1**).

Incident Description & Background

On April 25, 2025, a leak developed on a 6-inch flowline, causing the release of approximately 30 barrels (bbls) of produced water onto the production pad surface with no recovered fluids. ESRR conducted initial site assessment activities and mapped the observed release footprint on April 28, 2025, hereafter referred to as the Area of Concern (AOC) (**Figure 2**).

Notice was given to the New Mexico Oil Conservation Division (NMOCD) on April 25, 2025, by Notification of Release (NOR) and subsequently assigned Incident Number nAPP2511547307. A Corrective Action Form C-141 (Form C-141) was later submitted and approved by the NMOCD on April 30, 2025.

On July 23, 2025, Devon requested an extension of the July 24, 2025 deadline, to allow additional time for remediation activities and for ESRR to complete a subsequent corrective action closure report. Devon was granted a 90-day extension by the NMOCD for October 22, 2025.

On October 20, 2025, Devon requested a 15 to 30-day extension of the October 22, 2025 deadline, to allow additional time to finalize this CRR. Devon was granted a 30-day extension by the NMOCD for November 21, 2025.

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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:

- Between 1 and 5 miles of any continuously flowing watercourse or any other significant watercourse;
- Between 1 and 5 miles of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- Greater than 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;
- Greater than 5 miles of any incorporated municipal boundary or a defined municipal fresh water well field covered under a municipal ordinance;
- Between 1 and 5 miles of any wetland;
- Greater than 5 miles of any subsurface mine;
- Greater than 5 miles of an unstable area (i.e. critical/ high/ medium karst potential); and
- 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 well are attached.

Based on the results from the desktop review and depth water estimated to be greater than 55 feet below ground surface (bgs), the following Closure Criteria was applied:

Constituents of Concern (COCs)	Closure Criteria [‡]
Chloride	10,000 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	2,500 mg/kg
Gasoline Range Organics (GRO) + Diesel Range Organics (ORO)	1,000 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

Delineation Activities

During February 2025, ESRR conducted delineation activities to assess the presence or absence of residual soil impacts associated with the AOC. Nineteen delineation boreholes (HA-1 through HA-19) were advanced via hand auger within and surrounding the AOC. Delineation activities were driven by field screening soil for chloride utilizing QuanTab® test strips. A minimum of one soil sample was collected from each delineation borehole, representing the highest observed field screening concentration and/ or the greatest depth. Delineation soil samples were placed directly into lab provided pre-cleaned jars, packed with minimal void space, labeled, and placed on ice. The delineation soil samples were transported under strict chain-of-custody procedures, to Eurofins in Carlsbad, New Mexico, for analysis of the COCs. **Photographic Documentation** of all activities are attached.

Laboratory analytical results for delineation soil samples (HA-2 through HA-13 and HA-15 through HA-19) within and surrounding the AOC were compliant with Site Closure Criteria and/or the reclamation standard defining the horizontal periphery of the AOC.

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Laboratory analytical results for delineation soil samples collected within the AOC (HA-1 and HA-14) indicated Chloride was above the Site Closure Criteria and/or the reclamation standard up to 2 feet bgs. Elevated Chloride concentrations were characterized by concentrations ranging from 10,100 mg/kg to 13,600 mg/kg. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all delineation soil samples are shown in **Figure 2**.

Remediation Activities

During September 2025, Devon oversaw a third-party contractor perform excavation activities of identified soil impacts performed via mechanical equipment based on laboratory analytical results associated with delineation soil sampling activities and visual observation. The excavation was vertically advanced to depths ranging from approximately 0.5 to 4 feet bgs.

Following the removal of soil, ESRR collected five-point composite soil samples at a sampling frequency of 200 square feet from the excavation floor (CS-1 through CS-14) and sidewalls (SW-1 through SW-6). The five-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-quart resealable plastic bag. The confirmation soil samples were handled, transported, and analyzed as previously described.

Laboratory analytical results indicated that the concentration of COCs for all final confirmation soil samples were below the applicable Site Closure Criteria and/or 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 3**.

Approximately 156 cubic yards (CY) of impacted soil was removed from the Site and transported to Lea Land Disposal near Carlsbad, New Mexico under Devon 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 Site's pre-existing grade to prevent ponding of water and erosion.

Closure Request

Due to the active status of the well pad, the top 4 feet of the AOC is not ready to undergo complete reclamation in which the primary purpose is to reestablish vegetation. Based upon depth to groundwater estimated to be greater than 55 feet bgs and no sensitive receptors within the established buffers in NMAC 19.15.29.12, Devon believes residual chloride concentrations within the AOC exceeding the reclamation standard but below the Site Closure Criteria meets the requirements set forth in NMAC 19.15.29.13 regulations and is equally protective of human health, the environment, and groundwater.

Devon will reassess the Site during plugging and abandonment activities and/ or complete facility reconstruction, whichever comes first, and address soil concentrations above the reclamation requirements of 100 mg/kg TPH and 600 mg/kg chloride (**Figure 4**). The final remediation will be confirmed via final confirmation sampling and is subject to change. As such, NFA appears warranted at this time, and Devon respectfully requests Closure of this CRR associated with Incident Number nAPP2511547307.

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

Sincerely,

EARTH SYSTEMS RESPONSE & RESTORATION

A handwritten signature in black ink, appearing to read "Gilbert Moreno".

Gilbert Moreno
Carlsbad Operations Manager/ Project Geologist

A handwritten signature in black ink, appearing to read "Kris Williams".

Kris Williams, CHMM, REM
Principal

cc: Jim Raley, Devon Energy
Bureau of Land Management

Attachments:

- Figure 1 - Site Map
- Figure 1A - Ground Water
- Figure 1B - Karst Potential
- Figure 2 - Delineation Soil Sample Locations
- Figure 3 - Excavation Soil Sample Locations
- Figure 4 - Future Restoration Areas
- Referenced Well Records
- Photographic Documentation
- Table 1 - Soil Sample Analytical Results
- NMOCD Email Documentation & Correspondance
- Executed Chain-of-Custody Forms and Laboratory Analytical Reports

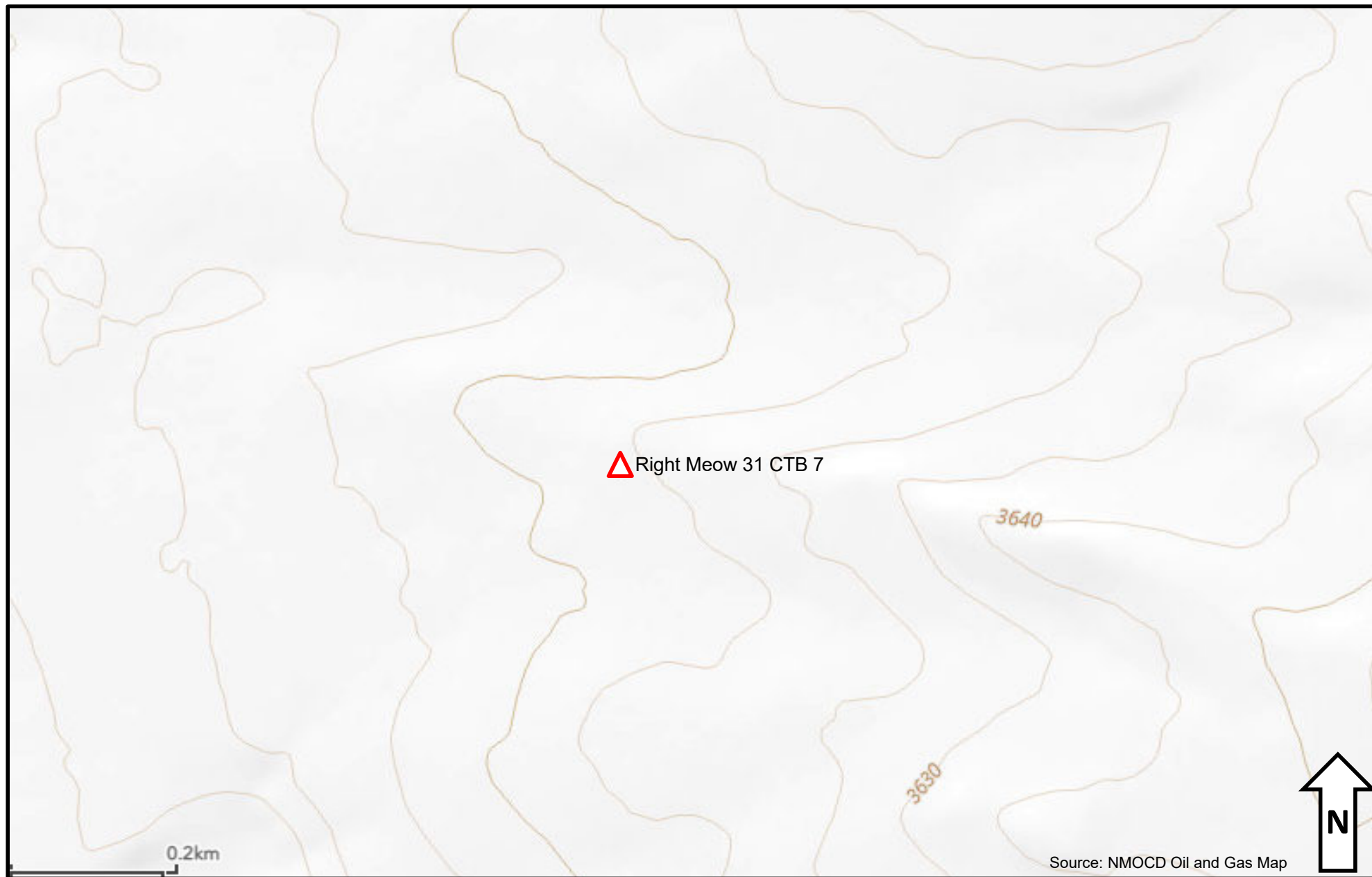


Figure 1 – Site Map

Devon Energy Permian – Right Meow 31 CTB 7
GPS: 32.265538,-103.71086
Lea County, New Mexico



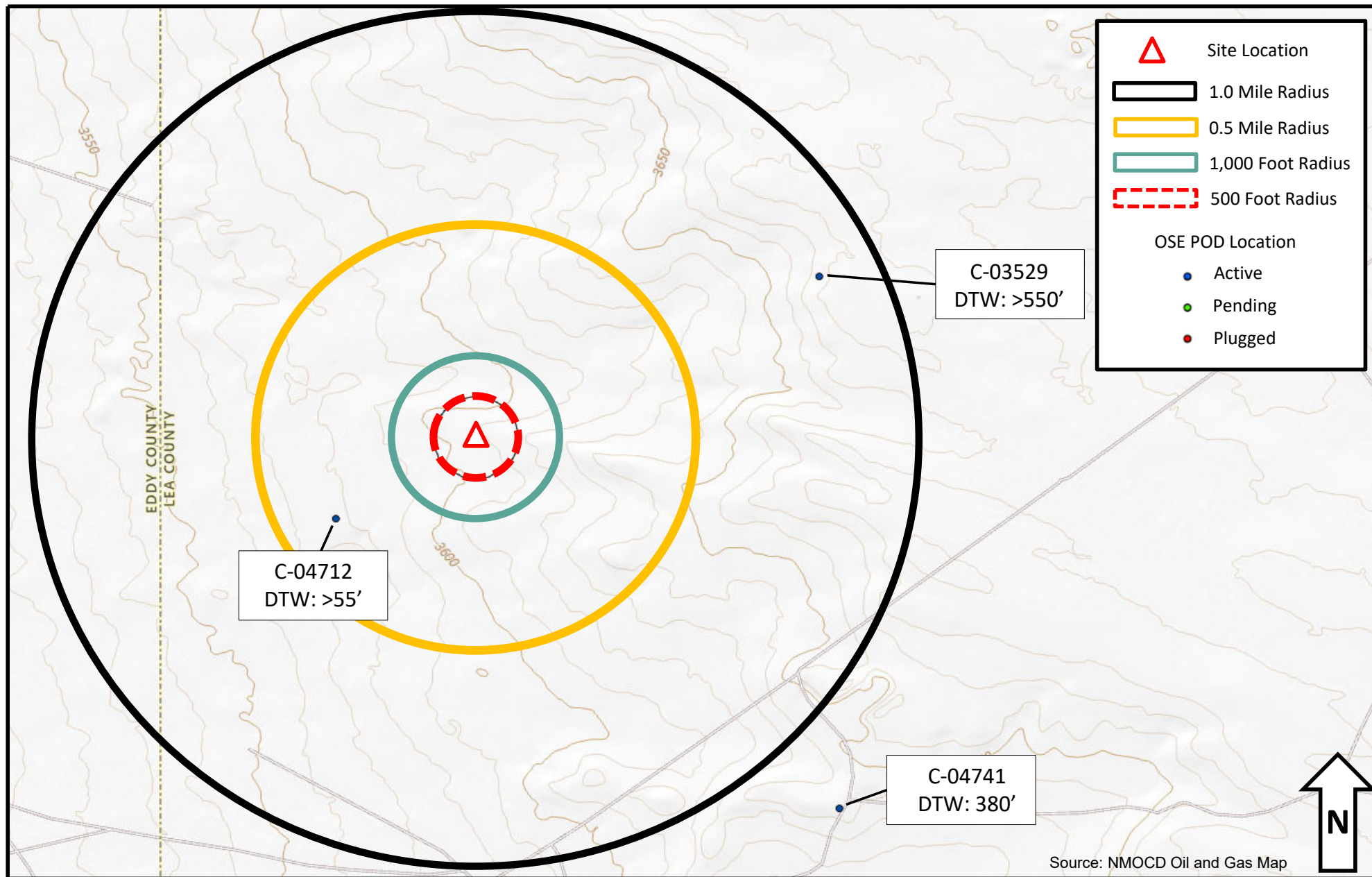
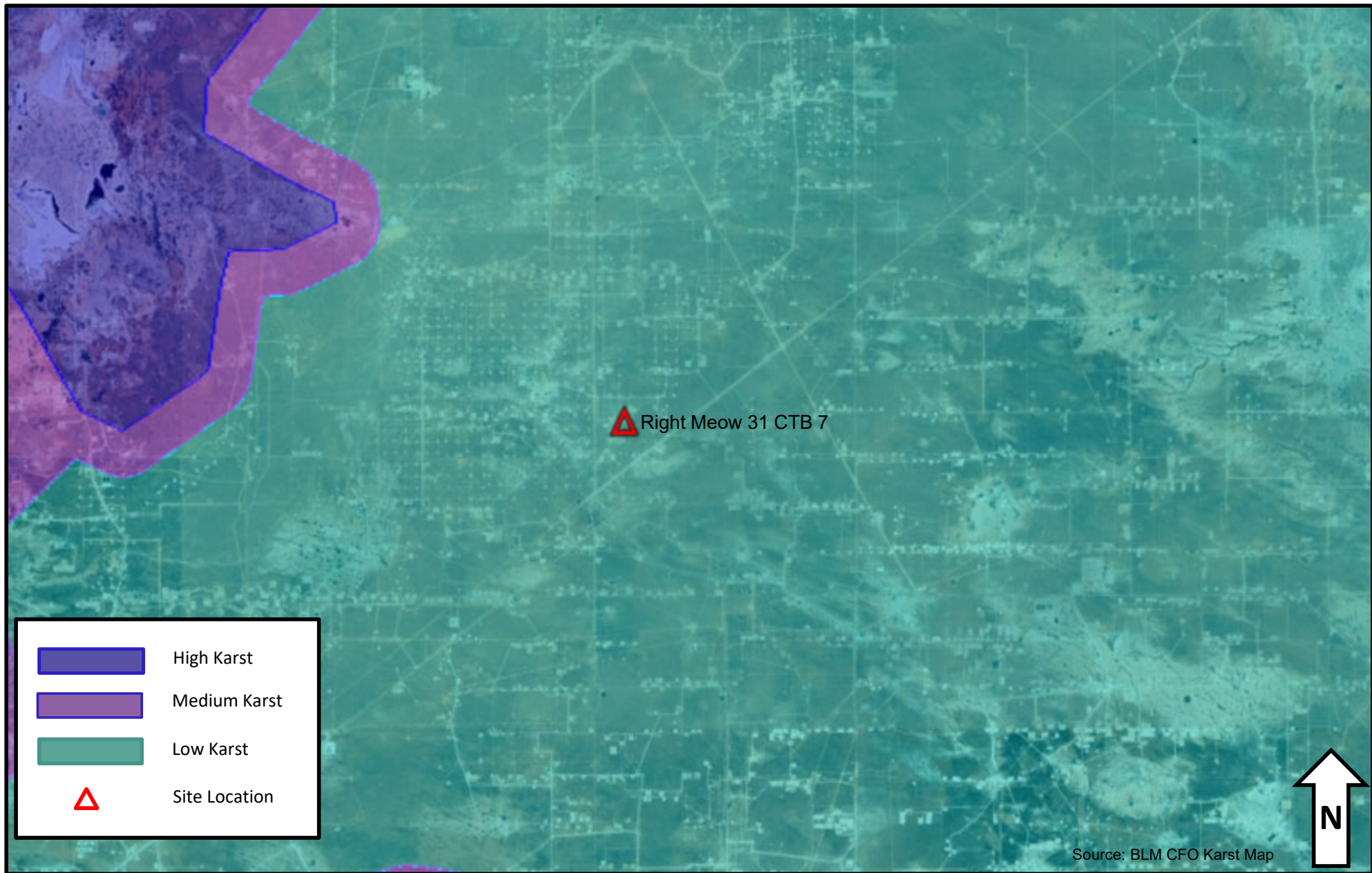
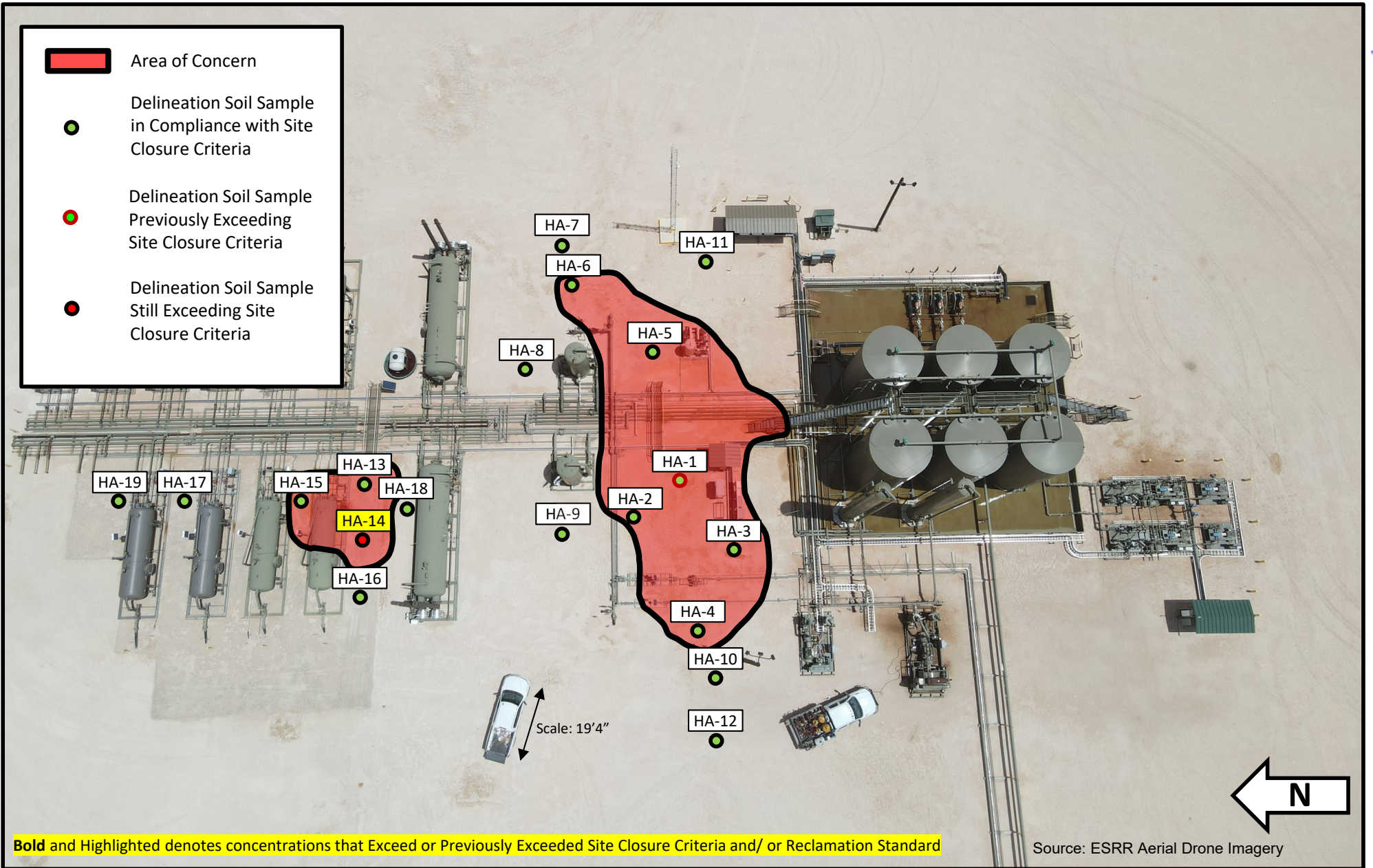


Figure 1A – Ground Water

Devon Energy Permian – Right Meow 31 CTB 7
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Lea County, New Mexico





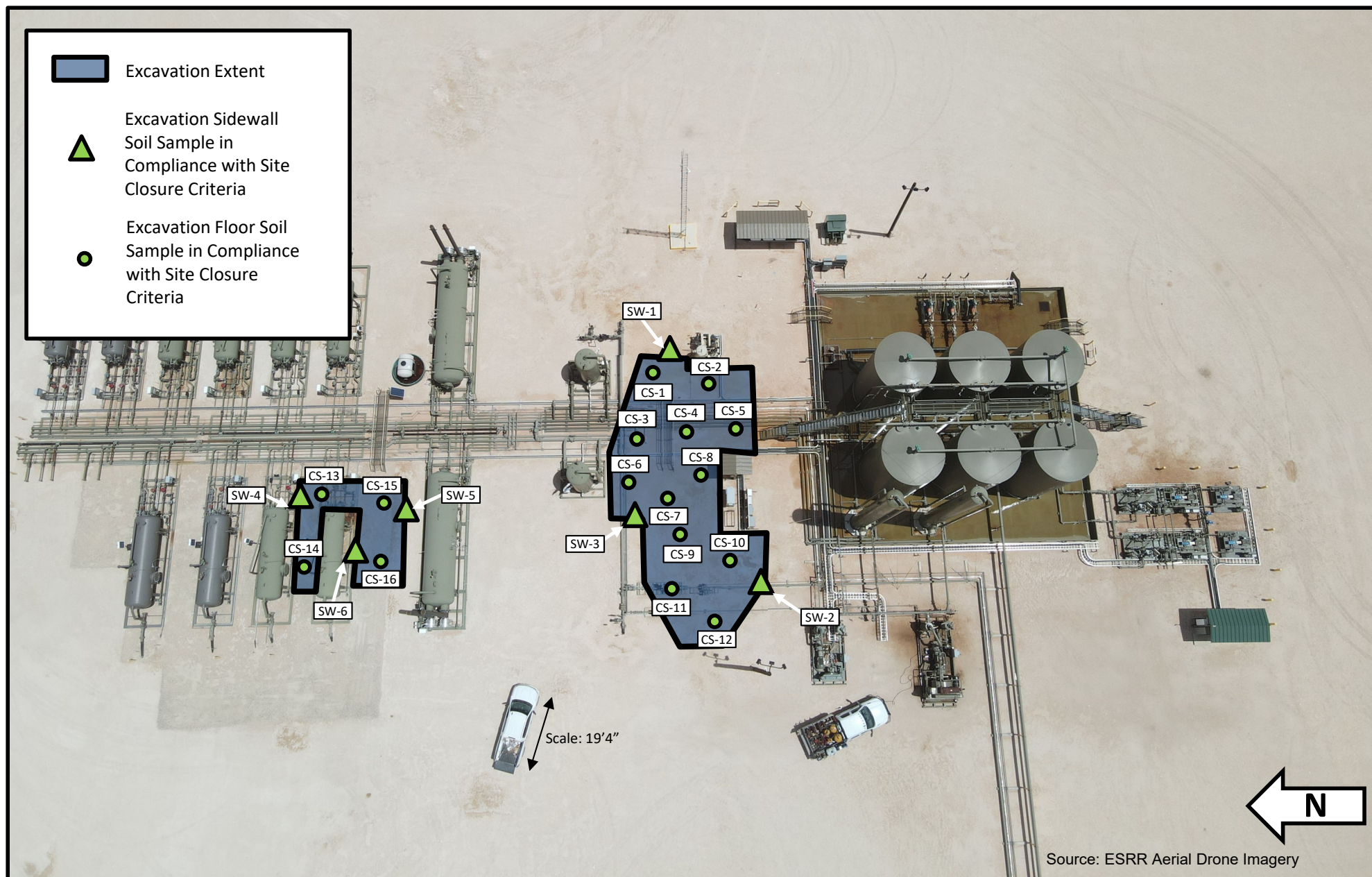
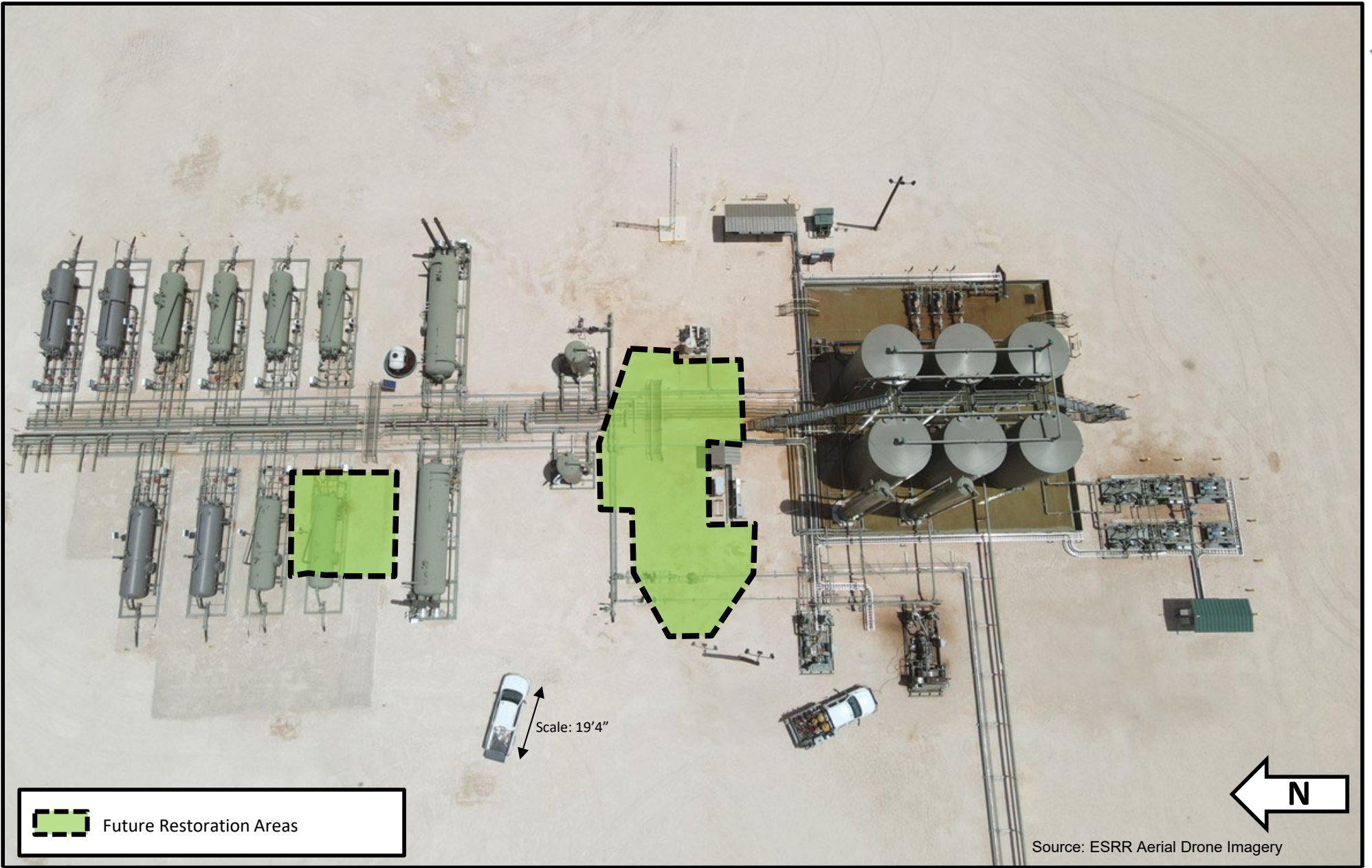


Figure 3 – Excavation Soil Sample Locations

Devon Energy Permian – Right Meow 31 CTB 7
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WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4712 POD 1		WELL TAG ID NO.		OSE FILE NO(S). C-4712		
	WELL OWNER NAME(S) Harvard Petroleum Company				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS PO Box 936				CITY Roswell	STATE NM	ZIP 88202
	WELL LOCATION (FROM GPS)		DEGREES 32	MINUTES 15	SECONDS 46.1	N	
		LONGITUDE -103	42	58.4	W		* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE							

2. DRILLING & CASING INFORMATION	LICENSE NO. 1833		NAME OF LICENSED DRILLER Jason Maley		NAME OF WELL DRILLING COMPANY Vision Resources		
	DRILLING STARTED Mar 9, 2023		DRILLING ENDED 3/9/23		DEPTH OF COMPLETED WELL (FT) 55		BORE HOLE DEPTH (FT) 55
					DEPTH WATER FIRST ENCOUNTERED (FT) Dry		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) Dry	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:					DATE STATIC MEASURED Dry	
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
FROM	TO						
0	45	6	2" pvc sch 40	Thread	2"	sch 40	-
45	55	6	2" pvc sch 40	Tread	2"	sch 40	.02

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-4712-POD 1	POD NO. 1	TRN NO. 743189
LOCATION Mon 23.32.31.141	WELL TAG ID NO. ---	PAGE 1 OF 2

Released to Imaging: 12/15/2025 1:24:51 PM

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: 743189
File Nbr: C 04712
Well File Nbr: C 04712 POD1

Apr. 04, 2023

VERTEX RESOURCES
P.O. BOX 936
ROSWELL, NM 88202

Greetings:

The above numbered permit was issued in your name on 02/21/2023.

The Well Record was received in this office on 04/04/2023, stating that it had been completed on 03/09/2023, 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 02/21/2024.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Maret Thompson".

Maret Thompson
(575) 622-6521

drywell

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PHOTO 1: Northeastern view during initial site assessment activities. 4/28/2025



PHOTO 2: Northeastern view during initial site assessment activities. 4/28/2025

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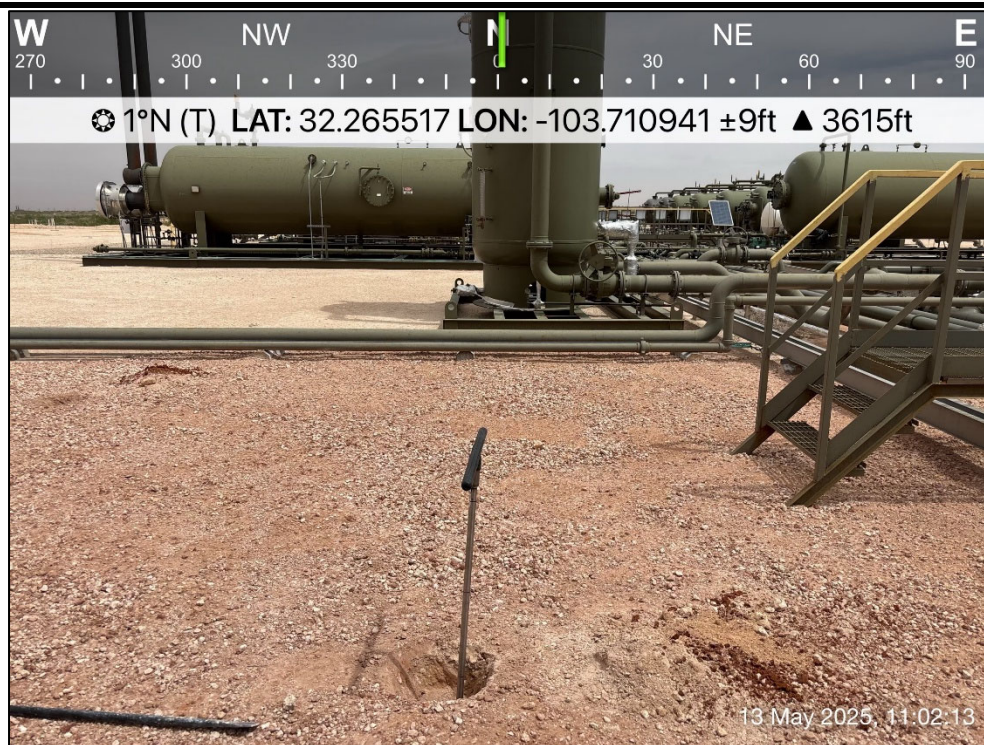


PHOTO 3: Northern view during delineation activities. 5/13/2025

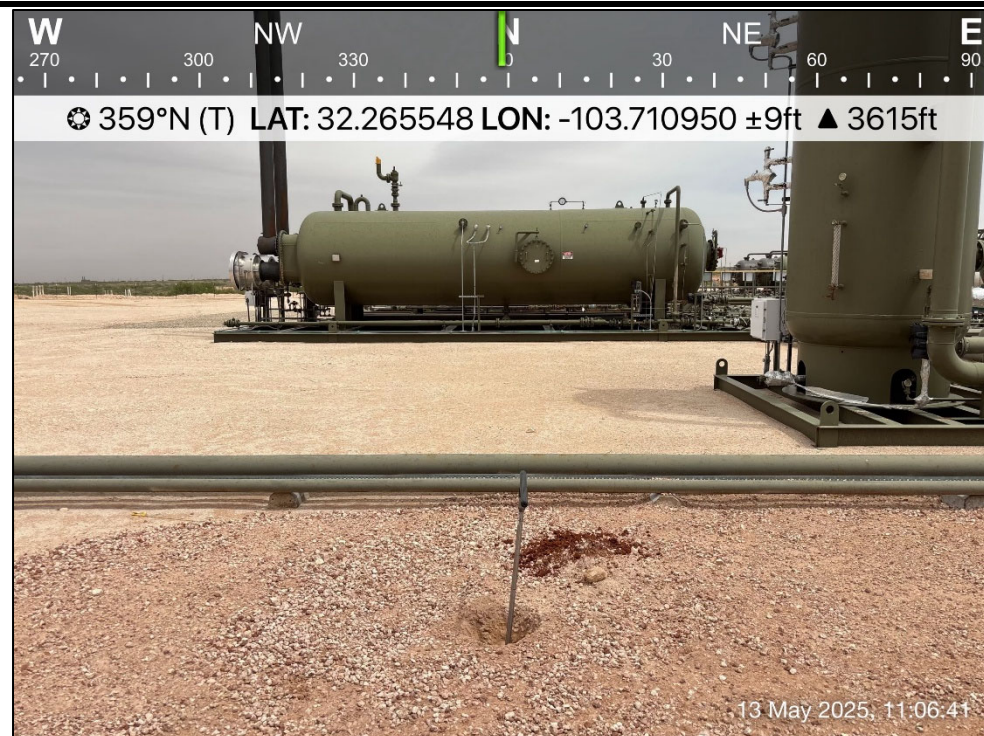


PHOTO 4: Northern view during delineation activities. 5/13/2025

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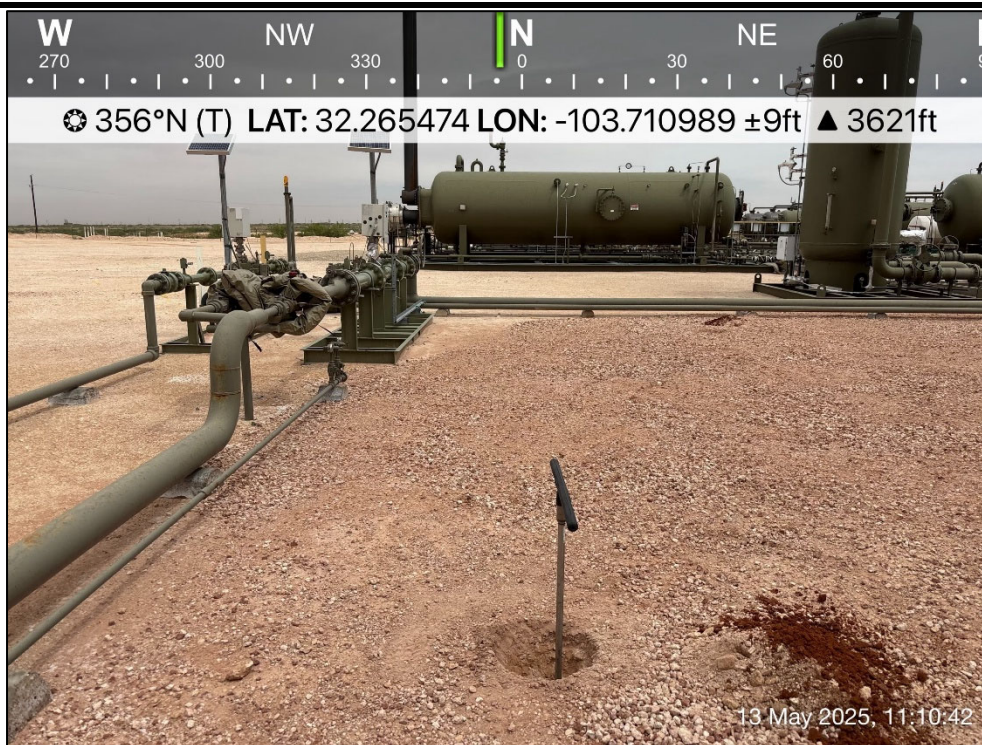


PHOTO 5: Northern view during delineation activities. 5/13/2025



PHOTO 6: Northern view during delineation activities. 5/13/2025

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PHOTO 7: Northern view during delineation activities. 5/13/2025

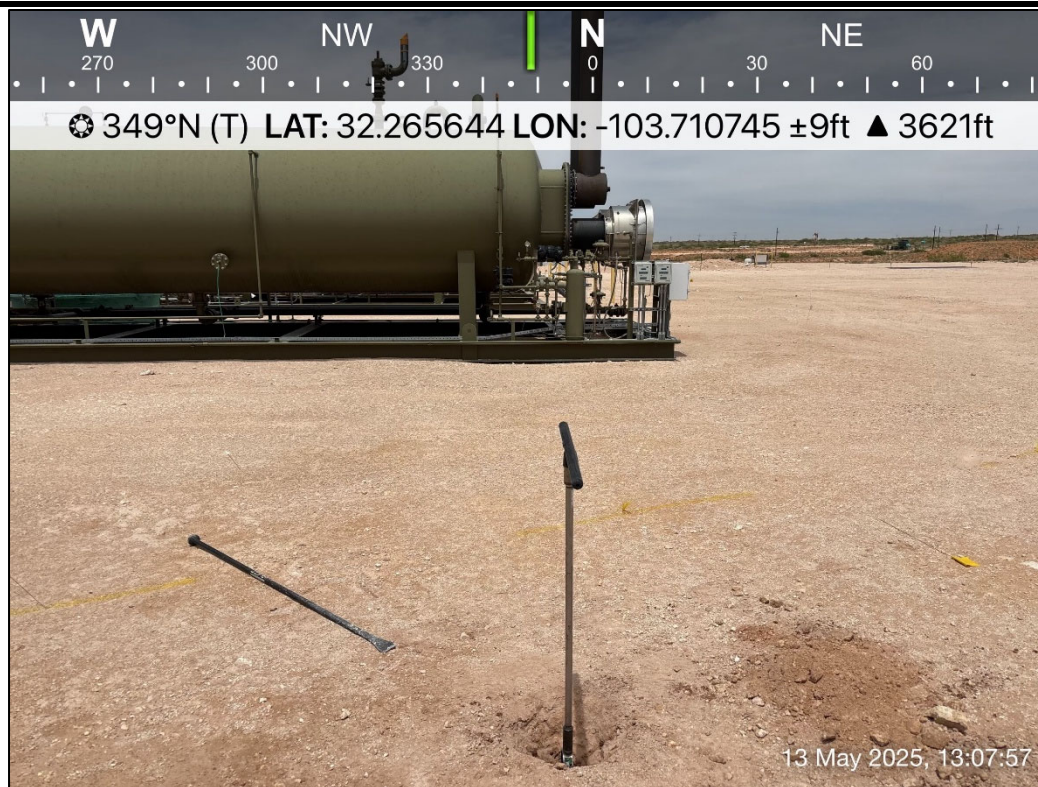


PHOTO 8: Northwestern view during delineation activities. 5/13/2025

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PHOTO 9: Southwestern view during delineation activities. 5/13/2025



PHOTO 10: Northeastern view during delineation activities. 5/13/2025

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PHOTO 11: Northern view during delineation activities. 5/14/2025

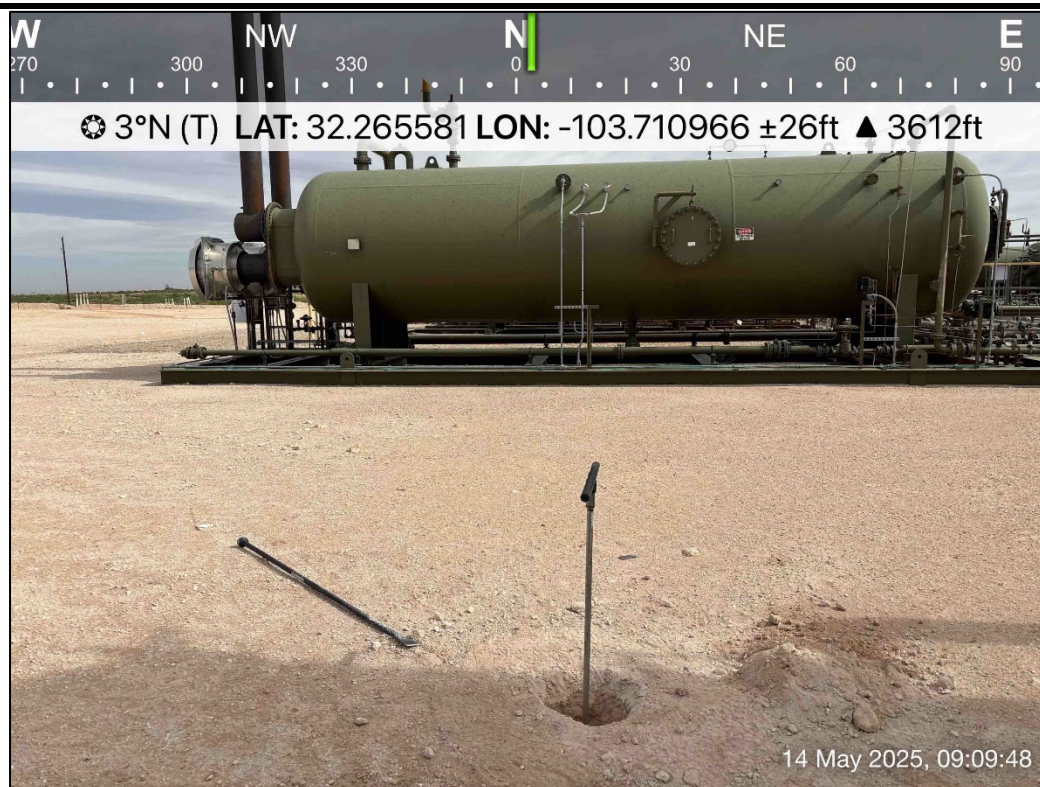


PHOTO 12: Northern view during delineation activities. 5/14/2025

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PHOTO 13: Northern view during additional delineation activities. 5/22/2025

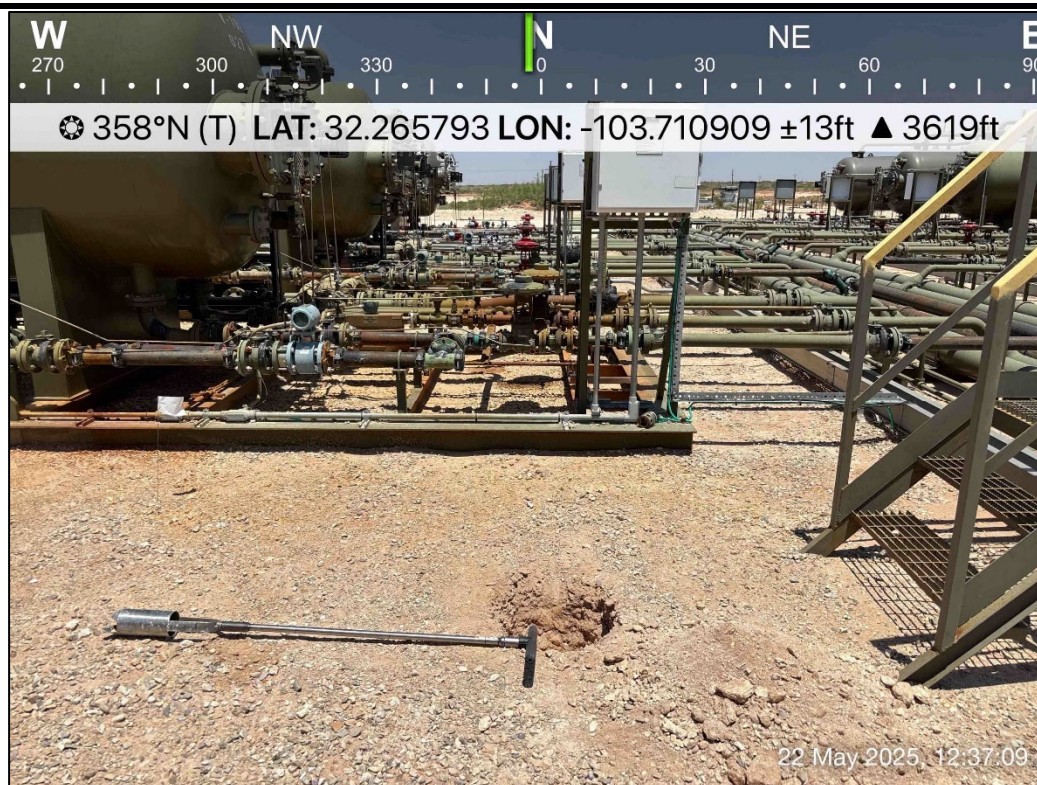


PHOTO 14: Northern view during additional delineation activities. 5/22/2025

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PHOTO 15: Northern view during additional delineation activities. 5/22/2025



PHOTO 16: Northern view during additional delineation activities. 5/22/2025

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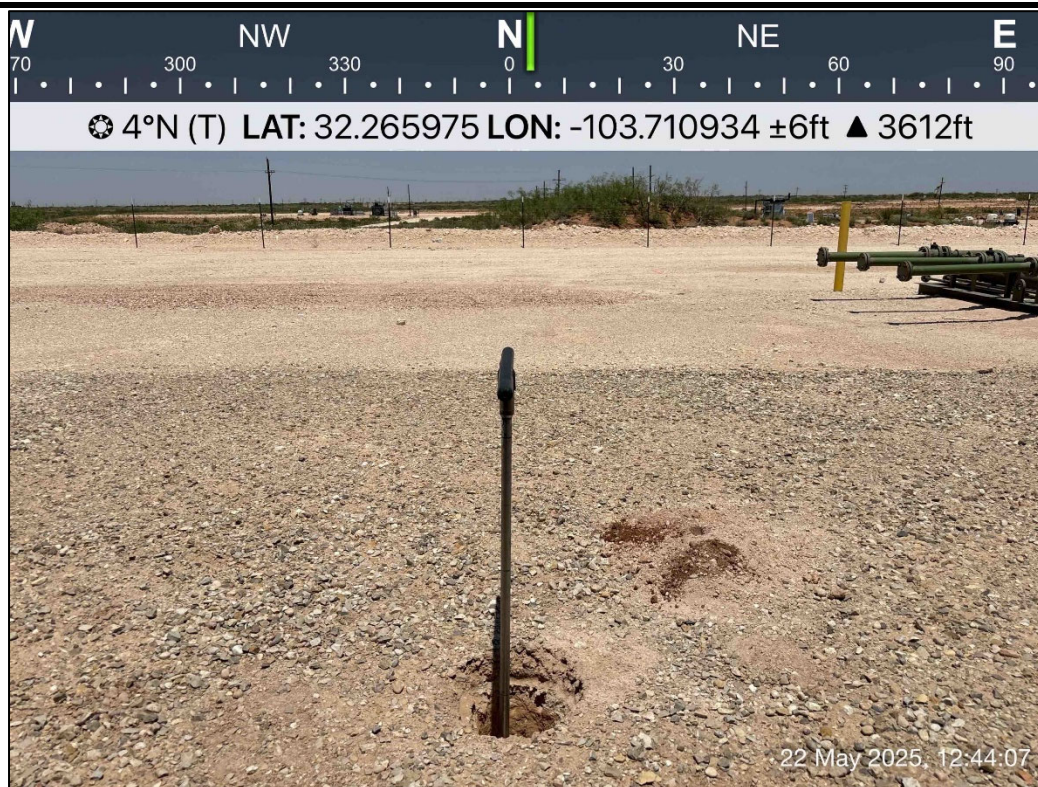


PHOTO 17: Northern view during additional delineation activities. 5/22/2025

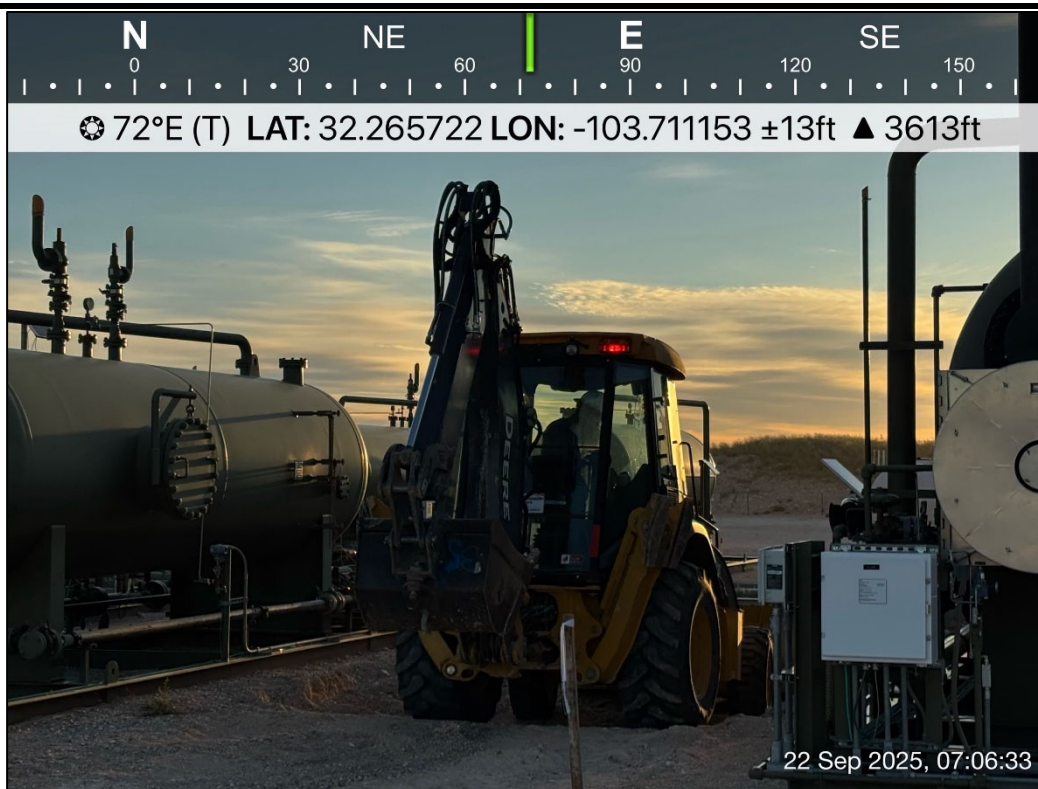


PHOTO 18: Northeastern view during excavation activities. 9/22/2025

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PHOTO 19: Northeastern view during excavation activities. 9/22/2025



PHOTO 20: Northeastern view of excavation extent. 9/22/2025

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PHOTO 21: Southwestern view of excavation extent. 9/22/2025

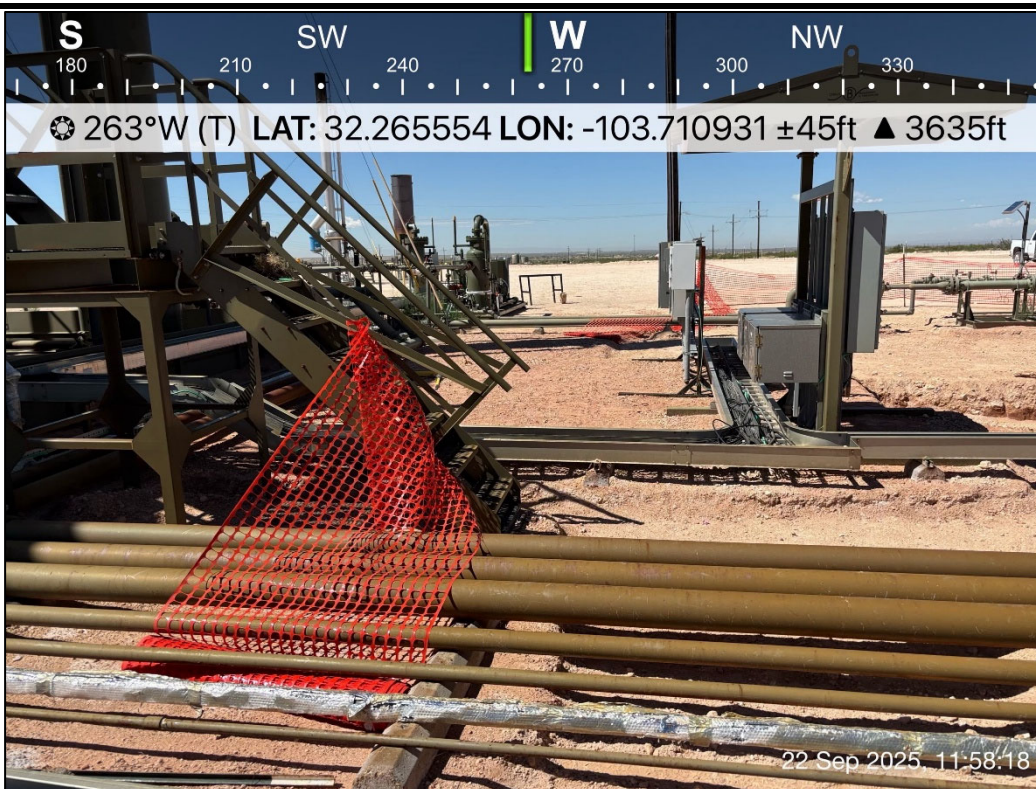


PHOTO 22: Southwestern view of excavation extent. 9/22/2025

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PHOTO 23: Northeastern view following restoration activities. 10/8/2025



PHOTO 24: Eastern view following restoration activities. 10/8/2025

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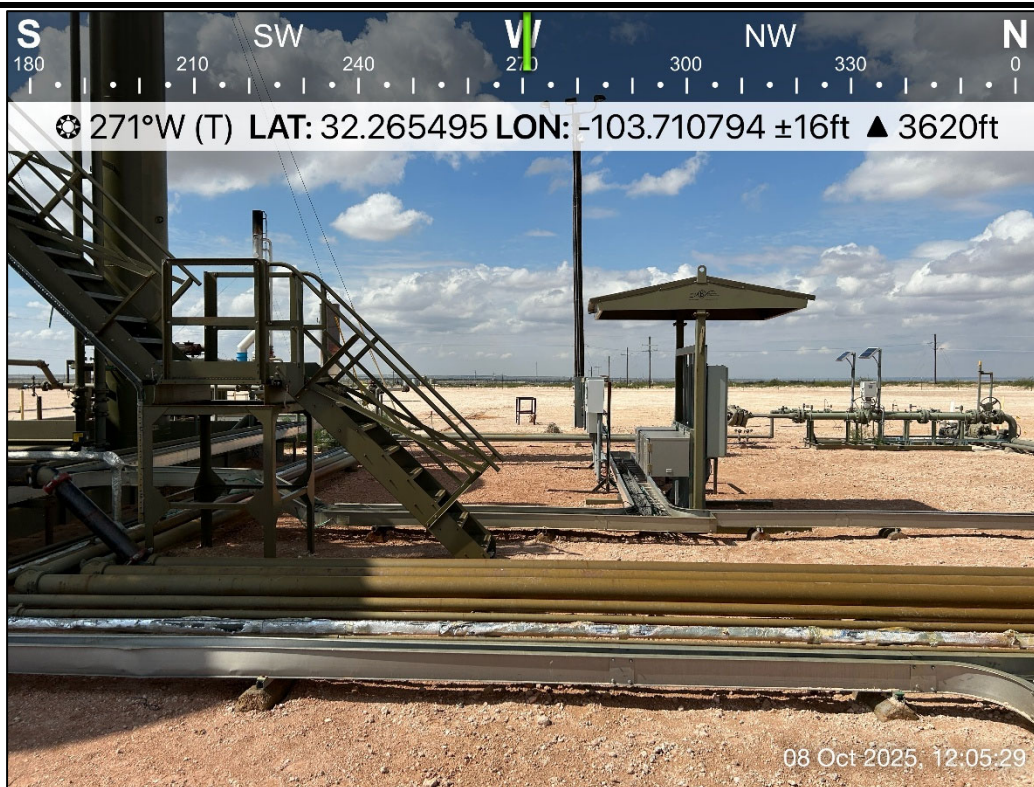


PHOTO 25: Western view following restoration activities. 10/8/2025

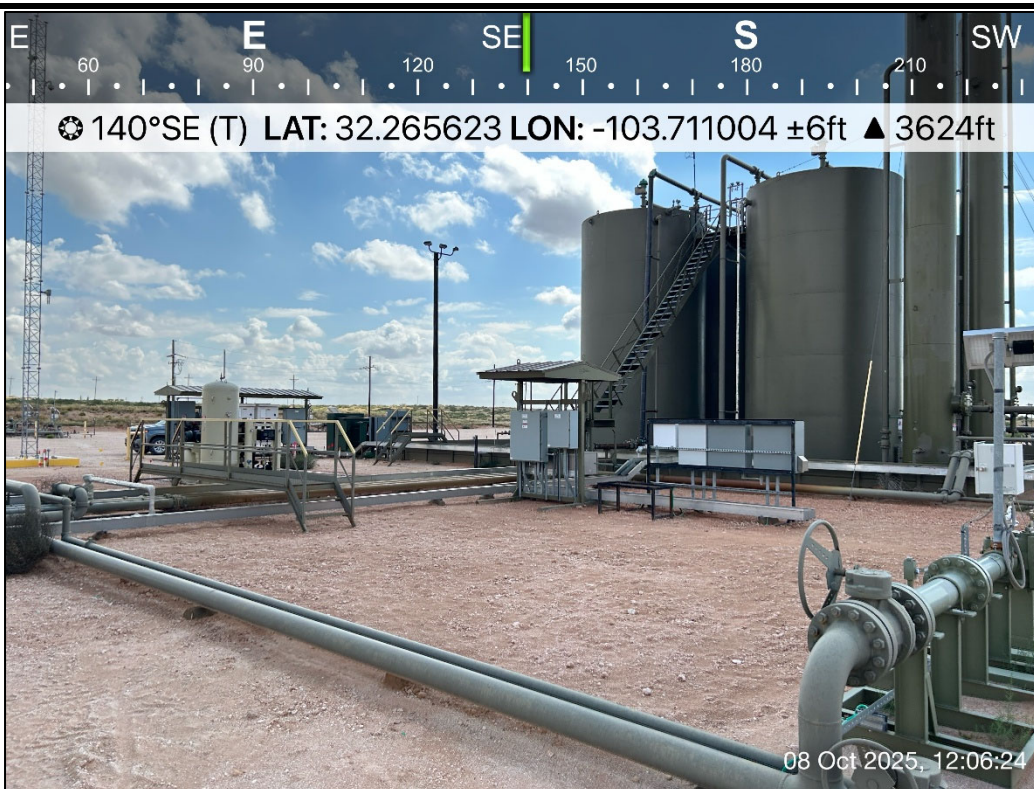


PHOTO 26: Southeastern view following restoration activities. 10/8/2025

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PHOTO 27: Eastern view following restoration activities. 10/8/2025



PHOTO 28: Northwestern view of location sign. 10/8/2025



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Right Meow 31 CTB 7
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)	DRO + GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples - nAPP2511547307										
HA - 1	05/13/25	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	10,500
HA - 1	05/13/25	1	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	10,100
HA - 1	05/13/25	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	5,970
HA - 2	05/13/25	0.5	<0.00202	<0.00404	<50.1	<50.1	<50.1	<50.1	<50.1	9,590
HA - 2	05/13/25	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	8,430
HA - 2	05/13/25	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	411
HA - 3	05/13/25	0.5	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	8,430
HA - 3	05/13/25	1	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	2,450
HA - 3	05/13/25	2	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	<49.7	7,220
HA - 4	05/13/25	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	8,240
HA - 4	05/13/25	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	2,300
HA - 4	05/13/25	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	138
HA - 5	05/13/25	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	9,530
HA - 5	05/13/25	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	5,140
HA - 6	05/13/25	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	2,070
HA - 6	05/13/25	1	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	4,270
HA - 6	05/13/25	2	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	2,210
HA - 7	05/13/25	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	167
HA - 7	05/13/25	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	185
HA - 8	05/14/25	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	180
HA - 8	05/14/25	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	127
HA - 9	05/14/25	0.5	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	171
HA - 9	05/14/25	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	146
HA - 9	05/14/25	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	157
HA - 10	05/14/25	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	4,870
HA - 10	05/14/25	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	830
HA - 10	05/14/25	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	112
HA - 11	05/14/25	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	144
HA - 11	05/14/25	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	144
HA - 11	05/14/25	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	125



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Right Meow 31 CTB 7
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)	DRO + GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Soil Samples - nAPP2511547307										
HA - 12	05/14/25	0.5	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	159
HA - 12	05/14/25	1	<0.00200	<0.00399	<50.5	<50.5	<50.5	<50.5	<50.5	194
HA - 13	05/22/25	0.5	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	8,260
HA - 14	05/22/25	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	2,920
HA - 14	05/22/25	1	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	13,500
HA - 14	05/22/25	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	13,600
HA - 15	05/22/25	0.5	<0.00198	<0.00397	<50.1	<50.1	<50.1	<50.1	<50.1	1,040
HA - 15	05/22/25	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	7,570
HA-16	05/22/25	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	173
HA-16	05/22/25	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	164
HA-16	05/22/25	2	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	157
HA-17	05/22/25	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	5,060
HA-17	05/22/25	1	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	903
HA-18	05/22/25	0.5	<0.00202	<0.00404	<50.1	<50.1	<50.1	<50.1	<50.1	520
HA - 19	05/22/25	0.5	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	526
HA - 19	05/22/25	1	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	214
HA - 19	05/22/25	2	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	108
Confirmation Soil Samples - nAPP2511547307										
CS - 1	09/22/25	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	1,430
CS - 2	09/22/25	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	3,360
CS - 3	09/22/25	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	3,220
CS - 4	09/22/25	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	2,940
CS - 5	09/22/25	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	4,940
CS - 6	09/22/25	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	364
CS - 7	09/22/25	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	914
CS - 8	09/22/25	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	4,790
CS - 9	09/22/25	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	1,490
CS - 10	09/22/25	0.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	2,580
CS - 11	09/22/25	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	2,630
CS - 12	09/22/25	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	2,630
CS - 13	09/22/25	0.5	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	2,090
CS - 14	09/22/25	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	751



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Right Meow 31 CTB 7
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)	DRO + GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	10,000
Confirmation Soil Samples - nAPP2511547307										
CS - 15	09/22/25	4	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	2,860
CS - 16	09/22/25	4	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	2,270
SW - 1	09/22/25	0-0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	116
SW - 2	09/22/25	0-2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	388
SW - 3	09/22/25	0-0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	400
SW - 4	09/22/25	0-0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	129
SW - 5	09/22/25	0-4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	415
SW - 6	09/22/25	0-4	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	359

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 **bold 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.



RE: [EXTERNAL] RIGHT MEOW 31 CTB 7 - Extension Request - nAPP2511547307

From Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Date Wed 7/23/2025 1:19 PM

To Gilbert Moreno <gmoreno@earthsys.net>

Cc Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Raley, Jim <jim.rale@dmn.com>

Good afternoon,

A 90-day extension is approved for NAPP2511547307 RIGHT MEOW 31 CTB 7. A remediation closure report must be submitted to the OCD Permitting website no later than October 22, 2025. Please include a copy of this and all notifications in the report to ensure the notifications are documented in the project file.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Gilbert Moreno <gmoreno@earthsys.net>

Sent: Wednesday, July 23, 2025 12:26 PM

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

Cc: Raley, Jim <jim.rale@dmn.com>

Subject: [EXTERNAL] RIGHT MEOW 31 CTB 7 - Extension Request - nAPP2511547307

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

Hello,

Earth Sytems R & R (ESRR) on behalf of Devon Energy (Devon) is requesting an extension to the current deadline for a report required in 19.15.29.12.B(1) NMAC at the RIGHT MEOW 31 CTB 7 (Site).

A produced water release was discovered on April 25, 2025, and was subsequently assigned Incident Number nAPP2511547307. ESRR performed initial site assessment activities on April 28, 2025, and initial delineation activities during May 2025. Due to safety encroachment guideline concerns, Devon has had to consider all options for remediation near active above ground and subsurface equipment and utilities.

A scope of work for remediation is scheduled to be sent out for bid by end of July and should be awarded in August 2025.

Devon requests an extension of the July 24, 2025, deadline for the release associated with Incident Number nAPP2511547307, to allow additional time to complete remediation activities. Upon completion of activities and favorable soil sample laboratory analyticals, ESRR will complete a subsequent corrective action closure report.

Thanks,

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



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 506559

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 506559
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2511547307
Incident Name	NAPP2511547307 RIGHT MEOW 31 CTB 7 @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Facility	[fAPP2125751032] RIGHT MEOW 31 CTB 7

Location of Release Source	
Site Name	RIGHT MEOW 31 CTB 7
Date Release Discovered	04/25/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,748
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/22/2025
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	32.265538,-103.71086

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oecd/contact-us>

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

CONDITIONS

Action 506559

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 506559
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	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.	9/17/2025
jraley	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	9/17/2025



Outlook

FW: [EXTERNAL] RIGHT MEOW 31 CTB 7 - Extension Request - nAPP2511547307

From Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Date Tue 10/28/2025 1:27 PM

To Gilbert Moreno <gmoreno@earthsys.net>

Cc Raley, Jim <jim.rale@dmn.com>; CFO_Spill, BLM_NM <blm_nm_cfo_spill@blm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Hi Gilbert,

A 30-day extension is approved for nAPP2511547307 RIGHT MEOW 31 CTB 7. A remediation closure report must be submitted to the OCD Permitting website no later than November 21, 2025. Please include a copy of this and all notifications in the report to ensure the notifications are documented in the project file.

Kind regards,

Shelly

Shelly Wells * Senior Environmental Scientist
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Gilbert Moreno <gmoreno@earthsys.net>

Sent: Monday, October 20, 2025 11:41 AM

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

Cc: Raley, Jim <jim.rale@dmn.com>; CFO_Spill, BLM_NM <blm_nm_cfo_spill@blm.gov>

Subject: [EXTERNAL] RIGHT MEOW 31 CTB 7 - Extension Request - nAPP2511547307

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Hello,

Earth Sytems R & R (ESRR) on behalf of Devon Energy (Devon) is requesting an additional extension to the current deadline for a report required in 19.15.29.12.B(1) NMAC at the RIGHT MEOW 31 CTB 7 (Site).

As previously mentioned, Devon oversaw all remediation activities performed by a third-party contractor during September 2025. As of October 8, 2025, the third-party contractor completed final restoration activities of the area of concern. ESRR is in the final stages of the subsequent corrective action closure report and anticipates having it finalized by October 27, 2025.

Devon requests a 15 to 30-day extension of the October 22, 2025, deadline for the release associated with Incident Number nAPP2511547307, to allow additional time for ESRR to complete the subsequent corrective action closure report.

Regards,

Gilbert Moreno

Carlsbad Operations Manager- Project Geologist

O: (575) 323-9034 C: (832) 541-7719

gmoreno@earthsys.net

earthsys.net



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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/20/2025 11:35:00 AM

JOB DESCRIPTION

Right Meow 31 CTB 7
Lea County, NM

JOB NUMBER

890-8162-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



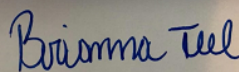
Eurofins Carlsbad

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



Generated
5/20/2025 11:35:00 AM

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

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Laboratory Job ID: 890-8162-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	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
MQL	Method Quantitation Limit
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)
RL	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

Case Narrative

Client: Earth Systems Response and Restoration
Project: Right Meow 31 CTB 7

Job ID: 890-8162-1

Job ID: 890-8162-1**Eurofins Carlsbad**

Job Narrative
890-8162-1

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 5/15/2025 8:20 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 -6.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 1 (890-8162-1), HA - 1 (890-8162-2), HA - 1 (890-8162-3), HA - 2 (890-8162-4), HA - 2 (890-8162-5), HA - 2 (890-8162-6), HA - 3 (890-8162-7), HA - 3 (890-8162-8), HA - 3 (890-8162-9), HA - 4 (890-8162-10), HA - 4 (890-8162-11), HA - 4 (890-8162-12), HA - 5 (890-8162-13), HA - 5 (890-8162-14), HA - 6 (890-8162-15), HA - 6 (890-8162-16), HA - 6 (890-8162-17), HA - 7 (890-8162-18), HA - 7 (890-8162-19), HA - 8 (890-8162-20), HA - 8 (890-8162-21), HA - 9 (890-8162-22), HA - 9 (890-8162-23), HA - 9 (890-8162-24), HA - 10 (890-8162-25), HA - 10 (890-8162-26), HA - 10 (890-8162-27), HA - 11 (890-8162-28), HA - 11 (890-8162-29), HA - 11 (890-8162-30), HA - 12 (890-8162-31) and HA - 12 (890-8162-32).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: HA - 4 (890-8162-11). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA - 10 (890-8162-26), HA - 11 (890-8162-30), HA - 12 (890-8162-31) and (880-58192-A-1-H). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: HA - 1 (890-8162-1). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-110250 and analytical batch 880-110397 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-110463/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA - 12 (890-8162-32) and (890-8162-A-31-E MS). 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.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110282 and analytical batch 880-110358 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: HA - 1 (890-8162-1), HA - 1 (890-8162-2), HA - 1 (890-8162-3), HA - 2 (890-8162-4), HA - 2

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Case Narrative

Client: Earth Systems Response and Restoration
Project: Right Meow 31 CTB 7

Job ID: 890-8162-1

Job ID: 890-8162-1 (Continued) Eurofins Carlsbad

(890-8162-5), HA - 2 (890-8162-6), HA - 3 (890-8162-7), HA - 3 (890-8162-8), HA - 3 (890-8162-9), (880-58217-A-3-B), (880-58217-A-3-C MS) and (880-58217-A-3-D MSD).

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

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 1

Lab Sample ID: 890-8162-1

Date Collected: 05/13/25 12:05

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/16/25 22:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/16/25 22:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/16/25 22:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/16/25 11:30	05/16/25 22:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/16/25 22:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/16/25 11:30	05/16/25 22:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	05/16/25 11:30	05/16/25 22:33	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/16/25 11:30	05/16/25 22:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/16/25 22:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/17/25 16:40	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	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 16:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 16:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	05/15/25 14:40	05/17/25 16:40	1
o-Terphenyl	131	S1+	70 - 130	05/15/25 14:40	05/17/25 16:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10500		99.6		mg/Kg			05/16/25 21:16	10

Client Sample ID: HA - 1

Lab Sample ID: 890-8162-2

Date Collected: 05/13/25 12:10

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/16/25 11:30	05/16/25 22:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/16/25 11:30	05/16/25 22:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/16/25 11:30	05/16/25 22:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/16/25 11:30	05/16/25 22:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/16/25 11:30	05/16/25 22:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/16/25 11:30	05/16/25 22:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	05/16/25 11:30	05/16/25 22:53	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 1

Lab Sample ID: 890-8162-2

Date Collected: 05/13/25 12:10

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130	05/16/25 11:30	05/16/25 22:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/16/25 22:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/17/25 17:24	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	<50.1	U	50.1		mg/Kg		05/15/25 14:40	05/17/25 17:24	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/15/25 14:40	05/17/25 17:24	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/15/25 14:40	05/17/25 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				05/15/25 14:40	05/17/25 17:24	1
o-Terphenyl	130		70 - 130				05/15/25 14:40	05/17/25 17:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10100		200		mg/Kg			05/16/25 21:21	20

Client Sample ID: HA - 1

Lab Sample ID: 890-8162-3

Date Collected: 05/13/25 12:15

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 2

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		05/16/25 11:30	05/16/25 23:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/16/25 11:30	05/16/25 23:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/25 11:30	05/16/25 23:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/16/25 11:30	05/16/25 23:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/16/25 11:30	05/16/25 23:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/16/25 11:30	05/16/25 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	05/16/25 11:30	05/16/25 23:14	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/16/25 11:30	05/16/25 23:14	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			05/16/25 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/17/25 17:41	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 1

Lab Sample ID: 890-8162-3

Date Collected: 05/13/25 12:15

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 2

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		05/15/25 14:40	05/17/25 17:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/25 14:40	05/17/25 17:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/25 14:40	05/17/25 17:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				05/15/25 14:40	05/17/25 17:41	1
o-Terphenyl	121		70 - 130				05/15/25 14:40	05/17/25 17:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5970		101		mg/Kg			05/16/25 21:37	10

Client Sample ID: HA - 2

Lab Sample ID: 890-8162-4

Date Collected: 05/13/25 12:20

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

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		05/16/25 11:30	05/16/25 23:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/16/25 11:30	05/16/25 23:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/16/25 11:30	05/16/25 23:34	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/16/25 11:30	05/16/25 23:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/16/25 11:30	05/16/25 23:34	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/16/25 11:30	05/16/25 23:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				05/16/25 11:30	05/16/25 23:34	1
1,4-Difluorobenzene (Surr)	91		70 - 130				05/16/25 11:30	05/16/25 23:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/16/25 23:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/17/25 17:56	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	<50.1	U	50.1		mg/Kg		05/15/25 14:40	05/17/25 17:56	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/15/25 14:40	05/17/25 17:56	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/15/25 14:40	05/17/25 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				05/15/25 14:40	05/17/25 17:56	1
o-Terphenyl	113		70 - 130				05/15/25 14:40	05/17/25 17:56	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 2

Lab Sample ID: 890-8162-4

Date Collected: 05/13/25 12:20

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9590		99.4		mg/Kg			05/16/25 21:42	10

Client Sample ID: HA - 2

Lab Sample ID: 890-8162-5

Date Collected: 05/13/25 12:25

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/16/25 11:30	05/16/25 23:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/16/25 11:30	05/16/25 23:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/16/25 11:30	05/16/25 23:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/16/25 11:30	05/16/25 23:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/16/25 11:30	05/16/25 23:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/16/25 11:30	05/16/25 23:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				05/16/25 11:30	05/16/25 23:55	1
1,4-Difluorobenzene (Surr)	105		70 - 130				05/16/25 11:30	05/16/25 23:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/16/25 23:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/17/25 18:11	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	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 18:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 18:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				05/15/25 14:40	05/17/25 18:11	1
o-Terphenyl	125		70 - 130				05/15/25 14:40	05/17/25 18:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8430		99.6		mg/Kg			05/16/25 21:47	10

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 2

Lab Sample ID: 890-8162-6

Date Collected: 05/13/25 12:30

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 2

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		05/16/25 11:30	05/17/25 00:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/16/25 11:30	05/17/25 00:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/25 11:30	05/17/25 00:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/16/25 11:30	05/17/25 00:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/16/25 11:30	05/17/25 00:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/16/25 11:30	05/17/25 00:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	05/16/25 11:30	05/17/25 00:16	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/16/25 11:30	05/17/25 00:16	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			05/17/25 00:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/17/25 18:26	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		05/15/25 14:40	05/17/25 18:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/25 14:40	05/17/25 18:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/25 14:40	05/17/25 18:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	05/15/25 14:40	05/17/25 18:26	1
o-Terphenyl	107		70 - 130	05/15/25 14:40	05/17/25 18:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	411		10.1		mg/Kg			05/16/25 21:52	1

Client Sample ID: HA - 3

Lab Sample ID: 890-8162-7

Date Collected: 05/13/25 12:35

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/16/25 11:30	05/17/25 00:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/16/25 11:30	05/17/25 00:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/16/25 11:30	05/17/25 00:36	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/16/25 11:30	05/17/25 00:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/16/25 11:30	05/17/25 00:36	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/16/25 11:30	05/17/25 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	05/16/25 11:30	05/17/25 00:36	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 3

Lab Sample ID: 890-8162-7

Date Collected: 05/13/25 12:35

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	05/16/25 11:30	05/17/25 00:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/17/25 00:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/17/25 18:41	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	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 18:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 18:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				05/15/25 14:40	05/17/25 18:41	1
o-Terphenyl	120		70 - 130				05/15/25 14:40	05/17/25 18:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8430		101		mg/Kg			05/16/25 21:58	10

Client Sample ID: HA - 3

Lab Sample ID: 890-8162-8

Date Collected: 05/13/25 12:40

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 00:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 00:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 00:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/16/25 11:30	05/17/25 00:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 00:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/16/25 11:30	05/17/25 00:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	05/16/25 11:30	05/17/25 00:57	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/16/25 11:30	05/17/25 00:57	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			05/17/25 00:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/17/25 18:56	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 3

Lab Sample ID: 890-8162-8

Date Collected: 05/13/25 12:40

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 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	<49.7	U	49.7		mg/Kg		05/15/25 14:40	05/17/25 18:56	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/15/25 14:40	05/17/25 18:56	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/15/25 14:40	05/17/25 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				05/15/25 14:40	05/17/25 18:56	1
o-Terphenyl	117		70 - 130				05/15/25 14:40	05/17/25 18:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2450		50.2		mg/Kg			05/16/25 22:03	5

Client Sample ID: HA - 3

Lab Sample ID: 890-8162-9

Date Collected: 05/13/25 12:45

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 2

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		05/16/25 11:30	05/17/25 01:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/16/25 11:30	05/17/25 01:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/16/25 11:30	05/17/25 01:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/16/25 11:30	05/17/25 01:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/16/25 11:30	05/17/25 01:17	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/16/25 11:30	05/17/25 01:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				05/16/25 11:30	05/17/25 01:17	1
1,4-Difluorobenzene (Surr)	95		70 - 130				05/16/25 11:30	05/17/25 01:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/17/25 01:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/17/25 19:12	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	<49.7	U	49.7		mg/Kg		05/15/25 14:40	05/17/25 19:12	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/15/25 14:40	05/17/25 19:12	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/15/25 14:40	05/17/25 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				05/15/25 14:40	05/17/25 19:12	1
o-Terphenyl	124		70 - 130				05/15/25 14:40	05/17/25 19:12	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 3

Lab Sample ID: 890-8162-9

Date Collected: 05/13/25 12:45

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7220		101		mg/Kg			05/16/25 22:08	10

Client Sample ID: HA - 4

Lab Sample ID: 890-8162-10

Date Collected: 05/13/25 12:50

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

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		05/16/25 11:30	05/17/25 01:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/16/25 11:30	05/17/25 01:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/16/25 11:30	05/17/25 01:38	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/16/25 11:30	05/17/25 01:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/16/25 11:30	05/17/25 01:38	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/16/25 11:30	05/17/25 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				05/16/25 11:30	05/17/25 01:38	1
1,4-Difluorobenzene (Surr)	92		70 - 130				05/16/25 11:30	05/17/25 01:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/17/25 01:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/17/25 19:27	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		05/15/25 14:40	05/17/25 19:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/25 14:40	05/17/25 19:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/25 14:40	05/17/25 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				05/15/25 14:40	05/17/25 19:27	1
o-Terphenyl	122		70 - 130				05/15/25 14:40	05/17/25 19:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8240		101		mg/Kg			05/16/25 12:50	10

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 4

Lab Sample ID: 890-8162-11

Date Collected: 05/13/25 12:55

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 03:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 03:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 03:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/16/25 11:30	05/17/25 03:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 03:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/16/25 11:30	05/17/25 03:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	05/16/25 11:30	05/17/25 03:02	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	05/16/25 11:30	05/17/25 03:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/17/25 03:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/17/25 19:57	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		05/15/25 14:40	05/17/25 19:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/25 14:40	05/17/25 19:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/25 14:40	05/17/25 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	05/15/25 14:40	05/17/25 19:57	1
o-Terphenyl	125		70 - 130	05/15/25 14:40	05/17/25 19:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2300		50.4		mg/Kg			05/16/25 13:10	5

Client Sample ID: HA - 4

Lab Sample ID: 890-8162-12

Date Collected: 05/13/25 13:00

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/16/25 11:30	05/17/25 03:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/16/25 11:30	05/17/25 03:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/16/25 11:30	05/17/25 03:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/16/25 11:30	05/17/25 03:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/16/25 11:30	05/17/25 03:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/16/25 11:30	05/17/25 03:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	05/16/25 11:30	05/17/25 03:22	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 4

Lab Sample ID: 890-8162-12

Date Collected: 05/13/25 13:00

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	05/16/25 11:30	05/17/25 03:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/17/25 03:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/17/25 20:12	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	<49.9	U	49.9		mg/Kg		05/15/25 14:40	05/17/25 20:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/15/25 14:40	05/17/25 20:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/15/25 14:40	05/17/25 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				05/15/25 14:40	05/17/25 20:12	1
o-Terphenyl	125		70 - 130				05/15/25 14:40	05/17/25 20:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	138		9.94		mg/Kg			05/16/25 13:17	1

Client Sample ID: HA - 5

Lab Sample ID: 890-8162-13

Date Collected: 05/13/25 13:05

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 03:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 03:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 03:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/16/25 11:30	05/17/25 03:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 03:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/16/25 11:30	05/17/25 03:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	05/16/25 11:30	05/17/25 03:43	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/16/25 11:30	05/17/25 03:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/17/25 03:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/17/25 20:28	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 5

Lab Sample ID: 890-8162-13

Date Collected: 05/13/25 13:05

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

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	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 20:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 20:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				05/15/25 14:40	05/17/25 20:28	1
o-Terphenyl	123		70 - 130				05/15/25 14:40	05/17/25 20:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9530		99.8		mg/Kg			05/16/25 13:24	10

Client Sample ID: HA - 5

Lab Sample ID: 890-8162-14

Date Collected: 05/13/25 13:10

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 1

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		05/16/25 11:30	05/17/25 04:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/16/25 11:30	05/17/25 04:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/25 11:30	05/17/25 04:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/16/25 11:30	05/17/25 04:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/16/25 11:30	05/17/25 04:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/16/25 11:30	05/17/25 04:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				05/16/25 11:30	05/17/25 04:03	1
1,4-Difluorobenzene (Surr)	86		70 - 130				05/16/25 11:30	05/17/25 04:03	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			05/17/25 04:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/17/25 20:43	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		05/15/25 14:40	05/17/25 20:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/25 14:40	05/17/25 20:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/25 14:40	05/17/25 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				05/15/25 14:40	05/17/25 20:43	1
o-Terphenyl	121		70 - 130				05/15/25 14:40	05/17/25 20:43	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 5

Lab Sample ID: 890-8162-14

Date Collected: 05/13/25 13:10

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5140		49.6		mg/Kg			05/16/25 13:31	5

Client Sample ID: HA - 6

Lab Sample ID: 890-8162-15

Date Collected: 05/13/25 13:15

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 04:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 04:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 04:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/16/25 11:30	05/17/25 04:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 04:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/16/25 11:30	05/17/25 04:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				05/16/25 11:30	05/17/25 04:24	1
1,4-Difluorobenzene (Surr)	94		70 - 130				05/16/25 11:30	05/17/25 04:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/17/25 04:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/17/25 20:58	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	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 20:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 20:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 20:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				05/15/25 14:40	05/17/25 20:58	1
o-Terphenyl	108		70 - 130				05/15/25 14:40	05/17/25 20:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2070		50.5		mg/Kg			05/16/25 13:51	5

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 6

Lab Sample ID: 890-8162-16

Date Collected: 05/13/25 13:20

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 04:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 04:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 04:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/16/25 11:30	05/17/25 04:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 04:44	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/16/25 11:30	05/17/25 04:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	05/16/25 11:30	05/17/25 04:44	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/16/25 11:30	05/17/25 04:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/17/25 04:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/17/25 21:13	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	<49.7	U	49.7		mg/Kg		05/15/25 14:40	05/17/25 21:13	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/15/25 14:40	05/17/25 21:13	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/15/25 14:40	05/17/25 21:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	05/15/25 14:40	05/17/25 21:13	1
o-Terphenyl	128		70 - 130	05/15/25 14:40	05/17/25 21:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4270		49.7		mg/Kg			05/16/25 13:58	5

Client Sample ID: HA - 6

Lab Sample ID: 890-8162-17

Date Collected: 05/13/25 13:25

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 2

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		05/16/25 11:30	05/17/25 05:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/16/25 11:30	05/17/25 05:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/25 11:30	05/17/25 05:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/16/25 11:30	05/17/25 05:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/16/25 11:30	05/17/25 05:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/16/25 11:30	05/17/25 05:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	05/16/25 11:30	05/17/25 05:05	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 6

Lab Sample ID: 890-8162-17

Date Collected: 05/13/25 13:25

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89		70 - 130	05/16/25 11:30	05/17/25 05:05	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			05/17/25 05:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/17/25 21:28	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	<49.7	U	49.7		mg/Kg		05/15/25 14:40	05/17/25 21:28	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/15/25 14:40	05/17/25 21:28	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/15/25 14:40	05/17/25 21:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				05/15/25 14:40	05/17/25 21:28	1
o-Terphenyl	127		70 - 130				05/15/25 14:40	05/17/25 21:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2210		49.8		mg/Kg			05/16/25 14:05	5

Client Sample ID: HA - 7

Lab Sample ID: 890-8162-18

Date Collected: 05/13/25 13:30

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

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		05/16/25 11:30	05/17/25 05:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/16/25 11:30	05/17/25 05:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/25 11:30	05/17/25 05:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/16/25 11:30	05/17/25 05:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/16/25 11:30	05/17/25 05:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/16/25 11:30	05/17/25 05:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	05/16/25 11:30	05/17/25 05:25	1
1,4-Difluorobenzene (Surr)	80		70 - 130	05/16/25 11:30	05/17/25 05:25	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			05/17/25 05:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/17/25 21:43	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 7

Lab Sample ID: 890-8162-18

Date Collected: 05/13/25 13:30

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

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		05/15/25 14:40	05/17/25 21:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/25 14:40	05/17/25 21:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/25 14:40	05/17/25 21:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				05/15/25 14:40	05/17/25 21:43	1
o-Terphenyl	113		70 - 130				05/15/25 14:40	05/17/25 21:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	167		9.90		mg/Kg			05/16/25 14:12	1

Client Sample ID: HA - 7

Lab Sample ID: 890-8162-19

Date Collected: 05/13/25 13:35

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 05:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 05:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 05:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/16/25 11:30	05/17/25 05:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/17/25 05:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/16/25 11:30	05/17/25 05:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				05/16/25 11:30	05/17/25 05:46	1
1,4-Difluorobenzene (Surr)	95		70 - 130				05/16/25 11:30	05/17/25 05:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/17/25 05:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/17/25 21:58	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	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 21:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 21:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/15/25 14:40	05/17/25 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/15/25 14:40	05/17/25 21:58	1
o-Terphenyl	109		70 - 130				05/15/25 14:40	05/17/25 21:58	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 7

Lab Sample ID: 890-8162-19

Date Collected: 05/13/25 13:35

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		10.1		mg/Kg			05/16/25 14:18	1

Client Sample ID: HA - 8

Lab Sample ID: 890-8162-20

Date Collected: 05/14/25 12:00

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

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		05/16/25 11:30	05/17/25 06:06	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/16/25 11:30	05/17/25 06:06	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/16/25 11:30	05/17/25 06:06	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/16/25 11:30	05/17/25 06:06	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/16/25 11:30	05/17/25 06:06	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/16/25 11:30	05/17/25 06:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				05/16/25 11:30	05/17/25 06:06	1
1,4-Difluorobenzene (Surr)	96		70 - 130				05/16/25 11:30	05/17/25 06:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/17/25 06:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/17/25 22:15	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	<49.9	U	49.9		mg/Kg		05/15/25 14:40	05/17/25 22:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/15/25 14:40	05/17/25 22:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/15/25 14:40	05/17/25 22:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				05/15/25 14:40	05/17/25 22:15	1
o-Terphenyl	121		70 - 130				05/15/25 14:40	05/17/25 22:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		9.96		mg/Kg			05/16/25 14:25	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 8

Lab Sample ID: 890-8162-21

Date Collected: 05/14/25 12:05

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 1

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		05/16/25 15:30	05/17/25 05:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/16/25 15:30	05/17/25 05:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/25 15:30	05/17/25 05:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/16/25 15:30	05/17/25 05:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/16/25 15:30	05/17/25 05:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/16/25 15:30	05/17/25 05:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	05/16/25 15:30	05/17/25 05:36	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/16/25 15:30	05/17/25 05:36	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			05/17/25 05:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/18/25 00:14	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	<49.9	U	49.9		mg/Kg		05/15/25 14:43	05/18/25 00:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/15/25 14:43	05/18/25 00:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/15/25 14:43	05/18/25 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	05/15/25 14:43	05/18/25 00:14	1
o-Terphenyl	129		70 - 130	05/15/25 14:43	05/18/25 00:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		9.92		mg/Kg			05/16/25 14:46	1

Client Sample ID: HA - 9

Lab Sample ID: 890-8162-22

Date Collected: 05/14/25 12:10

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/25 15:30	05/17/25 05:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/25 15:30	05/17/25 05:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/25 15:30	05/17/25 05:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/16/25 15:30	05/17/25 05:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/25 15:30	05/17/25 05:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/16/25 15:30	05/17/25 05:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	05/16/25 15:30	05/17/25 05:57	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 9

Lab Sample ID: 890-8162-22

Date Collected: 05/14/25 12:10

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	05/16/25 15:30	05/17/25 05:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/17/25 05:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/18/25 01:00	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	<49.7	U	49.7		mg/Kg		05/15/25 14:43	05/18/25 01:00	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/15/25 14:43	05/18/25 01:00	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/15/25 14:43	05/18/25 01:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				05/15/25 14:43	05/18/25 01:00	1
o-Terphenyl	126		70 - 130				05/15/25 14:43	05/18/25 01:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	171		9.96		mg/Kg			05/16/25 14:52	1

Client Sample ID: HA - 9

Lab Sample ID: 890-8162-23

Date Collected: 05/14/25 12:15

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/25 15:30	05/17/25 06:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/25 15:30	05/17/25 06:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/25 15:30	05/17/25 06:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/16/25 15:30	05/17/25 06:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/25 15:30	05/17/25 06:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/16/25 15:30	05/17/25 06:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	05/16/25 15:30	05/17/25 06:17	1
1,4-Difluorobenzene (Surr)	94		70 - 130	05/16/25 15:30	05/17/25 06:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/17/25 06:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/18/25 01:15	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 9

Lab Sample ID: 890-8162-23

Date Collected: 05/14/25 12:15

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 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	<49.8	U	49.8		mg/Kg		05/15/25 14:43	05/18/25 01:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/15/25 14:43	05/18/25 01:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/15/25 14:43	05/18/25 01:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				05/15/25 14:43	05/18/25 01:15	1
o-Terphenyl	126		70 - 130				05/15/25 14:43	05/18/25 01:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146		9.96		mg/Kg			05/16/25 15:13	1

Client Sample ID: HA - 9

Lab Sample ID: 890-8162-24

Date Collected: 05/14/25 12:20

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 2

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		05/16/25 15:30	05/17/25 06:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/16/25 15:30	05/17/25 06:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/25 15:30	05/17/25 06:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/16/25 15:30	05/17/25 06:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/16/25 15:30	05/17/25 06:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/16/25 15:30	05/17/25 06:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				05/16/25 15:30	05/17/25 06:38	1
1,4-Difluorobenzene (Surr)	99		70 - 130				05/16/25 15:30	05/17/25 06:38	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			05/17/25 06:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/18/25 01:31	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		05/15/25 14:43	05/18/25 01:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/25 14:43	05/18/25 01:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/25 14:43	05/18/25 01:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				05/15/25 14:43	05/18/25 01:31	1
o-Terphenyl	125		70 - 130				05/15/25 14:43	05/18/25 01:31	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 9

Lab Sample ID: 890-8162-24

Date Collected: 05/14/25 12:20

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	157		10.0		mg/Kg			05/16/25 15:20	1

Client Sample ID: HA - 10

Lab Sample ID: 890-8162-25

Date Collected: 05/14/25 12:25

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

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		05/16/25 15:30	05/17/25 06:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/16/25 15:30	05/17/25 06:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/25 15:30	05/17/25 06:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/16/25 15:30	05/17/25 06:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/16/25 15:30	05/17/25 06:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/16/25 15:30	05/17/25 06:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				05/16/25 15:30	05/17/25 06:58	1
1,4-Difluorobenzene (Surr)	100		70 - 130				05/16/25 15:30	05/17/25 06:58	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			05/17/25 06:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/18/25 01:46	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		05/15/25 14:43	05/18/25 01:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/25 14:43	05/18/25 01:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/25 14:43	05/18/25 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				05/15/25 14:43	05/18/25 01:46	1
o-Terphenyl	126		70 - 130				05/15/25 14:43	05/18/25 01:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4870		50.5		mg/Kg			05/16/25 15:26	5

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 10

Lab Sample ID: 890-8162-26

Date Collected: 05/14/25 12:30

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/25 15:30	05/17/25 07:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/25 15:30	05/17/25 07:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/25 15:30	05/17/25 07:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/16/25 15:30	05/17/25 07:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/25 15:30	05/17/25 07:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/16/25 15:30	05/17/25 07:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	05/16/25 15:30	05/17/25 07:19	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/16/25 15:30	05/17/25 07:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/17/25 07:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/18/25 02:03	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	<49.9	U	49.9		mg/Kg		05/15/25 14:43	05/18/25 02:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/15/25 14:43	05/18/25 02:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/15/25 14:43	05/18/25 02:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	05/15/25 14:43	05/18/25 02:03	1
o-Terphenyl	112		70 - 130	05/15/25 14:43	05/18/25 02:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	830		9.94		mg/Kg			05/16/25 15:33	1

Client Sample ID: HA - 10

Lab Sample ID: 890-8162-27

Date Collected: 05/14/25 12:35

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/25 15:30	05/17/25 02:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/25 15:30	05/17/25 02:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/25 15:30	05/17/25 02:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/16/25 15:30	05/17/25 02:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/25 15:30	05/17/25 02:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/16/25 15:30	05/17/25 02:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	05/16/25 15:30	05/17/25 02:08	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 10

Lab Sample ID: 890-8162-27

Date Collected: 05/14/25 12:35

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	86		70 - 130	05/16/25 15:30	05/17/25 02:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/17/25 02:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/18/25 02:18	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	<49.8	U	49.8		mg/Kg		05/15/25 14:43	05/18/25 02:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/15/25 14:43	05/18/25 02:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/15/25 14:43	05/18/25 02:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				05/15/25 14:43	05/18/25 02:18	1
o-Terphenyl	121		70 - 130				05/15/25 14:43	05/18/25 02:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		9.92		mg/Kg			05/16/25 15:40	1

Client Sample ID: HA - 11

Lab Sample ID: 890-8162-28

Date Collected: 05/14/25 12:40

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/16/25 15:30	05/17/25 02:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/16/25 15:30	05/17/25 02:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/16/25 15:30	05/17/25 02:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/16/25 15:30	05/17/25 02:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/16/25 15:30	05/17/25 02:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/16/25 15:30	05/17/25 02:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	05/16/25 15:30	05/17/25 02:28	1
1,4-Difluorobenzene (Surr)	87		70 - 130	05/16/25 15:30	05/17/25 02:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/17/25 02:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/18/25 02:34	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 11

Lab Sample ID: 890-8162-28

Date Collected: 05/14/25 12:40

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

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	<49.8	U	49.8		mg/Kg		05/15/25 14:43	05/18/25 02:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/15/25 14:43	05/18/25 02:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/15/25 14:43	05/18/25 02:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				05/15/25 14:43	05/18/25 02:34	1
o-Terphenyl	129		70 - 130				05/15/25 14:43	05/18/25 02:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		9.96		mg/Kg			05/16/25 15:47	1

Client Sample ID: HA - 11

Lab Sample ID: 890-8162-29

Date Collected: 05/14/25 12:45

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 1

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		05/16/25 15:30	05/17/25 02:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/16/25 15:30	05/17/25 02:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/25 15:30	05/17/25 02:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/16/25 15:30	05/17/25 02:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/16/25 15:30	05/17/25 02:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/16/25 15:30	05/17/25 02:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				05/16/25 15:30	05/17/25 02:49	1
1,4-Difluorobenzene (Surr)	82		70 - 130				05/16/25 15:30	05/17/25 02:49	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			05/17/25 02:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/18/25 02:49	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	<49.9	U	49.9		mg/Kg		05/15/25 14:43	05/18/25 02:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/15/25 14:43	05/18/25 02:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/15/25 14:43	05/18/25 02:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				05/15/25 14:43	05/18/25 02:49	1
o-Terphenyl	128		70 - 130				05/15/25 14:43	05/18/25 02:49	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 11

Lab Sample ID: 890-8162-29

Date Collected: 05/14/25 12:45

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		10.0		mg/Kg			05/16/25 15:54	1

Client Sample ID: HA - 11

Lab Sample ID: 890-8162-30

Date Collected: 05/14/25 12:50

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 2

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		05/19/25 09:36	05/19/25 13:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/19/25 09:36	05/19/25 13:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/19/25 09:36	05/19/25 13:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/19/25 09:36	05/19/25 13:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/19/25 09:36	05/19/25 13:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/19/25 09:36	05/19/25 13:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				05/19/25 09:36	05/19/25 13:27	1
1,4-Difluorobenzene (Surr)	91		70 - 130				05/19/25 09:36	05/19/25 13:27	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			05/19/25 13:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/18/25 03:05	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	<49.8	U	49.8		mg/Kg		05/15/25 14:43	05/18/25 03:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/15/25 14:43	05/18/25 03:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/15/25 14:43	05/18/25 03:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				05/15/25 14:43	05/18/25 03:05	1
o-Terphenyl	123		70 - 130				05/15/25 14:43	05/18/25 03:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		9.96		mg/Kg			05/16/25 10:36	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 12

Lab Sample ID: 890-8162-31

Date Collected: 05/14/25 12:55

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/19/25 09:36	05/19/25 13:48	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/19/25 09:36	05/19/25 13:48	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/19/25 09:36	05/19/25 13:48	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/19/25 09:36	05/19/25 13:48	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/19/25 09:36	05/19/25 13:48	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/19/25 09:36	05/19/25 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	05/19/25 09:36	05/19/25 13:48	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/19/25 09:36	05/19/25 13:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/19/25 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/19/25 20:37	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	<49.8	U	49.8		mg/Kg		05/19/25 15:44	05/19/25 20:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/19/25 15:44	05/19/25 20:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/19/25 15:44	05/19/25 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	05/19/25 15:44	05/19/25 20:37	1
o-Terphenyl	77		70 - 130	05/19/25 15:44	05/19/25 20:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	159		9.92		mg/Kg			05/16/25 10:52	1

Client Sample ID: HA - 12

Lab Sample ID: 890-8162-32

Date Collected: 05/14/25 13:00

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/25 08:40	05/16/25 17:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/25 08:40	05/16/25 17:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/25 08:40	05/16/25 17:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/16/25 08:40	05/16/25 17:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/25 08:40	05/16/25 17:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/16/25 08:40	05/16/25 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	05/16/25 08:40	05/16/25 17:40	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 12

Lab Sample ID: 890-8162-32

Date Collected: 05/14/25 13:00

Matrix: Solid

Date Received: 05/15/25 08:20

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130	05/16/25 08:40	05/16/25 17:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/16/25 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			05/19/25 21:22	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	<50.5	U	50.5		mg/Kg		05/19/25 15:44	05/19/25 21:22	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		05/19/25 15:44	05/19/25 21:22	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		05/19/25 15:44	05/19/25 21:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				05/19/25 15:44	05/19/25 21:22	1
o-Terphenyl	73		70 - 130				05/19/25 15:44	05/19/25 21:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	194		10.0		mg/Kg			05/16/25 10:57	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-8162-1	HA - 1	89	96
890-8162-1 MS	HA - 1	107	98
890-8162-1 MSD	HA - 1	106	94
890-8162-2	HA - 1	89	95
890-8162-3	HA - 1	91	94
890-8162-4	HA - 2	97	91
890-8162-5	HA - 2	107	105
890-8162-6	HA - 2	90	95
890-8162-7	HA - 3	99	92
890-8162-8	HA - 3	91	96
890-8162-9	HA - 3	90	95
890-8162-10	HA - 4	93	92
890-8162-11	HA - 4	95	69 S1-
890-8162-12	HA - 4	86	93
890-8162-13	HA - 5	91	91
890-8162-14	HA - 5	123	86
890-8162-15	HA - 6	86	94
890-8162-16	HA - 6	91	95
890-8162-17	HA - 6	90	89
890-8162-18	HA - 7	90	80
890-8162-19	HA - 7	92	95
890-8162-20	HA - 8	92	96
890-8162-21	HA - 8	71	100
890-8162-22	HA - 9	88	96
890-8162-23	HA - 9	100	94
890-8162-24	HA - 9	88	99
890-8162-25	HA - 10	90	100
890-8162-26	HA - 10	92	100
890-8162-27	HA - 10	102	86
890-8162-28	HA - 11	103	87
890-8162-29	HA - 11	107	82
890-8162-30	HA - 11	133 S1+	91
890-8162-31	HA - 12	134 S1+	91
890-8162-32	HA - 12	122	95
LCS 880-110287/1-A	Lab Control Sample	122	98
LCS 880-110312/1-A	Lab Control Sample	95	102
LCS 880-110313/1-A	Lab Control Sample	98	106
LCS 880-110321/1-A	Lab Control Sample	107	104
LCS 880-110419/1-A	Lab Control Sample	127	99
LCSD 880-110287/2-A	Lab Control Sample Dup	113	101
LCSD 880-110312/2-A	Lab Control Sample Dup	95	101
LCSD 880-110313/2-A	Lab Control Sample Dup	108	109
LCSD 880-110321/2-A	Lab Control Sample Dup	113	100
LCSD 880-110419/2-A	Lab Control Sample Dup	123	98
MB 880-110249/5-A	Method Blank	90	97
MB 880-110287/5-A	Method Blank	116	91
MB 880-110308/5-A	Method Blank	94	85
MB 880-110312/5-A	Method Blank	88	81
MB 880-110313/5-A	Method Blank	101	78

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
MB 880-110321/5-A	Method Blank	87	91
MB 880-110419/5-A	Method Blank	125	86
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 Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8162-1	HA - 1	126	131 S1+
890-8162-1 MS	HA - 1	125	122
890-8162-1 MSD	HA - 1	124	121
890-8162-2	HA - 1	126	130
890-8162-3	HA - 1	118	121
890-8162-4	HA - 2	107	113
890-8162-5	HA - 2	122	125
890-8162-6	HA - 2	102	107
890-8162-7	HA - 3	119	120
890-8162-8	HA - 3	117	117
890-8162-9	HA - 3	122	124
890-8162-10	HA - 4	120	122
890-8162-11	HA - 4	123	125
890-8162-12	HA - 4	125	125
890-8162-13	HA - 5	121	123
890-8162-14	HA - 5	119	121
890-8162-15	HA - 6	103	108
890-8162-16	HA - 6	125	128
890-8162-17	HA - 6	124	127
890-8162-18	HA - 7	106	113
890-8162-19	HA - 7	102	109
890-8162-20	HA - 8	120	121
890-8162-21	HA - 8	127	129
890-8162-21 MS	HA - 8	128	124
890-8162-21 MSD	HA - 8	127	123
890-8162-22	HA - 9	125	126
890-8162-23	HA - 9	124	126
890-8162-24	HA - 9	124	125
890-8162-25	HA - 10	125	126
890-8162-26	HA - 10	106	112
890-8162-27	HA - 10	123	121
890-8162-28	HA - 11	127	129
890-8162-29	HA - 11	126	128
890-8162-30	HA - 11	121	123
890-8162-31	HA - 12	74	77
890-8162-31 MS	HA - 12	133 S1+	130
890-8162-31 MSD	HA - 12	114	115
890-8162-32	HA - 12	68 S1-	73

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
LCS 880-110250/2-A	Lab Control Sample	70	70
LCS 880-110251/2-A	Lab Control Sample	76	77
LCS 880-110463/2-A	Lab Control Sample	132 S1+	131 S1+
LCSD 880-110250/3-A	Lab Control Sample Dup	116	117
LCSD 880-110251/3-A	Lab Control Sample Dup	78	76
LCSD 880-110463/3-A	Lab Control Sample Dup	114	116
MB 880-110250/1-A	Method Blank	131 S1+	135 S1+
MB 880-110251/1-A	Method Blank	73	74
MB 880-110463/1-A	Method Blank	87	94
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110249/5-A

Matrix: Solid

Analysis Batch: 110277

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110249

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/15/25 18:00	05/16/25 11:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/15/25 18:00	05/16/25 11:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/15/25 18:00	05/16/25 11:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/15/25 18:00	05/16/25 11:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/15/25 18:00	05/16/25 11:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/15/25 18:00	05/16/25 11:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	05/15/25 18:00	05/16/25 11:32	1
1,4-Difluorobenzene (Surr)	97		70 - 130	05/15/25 18:00	05/16/25 11:32	1

Lab Sample ID: MB 880-110287/5-A

Matrix: Solid

Analysis Batch: 110276

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110287

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/25 08:40	05/16/25 11:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/25 08:40	05/16/25 11:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/25 08:40	05/16/25 11:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/16/25 08:40	05/16/25 11:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/25 08:40	05/16/25 11:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/16/25 08:40	05/16/25 11:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	05/16/25 08:40	05/16/25 11:38	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/16/25 08:40	05/16/25 11:38	1

Lab Sample ID: LCS 880-110287/1-A

Matrix: Solid

Analysis Batch: 110276

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110287

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09210		mg/Kg		92	70 - 130
Toluene	0.100	0.09873		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.1044		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2064		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1034		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-110287/2-A

Matrix: Solid

Analysis Batch: 110276

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110287

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09400		mg/Kg		94	70 - 130	2	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-110287/2-A

Matrix: Solid

Analysis Batch: 110276

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110287

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09950		mg/Kg		100	70 - 130	1	35
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2027		mg/Kg		101	70 - 130	2	35
o-Xylene	0.100	0.1017		mg/Kg		102	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-110308/5-A

Matrix: Solid

Analysis Batch: 110280

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110308

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/25 10:43	05/16/25 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/25 10:43	05/16/25 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/25 10:43	05/16/25 12:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/16/25 10:43	05/16/25 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/25 10:43	05/16/25 12:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/16/25 10:43	05/16/25 12:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	05/16/25 10:43	05/16/25 12:35	1
1,4-Difluorobenzene (Surr)	85		70 - 130	05/16/25 10:43	05/16/25 12:35	1

Lab Sample ID: MB 880-110312/5-A

Matrix: Solid

Analysis Batch: 110280

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/25 10:47	05/16/25 23:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/25 10:47	05/16/25 23:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/25 10:47	05/16/25 23:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/16/25 10:47	05/16/25 23:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/25 10:47	05/16/25 23:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/16/25 10:47	05/16/25 23:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	05/16/25 10:47	05/16/25 23:34	1
1,4-Difluorobenzene (Surr)	81		70 - 130	05/16/25 10:47	05/16/25 23:34	1

Lab Sample ID: LCS 880-110312/1-A

Matrix: Solid

Analysis Batch: 110280

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08054		mg/Kg		81	70 - 130
Toluene	0.100	0.07817		mg/Kg		78	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-110312/1-A

Matrix: Solid

Analysis Batch: 110280

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.100	0.07657		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.200	0.1595		mg/Kg		80	70 - 130
o-Xylene	0.100	0.08373		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-110312/2-A

Matrix: Solid

Analysis Batch: 110280

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110312

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08739		mg/Kg		87	70 - 130	8	35
Toluene	0.100	0.08206		mg/Kg		82	70 - 130	5	35
Ethylbenzene	0.100	0.07961		mg/Kg		80	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1632		mg/Kg		82	70 - 130	2	35
o-Xylene	0.100	0.08464		mg/Kg		85	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-110313/5-A

Matrix: Solid

Analysis Batch: 110367

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110313

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/25 10:50	05/16/25 18:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/25 10:50	05/16/25 18:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/25 10:50	05/16/25 18:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/16/25 10:50	05/16/25 18:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/25 10:50	05/16/25 18:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/16/25 10:50	05/16/25 18:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	05/16/25 10:50	05/16/25 18:41	1
1,4-Difluorobenzene (Surr)	78		70 - 130	05/16/25 10:50	05/16/25 18:41	1

Lab Sample ID: LCS 880-110313/1-A

Matrix: Solid

Analysis Batch: 110367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1035		mg/Kg		103	70 - 130
Toluene	0.100	0.1006		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.09815		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2026		mg/Kg		101	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-110313/1-A

Matrix: Solid

Analysis Batch: 110367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09948		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-110313/2-A

Matrix: Solid

Analysis Batch: 110367

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110313

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1103		mg/Kg		110	70 - 130	6	35
Toluene	0.100	0.1078		mg/Kg		108	70 - 130	7	35
Ethylbenzene	0.100	0.1038		mg/Kg		104	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2161		mg/Kg		108	70 - 130	6	35
o-Xylene	0.100	0.1069		mg/Kg		107	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: MB 880-110321/5-A

Matrix: Solid

Analysis Batch: 110277

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/16/25 22:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/16/25 22:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/16/25 22:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/16/25 11:30	05/16/25 22:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/25 11:30	05/16/25 22:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/16/25 11:30	05/16/25 22:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	05/16/25 11:30	05/16/25 22:11	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/16/25 11:30	05/16/25 22:11	1

Lab Sample ID: LCS 880-110321/1-A

Matrix: Solid

Analysis Batch: 110277

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07388		mg/Kg		74	70 - 130
Toluene	0.100	0.07343		mg/Kg		73	70 - 130
Ethylbenzene	0.100	0.08715		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1651		mg/Kg		83	70 - 130
o-Xylene	0.100	0.08227		mg/Kg		82	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-110321/1-A

Matrix: Solid

Analysis Batch: 110277

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110321

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-110321/2-A

Matrix: Solid

Analysis Batch: 110277

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110321

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08537		mg/Kg		85	70 - 130	14	35
Toluene	0.100	0.07831		mg/Kg		78	70 - 130	6	35
Ethylbenzene	0.100	0.08731		mg/Kg		87	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1834		mg/Kg		92	70 - 130	10	35
o-Xylene	0.100	0.09143		mg/Kg		91	70 - 130	11	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-8162-1 MS

Matrix: Solid

Analysis Batch: 110277

Client Sample ID: HA - 1

Prep Type: Total/NA

Prep Batch: 110321

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08502		mg/Kg		85	70 - 130
Toluene	<0.00200	U	0.100	0.08565		mg/Kg		86	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09946		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1877		mg/Kg		94	70 - 130
o-Xylene	<0.00200	U	0.100	0.09194		mg/Kg		92	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-8162-1 MSD

Matrix: Solid

Analysis Batch: 110277

Client Sample ID: HA - 1

Prep Type: Total/NA

Prep Batch: 110321

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07803		mg/Kg		78	70 - 130	9	35
Toluene	<0.00200	U	0.100	0.07650		mg/Kg		76	70 - 130	11	35
Ethylbenzene	<0.00200	U	0.100	0.08744		mg/Kg		87	70 - 130	13	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1668		mg/Kg		83	70 - 130	12	35
o-Xylene	<0.00200	U	0.100	0.08123		mg/Kg		81	70 - 130	12	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-110419/5-A

Matrix: Solid

Analysis Batch: 110409

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110419

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:36	05/19/25 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:36	05/19/25 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:36	05/19/25 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/19/25 09:36	05/19/25 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:36	05/19/25 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/19/25 09:36	05/19/25 11:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	05/19/25 09:36	05/19/25 11:23	1
1,4-Difluorobenzene (Surr)	86		70 - 130	05/19/25 09:36	05/19/25 11:23	1

Lab Sample ID: LCS 880-110419/1-A

Matrix: Solid

Analysis Batch: 110409

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110419

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1023		mg/Kg		102	70 - 130
Toluene	0.100	0.1092		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1137		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2251		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1123		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-110419/2-A

Matrix: Solid

Analysis Batch: 110409

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110419

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09733		mg/Kg		97	70 - 130	5	35
Toluene	0.100	0.1030		mg/Kg		103	70 - 130	6	35
Ethylbenzene	0.100	0.1066		mg/Kg		107	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2103		mg/Kg		105	70 - 130	7	35
o-Xylene	0.100	0.1050		mg/Kg		105	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-110250/1-A

Matrix: Solid

Analysis Batch: 110397

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110250

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/15/25 14:37	05/17/25 14:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/25 14:37	05/17/25 14:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/25 14:37	05/17/25 14:54	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				05/15/25 14:37	05/17/25 14:54	1
o-Terphenyl	135	S1+	70 - 130				05/15/25 14:37	05/17/25 14:54	1

Lab Sample ID: LCS 880-110250/2-A

Matrix: Solid

Analysis Batch: 110397

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110250

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1141		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1276		mg/Kg		128	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	70		70 - 130				
o-Terphenyl	70		70 - 130				

Lab Sample ID: LCSD 880-110250/3-A

Matrix: Solid

Analysis Batch: 110397

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110250

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	949.8		mg/Kg		95	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	1000	1079		mg/Kg		108	70 - 130	17	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	116		70 - 130						
o-Terphenyl	117		70 - 130						

Lab Sample ID: 890-8162-1 MS

Matrix: Solid

Analysis Batch: 110397

Client Sample ID: HA - 1

Prep Type: Total/NA

Prep Batch: 110250

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	1015		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	999	917.9		mg/Kg		90	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

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

Lab Sample ID: 890-8162-1 MS

Matrix: Solid

Analysis Batch: 110397

Client Sample ID: HA - 1

Prep Type: Total/NA

Prep Batch: 110250

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	122		70 - 130

Lab Sample ID: 890-8162-1 MSD

Matrix: Solid

Analysis Batch: 110397

Client Sample ID: HA - 1

Prep Type: Total/NA

Prep Batch: 110250

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	998.2		mg/Kg		100	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	895.9		mg/Kg		88	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: MB 880-110251/1-A

Matrix: Solid

Analysis Batch: 110397

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110251

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/15/25 14:37	05/17/25 23:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/15/25 14:37	05/17/25 23:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/15/25 14:37	05/17/25 23:30	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	73		70 - 130	05/15/25 14:37	05/17/25 23:30	1
o-Terphenyl	74		70 - 130	05/15/25 14:37	05/17/25 23:30	1

Lab Sample ID: LCS 880-110251/2-A

Matrix: Solid

Analysis Batch: 110397

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110251

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1084		mg/Kg		108	70 - 130
Diesel Range Organics (Over C10-C28)	1000	926.0		mg/Kg		93	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	77		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-110251/3-A

Matrix: Solid

Analysis Batch: 110397

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110251

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1076		mg/Kg		108	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	889.3		mg/Kg		89	70 - 130	4	20
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	78		70 - 130						
o-Terphenyl	76		70 - 130						

Lab Sample ID: 890-8162-21 MS

Matrix: Solid

Analysis Batch: 110397

Client Sample ID: HA - 8

Prep Type: Total/NA

Prep Batch: 110251

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1004		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	996	934.8		mg/Kg		94	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	128		70 - 130								
o-Terphenyl	124		70 - 130								

Lab Sample ID: 890-8162-21 MSD

Matrix: Solid

Analysis Batch: 110397

Client Sample ID: HA - 8

Prep Type: Total/NA

Prep Batch: 110251

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	998.7		mg/Kg		100	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	924.9		mg/Kg		93	70 - 130	1	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	127		70 - 130								
o-Terphenyl	123		70 - 130								

Lab Sample ID: MB 880-110463/1-A

Matrix: Solid

Analysis Batch: 110440

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110463

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/19/25 15:44	05/19/25 19:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/19/25 15:44	05/19/25 19:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/19/25 15:44	05/19/25 19:52	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-110463/1-A

Matrix: Solid

Analysis Batch: 110440

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110463

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	05/19/25 15:44	05/19/25 19:52	1
o-Terphenyl	94		70 - 130	05/19/25 15:44	05/19/25 19:52	1

Lab Sample ID: LCS 880-110463/2-A

Matrix: Solid

Analysis Batch: 110440

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110463

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1140		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	1000	960.1		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	131	S1+	70 - 130

Lab Sample ID: LCSD 880-110463/3-A

Matrix: Solid

Analysis Batch: 110440

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110463

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	994.6		mg/Kg		99	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	851.1		mg/Kg		85	70 - 130	12	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: 890-8162-31 MS

Matrix: Solid

Analysis Batch: 110440

Client Sample ID: HA - 12

Prep Type: Total/NA

Prep Batch: 110463

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	995	1021		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	995	938.2		mg/Kg		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	130		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

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

Lab Sample ID: 890-8162-31 MSD

Matrix: Solid

Analysis Batch: 110440

Client Sample ID: HA - 12

Prep Type: Total/NA

Prep Batch: 110463

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	995	852.4		mg/Kg		86	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	<49.8	U	995	833.6		mg/Kg		82	70 - 130	12	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	114		70 - 130								
o-Terphenyl	115		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110285/1-A

Matrix: Solid

Analysis Batch: 110290

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/16/25 12:30	1

Lab Sample ID: LCS 880-110285/2-A

Matrix: Solid

Analysis Batch: 110290

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.9		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-110285/3-A

Matrix: Solid

Analysis Batch: 110290

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	257.4		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 890-8162-10 MS

Matrix: Solid

Analysis Batch: 110290

Client Sample ID: HA - 4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	8240		2530	10830		mg/Kg		102	90 - 110

Lab Sample ID: 890-8162-10 MSD

Matrix: Solid

Analysis Batch: 110290

Client Sample ID: HA - 4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8240		2530	10850		mg/Kg		103	90 - 110	0	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8162-20 MS

Matrix: Solid

Analysis Batch: 110290

Client Sample ID: HA - 8

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	180		249	427.2		mg/Kg		99	90 - 110

Lab Sample ID: 890-8162-20 MSD

Matrix: Solid

Analysis Batch: 110290

Client Sample ID: HA - 8

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	180		249	428.7		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-110288/1-A

Matrix: Solid

Analysis Batch: 110292

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/16/25 10:20	1

Lab Sample ID: LCS 880-110288/2-A

Matrix: Solid

Analysis Batch: 110292

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	237.6		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-110288/3-A

Matrix: Solid

Analysis Batch: 110292

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	239.1		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 890-8162-30 MS

Matrix: Solid

Analysis Batch: 110292

Client Sample ID: HA - 11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	125		249	382.4		mg/Kg		104	90 - 110

Lab Sample ID: 890-8162-30 MSD

Matrix: Solid

Analysis Batch: 110292

Client Sample ID: HA - 11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	125		249	383.8		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-110282/1-A

Matrix: Solid

Analysis Batch: 110358

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/16/25 19:32	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-110282/2-A					Client Sample ID: Lab Control Sample						
Matrix: Solid					Prep Type: Soluble						
Analysis Batch: 110358											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.2		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-110282/3-A					Client Sample ID: Lab Control Sample Dup						
Matrix: Solid					Prep Type: Soluble						
Analysis Batch: 110358											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	244.9		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

GC VOA

Prep Batch: 110249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-110249/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 110276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-32	HA - 12	Total/NA	Solid	8021B	110287
MB 880-110287/5-A	Method Blank	Total/NA	Solid	8021B	110287
LCS 880-110287/1-A	Lab Control Sample	Total/NA	Solid	8021B	110287
LCSD 880-110287/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110287

Analysis Batch: 110277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-1	HA - 1	Total/NA	Solid	8021B	110321
890-8162-2	HA - 1	Total/NA	Solid	8021B	110321
890-8162-3	HA - 1	Total/NA	Solid	8021B	110321
890-8162-4	HA - 2	Total/NA	Solid	8021B	110321
890-8162-5	HA - 2	Total/NA	Solid	8021B	110321
890-8162-6	HA - 2	Total/NA	Solid	8021B	110321
890-8162-7	HA - 3	Total/NA	Solid	8021B	110321
890-8162-8	HA - 3	Total/NA	Solid	8021B	110321
890-8162-9	HA - 3	Total/NA	Solid	8021B	110321
890-8162-10	HA - 4	Total/NA	Solid	8021B	110321
890-8162-11	HA - 4	Total/NA	Solid	8021B	110321
890-8162-12	HA - 4	Total/NA	Solid	8021B	110321
890-8162-13	HA - 5	Total/NA	Solid	8021B	110321
890-8162-14	HA - 5	Total/NA	Solid	8021B	110321
890-8162-15	HA - 6	Total/NA	Solid	8021B	110321
890-8162-16	HA - 6	Total/NA	Solid	8021B	110321
890-8162-17	HA - 6	Total/NA	Solid	8021B	110321
890-8162-18	HA - 7	Total/NA	Solid	8021B	110321
890-8162-19	HA - 7	Total/NA	Solid	8021B	110321
890-8162-20	HA - 8	Total/NA	Solid	8021B	110321
MB 880-110249/5-A	Method Blank	Total/NA	Solid	8021B	110249
MB 880-110321/5-A	Method Blank	Total/NA	Solid	8021B	110321
LCS 880-110321/1-A	Lab Control Sample	Total/NA	Solid	8021B	110321
LCSD 880-110321/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110321
890-8162-1 MS	HA - 1	Total/NA	Solid	8021B	110321
890-8162-1 MSD	HA - 1	Total/NA	Solid	8021B	110321

Analysis Batch: 110280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-21	HA - 8	Total/NA	Solid	8021B	110312
890-8162-22	HA - 9	Total/NA	Solid	8021B	110312
890-8162-23	HA - 9	Total/NA	Solid	8021B	110312
890-8162-24	HA - 9	Total/NA	Solid	8021B	110312
890-8162-25	HA - 10	Total/NA	Solid	8021B	110312
890-8162-26	HA - 10	Total/NA	Solid	8021B	110312
MB 880-110308/5-A	Method Blank	Total/NA	Solid	8021B	110308
MB 880-110312/5-A	Method Blank	Total/NA	Solid	8021B	110312
LCS 880-110312/1-A	Lab Control Sample	Total/NA	Solid	8021B	110312
LCSD 880-110312/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110312

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

GC VOA

Prep Batch: 110287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-32	HA - 12	Total/NA	Solid	5035	
MB 880-110287/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110287/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110287/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 110308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-110308/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 110312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-21	HA - 8	Total/NA	Solid	5035	
890-8162-22	HA - 9	Total/NA	Solid	5035	
890-8162-23	HA - 9	Total/NA	Solid	5035	
890-8162-24	HA - 9	Total/NA	Solid	5035	
890-8162-25	HA - 10	Total/NA	Solid	5035	
890-8162-26	HA - 10	Total/NA	Solid	5035	
MB 880-110312/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110312/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110312/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 110313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-27	HA - 10	Total/NA	Solid	5035	
890-8162-28	HA - 11	Total/NA	Solid	5035	
890-8162-29	HA - 11	Total/NA	Solid	5035	
MB 880-110313/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110313/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110313/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 110321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-1	HA - 1	Total/NA	Solid	5035	
890-8162-2	HA - 1	Total/NA	Solid	5035	
890-8162-3	HA - 1	Total/NA	Solid	5035	
890-8162-4	HA - 2	Total/NA	Solid	5035	
890-8162-5	HA - 2	Total/NA	Solid	5035	
890-8162-6	HA - 2	Total/NA	Solid	5035	
890-8162-7	HA - 3	Total/NA	Solid	5035	
890-8162-8	HA - 3	Total/NA	Solid	5035	
890-8162-9	HA - 3	Total/NA	Solid	5035	
890-8162-10	HA - 4	Total/NA	Solid	5035	
890-8162-11	HA - 4	Total/NA	Solid	5035	
890-8162-12	HA - 4	Total/NA	Solid	5035	
890-8162-13	HA - 5	Total/NA	Solid	5035	
890-8162-14	HA - 5	Total/NA	Solid	5035	
890-8162-15	HA - 6	Total/NA	Solid	5035	
890-8162-16	HA - 6	Total/NA	Solid	5035	
890-8162-17	HA - 6	Total/NA	Solid	5035	
890-8162-18	HA - 7	Total/NA	Solid	5035	
890-8162-19	HA - 7	Total/NA	Solid	5035	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

GC VOA (Continued)

Prep Batch: 110321 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-20	HA - 8	Total/NA	Solid	5035	
MB 880-110321/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110321/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110321/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8162-1 MS	HA - 1	Total/NA	Solid	5035	
890-8162-1 MSD	HA - 1	Total/NA	Solid	5035	

Analysis Batch: 110367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-27	HA - 10	Total/NA	Solid	8021B	110313
890-8162-28	HA - 11	Total/NA	Solid	8021B	110313
890-8162-29	HA - 11	Total/NA	Solid	8021B	110313
MB 880-110313/5-A	Method Blank	Total/NA	Solid	8021B	110313
LCS 880-110313/1-A	Lab Control Sample	Total/NA	Solid	8021B	110313
LCSD 880-110313/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110313

Analysis Batch: 110409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-30	HA - 11	Total/NA	Solid	8021B	110419
890-8162-31	HA - 12	Total/NA	Solid	8021B	110419
MB 880-110419/5-A	Method Blank	Total/NA	Solid	8021B	110419
LCS 880-110419/1-A	Lab Control Sample	Total/NA	Solid	8021B	110419
LCSD 880-110419/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110419

Prep Batch: 110419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-30	HA - 11	Total/NA	Solid	5035	
890-8162-31	HA - 12	Total/NA	Solid	5035	
MB 880-110419/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110419/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110419/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 110446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-1	HA - 1	Total/NA	Solid	Total BTEX	
890-8162-2	HA - 1	Total/NA	Solid	Total BTEX	
890-8162-3	HA - 1	Total/NA	Solid	Total BTEX	
890-8162-4	HA - 2	Total/NA	Solid	Total BTEX	
890-8162-5	HA - 2	Total/NA	Solid	Total BTEX	
890-8162-6	HA - 2	Total/NA	Solid	Total BTEX	
890-8162-7	HA - 3	Total/NA	Solid	Total BTEX	
890-8162-8	HA - 3	Total/NA	Solid	Total BTEX	
890-8162-9	HA - 3	Total/NA	Solid	Total BTEX	
890-8162-10	HA - 4	Total/NA	Solid	Total BTEX	
890-8162-11	HA - 4	Total/NA	Solid	Total BTEX	
890-8162-12	HA - 4	Total/NA	Solid	Total BTEX	
890-8162-13	HA - 5	Total/NA	Solid	Total BTEX	
890-8162-14	HA - 5	Total/NA	Solid	Total BTEX	
890-8162-15	HA - 6	Total/NA	Solid	Total BTEX	
890-8162-16	HA - 6	Total/NA	Solid	Total BTEX	
890-8162-17	HA - 6	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

GC VOA (Continued)

Analysis Batch: 110446 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-18	HA - 7	Total/NA	Solid	Total BTEX	
890-8162-19	HA - 7	Total/NA	Solid	Total BTEX	
890-8162-20	HA - 8	Total/NA	Solid	Total BTEX	
890-8162-21	HA - 8	Total/NA	Solid	Total BTEX	
890-8162-22	HA - 9	Total/NA	Solid	Total BTEX	
890-8162-23	HA - 9	Total/NA	Solid	Total BTEX	
890-8162-24	HA - 9	Total/NA	Solid	Total BTEX	
890-8162-25	HA - 10	Total/NA	Solid	Total BTEX	
890-8162-26	HA - 10	Total/NA	Solid	Total BTEX	
890-8162-27	HA - 10	Total/NA	Solid	Total BTEX	
890-8162-28	HA - 11	Total/NA	Solid	Total BTEX	
890-8162-29	HA - 11	Total/NA	Solid	Total BTEX	
890-8162-30	HA - 11	Total/NA	Solid	Total BTEX	
890-8162-31	HA - 12	Total/NA	Solid	Total BTEX	
890-8162-32	HA - 12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 110250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-1	HA - 1	Total/NA	Solid	8015NM Prep	
890-8162-2	HA - 1	Total/NA	Solid	8015NM Prep	
890-8162-3	HA - 1	Total/NA	Solid	8015NM Prep	
890-8162-4	HA - 2	Total/NA	Solid	8015NM Prep	
890-8162-5	HA - 2	Total/NA	Solid	8015NM Prep	
890-8162-6	HA - 2	Total/NA	Solid	8015NM Prep	
890-8162-7	HA - 3	Total/NA	Solid	8015NM Prep	
890-8162-8	HA - 3	Total/NA	Solid	8015NM Prep	
890-8162-9	HA - 3	Total/NA	Solid	8015NM Prep	
890-8162-10	HA - 4	Total/NA	Solid	8015NM Prep	
890-8162-11	HA - 4	Total/NA	Solid	8015NM Prep	
890-8162-12	HA - 4	Total/NA	Solid	8015NM Prep	
890-8162-13	HA - 5	Total/NA	Solid	8015NM Prep	
890-8162-14	HA - 5	Total/NA	Solid	8015NM Prep	
890-8162-15	HA - 6	Total/NA	Solid	8015NM Prep	
890-8162-16	HA - 6	Total/NA	Solid	8015NM Prep	
890-8162-17	HA - 6	Total/NA	Solid	8015NM Prep	
890-8162-18	HA - 7	Total/NA	Solid	8015NM Prep	
890-8162-19	HA - 7	Total/NA	Solid	8015NM Prep	
890-8162-20	HA - 8	Total/NA	Solid	8015NM Prep	
MB 880-110250/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110250/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110250/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8162-1 MS	HA - 1	Total/NA	Solid	8015NM Prep	
890-8162-1 MSD	HA - 1	Total/NA	Solid	8015NM Prep	

Prep Batch: 110251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-21	HA - 8	Total/NA	Solid	8015NM Prep	
890-8162-22	HA - 9	Total/NA	Solid	8015NM Prep	
890-8162-23	HA - 9	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 110251 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-24	HA - 9	Total/NA	Solid	8015NM Prep	
890-8162-25	HA - 10	Total/NA	Solid	8015NM Prep	
890-8162-26	HA - 10	Total/NA	Solid	8015NM Prep	
890-8162-27	HA - 10	Total/NA	Solid	8015NM Prep	
890-8162-28	HA - 11	Total/NA	Solid	8015NM Prep	
890-8162-29	HA - 11	Total/NA	Solid	8015NM Prep	
890-8162-30	HA - 11	Total/NA	Solid	8015NM Prep	
MB 880-110251/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110251/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8162-21 MS	HA - 8	Total/NA	Solid	8015NM Prep	
890-8162-21 MSD	HA - 8	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-1	HA - 1	Total/NA	Solid	8015B NM	110250
890-8162-2	HA - 1	Total/NA	Solid	8015B NM	110250
890-8162-3	HA - 1	Total/NA	Solid	8015B NM	110250
890-8162-4	HA - 2	Total/NA	Solid	8015B NM	110250
890-8162-5	HA - 2	Total/NA	Solid	8015B NM	110250
890-8162-6	HA - 2	Total/NA	Solid	8015B NM	110250
890-8162-7	HA - 3	Total/NA	Solid	8015B NM	110250
890-8162-8	HA - 3	Total/NA	Solid	8015B NM	110250
890-8162-9	HA - 3	Total/NA	Solid	8015B NM	110250
890-8162-10	HA - 4	Total/NA	Solid	8015B NM	110250
890-8162-11	HA - 4	Total/NA	Solid	8015B NM	110250
890-8162-12	HA - 4	Total/NA	Solid	8015B NM	110250
890-8162-13	HA - 5	Total/NA	Solid	8015B NM	110250
890-8162-14	HA - 5	Total/NA	Solid	8015B NM	110250
890-8162-15	HA - 6	Total/NA	Solid	8015B NM	110250
890-8162-16	HA - 6	Total/NA	Solid	8015B NM	110250
890-8162-17	HA - 6	Total/NA	Solid	8015B NM	110250
890-8162-18	HA - 7	Total/NA	Solid	8015B NM	110250
890-8162-19	HA - 7	Total/NA	Solid	8015B NM	110250
890-8162-20	HA - 8	Total/NA	Solid	8015B NM	110250
890-8162-21	HA - 8	Total/NA	Solid	8015B NM	110251
890-8162-22	HA - 9	Total/NA	Solid	8015B NM	110251
890-8162-23	HA - 9	Total/NA	Solid	8015B NM	110251
890-8162-24	HA - 9	Total/NA	Solid	8015B NM	110251
890-8162-25	HA - 10	Total/NA	Solid	8015B NM	110251
890-8162-26	HA - 10	Total/NA	Solid	8015B NM	110251
890-8162-27	HA - 10	Total/NA	Solid	8015B NM	110251
890-8162-28	HA - 11	Total/NA	Solid	8015B NM	110251
890-8162-29	HA - 11	Total/NA	Solid	8015B NM	110251
890-8162-30	HA - 11	Total/NA	Solid	8015B NM	110251
MB 880-110250/1-A	Method Blank	Total/NA	Solid	8015B NM	110250
MB 880-110251/1-A	Method Blank	Total/NA	Solid	8015B NM	110251
LCS 880-110250/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110250
LCS 880-110251/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110251
LCSD 880-110250/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110250
LCSD 880-110251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110251

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 110397 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-1 MS	HA - 1	Total/NA	Solid	8015B NM	110250
890-8162-1 MSD	HA - 1	Total/NA	Solid	8015B NM	110250
890-8162-21 MS	HA - 8	Total/NA	Solid	8015B NM	110251
890-8162-21 MSD	HA - 8	Total/NA	Solid	8015B NM	110251

Analysis Batch: 110440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-31	HA - 12	Total/NA	Solid	8015B NM	110463
890-8162-32	HA - 12	Total/NA	Solid	8015B NM	110463
MB 880-110463/1-A	Method Blank	Total/NA	Solid	8015B NM	110463
LCS 880-110463/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110463
LCSD 880-110463/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110463
890-8162-31 MS	HA - 12	Total/NA	Solid	8015B NM	110463
890-8162-31 MSD	HA - 12	Total/NA	Solid	8015B NM	110463

Analysis Batch: 110461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-1	HA - 1	Total/NA	Solid	8015 NM	
890-8162-2	HA - 1	Total/NA	Solid	8015 NM	
890-8162-3	HA - 1	Total/NA	Solid	8015 NM	
890-8162-4	HA - 2	Total/NA	Solid	8015 NM	
890-8162-5	HA - 2	Total/NA	Solid	8015 NM	
890-8162-6	HA - 2	Total/NA	Solid	8015 NM	
890-8162-7	HA - 3	Total/NA	Solid	8015 NM	
890-8162-8	HA - 3	Total/NA	Solid	8015 NM	
890-8162-9	HA - 3	Total/NA	Solid	8015 NM	
890-8162-10	HA - 4	Total/NA	Solid	8015 NM	
890-8162-11	HA - 4	Total/NA	Solid	8015 NM	
890-8162-12	HA - 4	Total/NA	Solid	8015 NM	
890-8162-13	HA - 5	Total/NA	Solid	8015 NM	
890-8162-14	HA - 5	Total/NA	Solid	8015 NM	
890-8162-15	HA - 6	Total/NA	Solid	8015 NM	
890-8162-16	HA - 6	Total/NA	Solid	8015 NM	
890-8162-17	HA - 6	Total/NA	Solid	8015 NM	
890-8162-18	HA - 7	Total/NA	Solid	8015 NM	
890-8162-19	HA - 7	Total/NA	Solid	8015 NM	
890-8162-20	HA - 8	Total/NA	Solid	8015 NM	
890-8162-21	HA - 8	Total/NA	Solid	8015 NM	
890-8162-22	HA - 9	Total/NA	Solid	8015 NM	
890-8162-23	HA - 9	Total/NA	Solid	8015 NM	
890-8162-24	HA - 9	Total/NA	Solid	8015 NM	
890-8162-25	HA - 10	Total/NA	Solid	8015 NM	
890-8162-26	HA - 10	Total/NA	Solid	8015 NM	
890-8162-27	HA - 10	Total/NA	Solid	8015 NM	
890-8162-28	HA - 11	Total/NA	Solid	8015 NM	
890-8162-29	HA - 11	Total/NA	Solid	8015 NM	
890-8162-30	HA - 11	Total/NA	Solid	8015 NM	
890-8162-31	HA - 12	Total/NA	Solid	8015 NM	
890-8162-32	HA - 12	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

GC Semi VOA

Prep Batch: 110463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-31	HA - 12	Total/NA	Solid	8015NM Prep	
890-8162-32	HA - 12	Total/NA	Solid	8015NM Prep	
MB 880-110463/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110463/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110463/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8162-31 MS	HA - 12	Total/NA	Solid	8015NM Prep	
890-8162-31 MSD	HA - 12	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 110282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-1	HA - 1	Soluble	Solid	DI Leach	
890-8162-2	HA - 1	Soluble	Solid	DI Leach	
890-8162-3	HA - 1	Soluble	Solid	DI Leach	
890-8162-4	HA - 2	Soluble	Solid	DI Leach	
890-8162-5	HA - 2	Soluble	Solid	DI Leach	
890-8162-6	HA - 2	Soluble	Solid	DI Leach	
890-8162-7	HA - 3	Soluble	Solid	DI Leach	
890-8162-8	HA - 3	Soluble	Solid	DI Leach	
890-8162-9	HA - 3	Soluble	Solid	DI Leach	
MB 880-110282/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110282/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110282/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 110285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-10	HA - 4	Soluble	Solid	DI Leach	
890-8162-11	HA - 4	Soluble	Solid	DI Leach	
890-8162-12	HA - 4	Soluble	Solid	DI Leach	
890-8162-13	HA - 5	Soluble	Solid	DI Leach	
890-8162-14	HA - 5	Soluble	Solid	DI Leach	
890-8162-15	HA - 6	Soluble	Solid	DI Leach	
890-8162-16	HA - 6	Soluble	Solid	DI Leach	
890-8162-17	HA - 6	Soluble	Solid	DI Leach	
890-8162-18	HA - 7	Soluble	Solid	DI Leach	
890-8162-19	HA - 7	Soluble	Solid	DI Leach	
890-8162-20	HA - 8	Soluble	Solid	DI Leach	
890-8162-21	HA - 8	Soluble	Solid	DI Leach	
890-8162-22	HA - 9	Soluble	Solid	DI Leach	
890-8162-23	HA - 9	Soluble	Solid	DI Leach	
890-8162-24	HA - 9	Soluble	Solid	DI Leach	
890-8162-25	HA - 10	Soluble	Solid	DI Leach	
890-8162-26	HA - 10	Soluble	Solid	DI Leach	
890-8162-27	HA - 10	Soluble	Solid	DI Leach	
890-8162-28	HA - 11	Soluble	Solid	DI Leach	
890-8162-29	HA - 11	Soluble	Solid	DI Leach	
MB 880-110285/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110285/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110285/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8162-10 MS	HA - 4	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 110285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-10 MSD	HA - 4	Soluble	Solid	DI Leach	
890-8162-20 MS	HA - 8	Soluble	Solid	DI Leach	
890-8162-20 MSD	HA - 8	Soluble	Solid	DI Leach	

Leach Batch: 110288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-30	HA - 11	Soluble	Solid	DI Leach	
890-8162-31	HA - 12	Soluble	Solid	DI Leach	
890-8162-32	HA - 12	Soluble	Solid	DI Leach	
MB 880-110288/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110288/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110288/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8162-30 MS	HA - 11	Soluble	Solid	DI Leach	
890-8162-30 MSD	HA - 11	Soluble	Solid	DI Leach	

Analysis Batch: 110290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-10	HA - 4	Soluble	Solid	300.0	110285
890-8162-11	HA - 4	Soluble	Solid	300.0	110285
890-8162-12	HA - 4	Soluble	Solid	300.0	110285
890-8162-13	HA - 5	Soluble	Solid	300.0	110285
890-8162-14	HA - 5	Soluble	Solid	300.0	110285
890-8162-15	HA - 6	Soluble	Solid	300.0	110285
890-8162-16	HA - 6	Soluble	Solid	300.0	110285
890-8162-17	HA - 6	Soluble	Solid	300.0	110285
890-8162-18	HA - 7	Soluble	Solid	300.0	110285
890-8162-19	HA - 7	Soluble	Solid	300.0	110285
890-8162-20	HA - 8	Soluble	Solid	300.0	110285
890-8162-21	HA - 8	Soluble	Solid	300.0	110285
890-8162-22	HA - 9	Soluble	Solid	300.0	110285
890-8162-23	HA - 9	Soluble	Solid	300.0	110285
890-8162-24	HA - 9	Soluble	Solid	300.0	110285
890-8162-25	HA - 10	Soluble	Solid	300.0	110285
890-8162-26	HA - 10	Soluble	Solid	300.0	110285
890-8162-27	HA - 10	Soluble	Solid	300.0	110285
890-8162-28	HA - 11	Soluble	Solid	300.0	110285
890-8162-29	HA - 11	Soluble	Solid	300.0	110285
MB 880-110285/1-A	Method Blank	Soluble	Solid	300.0	110285
LCS 880-110285/2-A	Lab Control Sample	Soluble	Solid	300.0	110285
LCSD 880-110285/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110285
890-8162-10 MS	HA - 4	Soluble	Solid	300.0	110285
890-8162-10 MSD	HA - 4	Soluble	Solid	300.0	110285
890-8162-20 MS	HA - 8	Soluble	Solid	300.0	110285
890-8162-20 MSD	HA - 8	Soluble	Solid	300.0	110285

Analysis Batch: 110292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-30	HA - 11	Soluble	Solid	300.0	110288
890-8162-31	HA - 12	Soluble	Solid	300.0	110288
890-8162-32	HA - 12	Soluble	Solid	300.0	110288
MB 880-110288/1-A	Method Blank	Soluble	Solid	300.0	110288

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 110292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-110288/2-A	Lab Control Sample	Soluble	Solid	300.0	110288
LCSD 880-110288/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110288
890-8162-30 MS	HA - 11	Soluble	Solid	300.0	110288
890-8162-30 MSD	HA - 11	Soluble	Solid	300.0	110288

Analysis Batch: 110358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8162-1	HA - 1	Soluble	Solid	300.0	110282
890-8162-2	HA - 1	Soluble	Solid	300.0	110282
890-8162-3	HA - 1	Soluble	Solid	300.0	110282
890-8162-4	HA - 2	Soluble	Solid	300.0	110282
890-8162-5	HA - 2	Soluble	Solid	300.0	110282
890-8162-6	HA - 2	Soluble	Solid	300.0	110282
890-8162-7	HA - 3	Soluble	Solid	300.0	110282
890-8162-8	HA - 3	Soluble	Solid	300.0	110282
890-8162-9	HA - 3	Soluble	Solid	300.0	110282
MB 880-110282/1-A	Method Blank	Soluble	Solid	300.0	110282
LCS 880-110282/2-A	Lab Control Sample	Soluble	Solid	300.0	110282
LCSD 880-110282/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110282

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 1

Lab Sample ID: 890-8162-1

Date Collected: 05/13/25 12:05

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/16/25 22:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/16/25 22:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 16:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 16:40	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110282	05/16/25 08:19	SA	EET MID
Soluble	Analysis	300.0		10			110358	05/16/25 21:16	SMC	EET MID

Client Sample ID: HA - 1

Lab Sample ID: 890-8162-2

Date Collected: 05/13/25 12:10

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/16/25 22:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/16/25 22:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 17:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 17:24	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110282	05/16/25 08:19	SA	EET MID
Soluble	Analysis	300.0		20			110358	05/16/25 21:21	SMC	EET MID

Client Sample ID: HA - 1

Lab Sample ID: 890-8162-3

Date Collected: 05/13/25 12:15

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/16/25 23:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/16/25 23:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 17:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 17:41	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110282	05/16/25 08:19	SA	EET MID
Soluble	Analysis	300.0		10			110358	05/16/25 21:37	SMC	EET MID

Client Sample ID: HA - 2

Lab Sample ID: 890-8162-4

Date Collected: 05/13/25 12:20

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/16/25 23:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/16/25 23:34	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 2

Lab Sample ID: 890-8162-4

Date Collected: 05/13/25 12:20

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110461	05/17/25 17:56	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 17:56	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110282	05/16/25 08:19	SA	EET MID
Soluble	Analysis	300.0		10			110358	05/16/25 21:42	SMC	EET MID

Client Sample ID: HA - 2

Lab Sample ID: 890-8162-5

Date Collected: 05/13/25 12:25

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/16/25 23:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/16/25 23:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 18:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 18:11	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110282	05/16/25 08:19	SA	EET MID
Soluble	Analysis	300.0		10			110358	05/16/25 21:47	SMC	EET MID

Client Sample ID: HA - 2

Lab Sample ID: 890-8162-6

Date Collected: 05/13/25 12:30

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/17/25 00:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 00:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 18:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 18:26	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110282	05/16/25 08:19	SA	EET MID
Soluble	Analysis	300.0		1			110358	05/16/25 21:52	SMC	EET MID

Client Sample ID: HA - 3

Lab Sample ID: 890-8162-7

Date Collected: 05/13/25 12:35

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/17/25 00:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 00:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 18:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 18:41	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 3

Lab Sample ID: 890-8162-7

Date Collected: 05/13/25 12:35

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	110282	05/16/25 08:19	SA	EET MID
Soluble	Analysis	300.0		10			110358	05/16/25 21:58	SMC	EET MID

Client Sample ID: HA - 3

Lab Sample ID: 890-8162-8

Date Collected: 05/13/25 12:40

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/17/25 00:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 00:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 18:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 18:56	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110282	05/16/25 08:19	SA	EET MID
Soluble	Analysis	300.0		5			110358	05/16/25 22:03	SMC	EET MID

Client Sample ID: HA - 3

Lab Sample ID: 890-8162-9

Date Collected: 05/13/25 12:45

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/17/25 01:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 01:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 19:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 19:12	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110282	05/16/25 08:19	SA	EET MID
Soluble	Analysis	300.0		10			110358	05/16/25 22:08	SMC	EET MID

Client Sample ID: HA - 4

Lab Sample ID: 890-8162-10

Date Collected: 05/13/25 12:50

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/17/25 01:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 01:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 19:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 19:27	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		10			110290	05/16/25 12:50	SMC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 4

Lab Sample ID: 890-8162-11

Date Collected: 05/13/25 12:55

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/17/25 03:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 03:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 19:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 19:57	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		5			110290	05/16/25 13:10	SMC	EET MID

Client Sample ID: HA - 4

Lab Sample ID: 890-8162-12

Date Collected: 05/13/25 13:00

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/17/25 03:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 03:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 20:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 20:12	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		1			110290	05/16/25 13:17	SMC	EET MID

Client Sample ID: HA - 5

Lab Sample ID: 890-8162-13

Date Collected: 05/13/25 13:05

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/17/25 03:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 03:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 20:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 20:28	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		10			110290	05/16/25 13:24	SMC	EET MID

Client Sample ID: HA - 5

Lab Sample ID: 890-8162-14

Date Collected: 05/13/25 13:10

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/17/25 04:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 04:03	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 5

Lab Sample ID: 890-8162-14

Date Collected: 05/13/25 13:10

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110461	05/17/25 20:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 20:43	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		5			110290	05/16/25 13:31	SMC	EET MID

Client Sample ID: HA - 6

Lab Sample ID: 890-8162-15

Date Collected: 05/13/25 13:15

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/17/25 04:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 04:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 20:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 20:58	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		5			110290	05/16/25 13:51	SMC	EET MID

Client Sample ID: HA - 6

Lab Sample ID: 890-8162-16

Date Collected: 05/13/25 13:20

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/17/25 04:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 04:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 21:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 21:13	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		5			110290	05/16/25 13:58	SMC	EET MID

Client Sample ID: HA - 6

Lab Sample ID: 890-8162-17

Date Collected: 05/13/25 13:25

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/17/25 05:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 05:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 21:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 21:28	TKC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 6**Lab Sample ID: 890-8162-17****Date Collected: 05/13/25 13:25****Matrix: Solid****Date Received: 05/15/25 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		5			110290	05/16/25 14:05	SMC	EET MID

Client Sample ID: HA - 7**Lab Sample ID: 890-8162-18****Date Collected: 05/13/25 13:30****Matrix: Solid****Date Received: 05/15/25 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/17/25 05:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 05:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 21:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 21:43	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		1			110290	05/16/25 14:12	SMC	EET MID

Client Sample ID: HA - 7**Lab Sample ID: 890-8162-19****Date Collected: 05/13/25 13:35****Matrix: Solid****Date Received: 05/15/25 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/17/25 05:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 05:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 21:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 21:58	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		1			110290	05/16/25 14:18	SMC	EET MID

Client Sample ID: HA - 8**Lab Sample ID: 890-8162-20****Date Collected: 05/14/25 12:00****Matrix: Solid****Date Received: 05/15/25 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	110321	05/16/25 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110277	05/17/25 06:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 06:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/17/25 22:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	110250	05/15/25 14:40	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/17/25 22:15	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		1			110290	05/16/25 14:25	SMC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 8

Lab Sample ID: 890-8162-21

Date Collected: 05/14/25 12:05

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110312	05/16/25 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110280	05/17/25 05:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 05:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/18/25 00:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	110251	05/15/25 14:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/18/25 00:14	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		1			110290	05/16/25 14:46	SMC	EET MID

Client Sample ID: HA - 9

Lab Sample ID: 890-8162-22

Date Collected: 05/14/25 12:10

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110312	05/16/25 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110280	05/17/25 05:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 05:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/18/25 01:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	110251	05/15/25 14:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/18/25 01:00	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		1			110290	05/16/25 14:52	SMC	EET MID

Client Sample ID: HA - 9

Lab Sample ID: 890-8162-23

Date Collected: 05/14/25 12:15

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	110312	05/16/25 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110280	05/17/25 06:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 06:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/18/25 01:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110251	05/15/25 14:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/18/25 01:15	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		1			110290	05/16/25 15:13	SMC	EET MID

Client Sample ID: HA - 9

Lab Sample ID: 890-8162-24

Date Collected: 05/14/25 12:20

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110312	05/16/25 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110280	05/17/25 06:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 06:38	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 9

Lab Sample ID: 890-8162-24

Date Collected: 05/14/25 12:20

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110461	05/18/25 01:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110251	05/15/25 14:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/18/25 01:31	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		1			110290	05/16/25 15:20	SMC	EET MID

Client Sample ID: HA - 10

Lab Sample ID: 890-8162-25

Date Collected: 05/14/25 12:25

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110312	05/16/25 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110280	05/17/25 06:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 06:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/18/25 01:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110251	05/15/25 14:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/18/25 01:46	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		5			110290	05/16/25 15:26	SMC	EET MID

Client Sample ID: HA - 10

Lab Sample ID: 890-8162-26

Date Collected: 05/14/25 12:30

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110312	05/16/25 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110280	05/17/25 07:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 07:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/18/25 02:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	110251	05/15/25 14:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/18/25 02:03	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		1			110290	05/16/25 15:33	SMC	EET MID

Client Sample ID: HA - 10

Lab Sample ID: 890-8162-27

Date Collected: 05/14/25 12:35

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110313	05/16/25 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110367	05/17/25 02:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 02:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/18/25 02:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110251	05/15/25 14:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/18/25 02:18	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 10**Lab Sample ID: 890-8162-27****Date Collected: 05/14/25 12:35****Matrix: Solid****Date Received: 05/15/25 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		1			110290	05/16/25 15:40	SMC	EET MID

Client Sample ID: HA - 11**Lab Sample ID: 890-8162-28****Date Collected: 05/14/25 12:40****Matrix: Solid****Date Received: 05/15/25 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110313	05/16/25 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110367	05/17/25 02:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 02:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/18/25 02:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110251	05/15/25 14:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/18/25 02:34	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		1			110290	05/16/25 15:47	SMC	EET MID

Client Sample ID: HA - 11**Lab Sample ID: 890-8162-29****Date Collected: 05/14/25 12:45****Matrix: Solid****Date Received: 05/15/25 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110313	05/16/25 15:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110367	05/17/25 02:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/17/25 02:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/18/25 02:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	110251	05/15/25 14:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/18/25 02:49	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	110285	05/16/25 08:28	SA	EET MID
Soluble	Analysis	300.0		1			110290	05/16/25 15:54	SMC	EET MID

Client Sample ID: HA - 11**Lab Sample ID: 890-8162-30****Date Collected: 05/14/25 12:50****Matrix: Solid****Date Received: 05/15/25 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110419	05/19/25 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110409	05/19/25 13:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/19/25 13:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/18/25 03:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110251	05/15/25 14:43	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110397	05/18/25 03:05	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110288	05/16/25 08:52	SA	EET MID
Soluble	Analysis	300.0		1			110292	05/16/25 10:36	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Client Sample ID: HA - 12

Lab Sample ID: 890-8162-31

Date Collected: 05/14/25 12:55

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110419	05/19/25 09:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110409	05/19/25 13:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/19/25 13:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/19/25 20:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110463	05/19/25 15:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110440	05/19/25 20:37	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110288	05/16/25 08:52	SA	EET MID
Soluble	Analysis	300.0		1			110292	05/16/25 10:52	SMC	EET MID

Client Sample ID: HA - 12

Lab Sample ID: 890-8162-32

Date Collected: 05/14/25 13:00

Matrix: Solid

Date Received: 05/15/25 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110287	05/16/25 08:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110276	05/16/25 17:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110446	05/16/25 17:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			110461	05/19/25 21:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	110463	05/19/25 15:44	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110440	05/19/25 21:22	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110288	05/16/25 08:52	SA	EET MID
Soluble	Analysis	300.0		1			110292	05/16/25 10:57	SMC	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: Right Meow 31 CTB 7

Job ID: 890-8162-1
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	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8162-1
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: Right Meow 31 CTB 7

Job ID: 890-8162-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8162-1	HA - 1	Solid	05/13/25 12:05	05/15/25 08:20	0.5
890-8162-2	HA - 1	Solid	05/13/25 12:10	05/15/25 08:20	1
890-8162-3	HA - 1	Solid	05/13/25 12:15	05/15/25 08:20	2
890-8162-4	HA - 2	Solid	05/13/25 12:20	05/15/25 08:20	0.5
890-8162-5	HA - 2	Solid	05/13/25 12:25	05/15/25 08:20	1
890-8162-6	HA - 2	Solid	05/13/25 12:30	05/15/25 08:20	2
890-8162-7	HA - 3	Solid	05/13/25 12:35	05/15/25 08:20	0.5
890-8162-8	HA - 3	Solid	05/13/25 12:40	05/15/25 08:20	1
890-8162-9	HA - 3	Solid	05/13/25 12:45	05/15/25 08:20	2
890-8162-10	HA - 4	Solid	05/13/25 12:50	05/15/25 08:20	0.5
890-8162-11	HA - 4	Solid	05/13/25 12:55	05/15/25 08:20	1
890-8162-12	HA - 4	Solid	05/13/25 13:00	05/15/25 08:20	2
890-8162-13	HA - 5	Solid	05/13/25 13:05	05/15/25 08:20	0.5
890-8162-14	HA - 5	Solid	05/13/25 13:10	05/15/25 08:20	1
890-8162-15	HA - 6	Solid	05/13/25 13:15	05/15/25 08:20	0.5
890-8162-16	HA - 6	Solid	05/13/25 13:20	05/15/25 08:20	1
890-8162-17	HA - 6	Solid	05/13/25 13:25	05/15/25 08:20	2
890-8162-18	HA - 7	Solid	05/13/25 13:30	05/15/25 08:20	0.5
890-8162-19	HA - 7	Solid	05/13/25 13:35	05/15/25 08:20	1
890-8162-20	HA - 8	Solid	05/14/25 12:00	05/15/25 08:20	0.5
890-8162-21	HA - 8	Solid	05/14/25 12:05	05/15/25 08:20	1
890-8162-22	HA - 9	Solid	05/14/25 12:10	05/15/25 08:20	0.5
890-8162-23	HA - 9	Solid	05/14/25 12:15	05/15/25 08:20	1
890-8162-24	HA - 9	Solid	05/14/25 12:20	05/15/25 08:20	2
890-8162-25	HA - 10	Solid	05/14/25 12:25	05/15/25 08:20	0.5
890-8162-26	HA - 10	Solid	05/14/25 12:30	05/15/25 08:20	1
890-8162-27	HA - 10	Solid	05/14/25 12:35	05/15/25 08:20	2
890-8162-28	HA - 11	Solid	05/14/25 12:40	05/15/25 08:20	0.5
890-8162-29	HA - 11	Solid	05/14/25 12:45	05/15/25 08:20	1
890-8162-30	HA - 11	Solid	05/14/25 12:50	05/15/25 08:20	2
890-8162-31	HA - 12	Solid	05/14/25 12:55	05/15/25 08:20	0.5
890-8162-32	HA - 12	Solid	05/14/25 13:00	05/15/25 08:20	1



Environment Testing

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El Paso, TX (915) 585-3443 - Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 - Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 4

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88520	City, State ZIP:	
Phone:	832-541-7719	Email:	gmorano@earthsys.net

Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____	
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Project Name:	Right Meow 31 CTB 7	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:	343				
Project Location:	Lee County, NM	Due Date:	Routine TAT		
Sampler's Name:	Santiago Giron	TAT starts the day received by the lab, if received by 4:30pm			
CCWO #:	21574502				
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Wet Ice: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Thermometer ID:	Tance 7		
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Correction Factor:	-0.2		
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Temperature Reading:	-6.2		
Total Containers:		Corrected Temperature:	-6.0		



890-8162 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	Parameters									
							TPH - NM	Chloride - NM	BTEX - NM	Hold	24 Hr Rush					
HA-1	S	5.13.25	12:05	0.5	Grab/	1	X	X	X							
HA-1	S	5.13.25	12:10	1	Grab/	1	X	X	X							
HA-1	S	5.13.25	12:15	2	Grab/	1	X	X	X							
HA-2	S	5.13.25	12:20	0.5	Grab/	1	X	X	X							
HA-2	S	5.13.25	12:25	1	Grab/	1	X	X	X							
HA-2	S	5.13.25	12:30	2	Grab/	1	X	X	X							
HA-3	S	5.13.25	12:35	0.5	Grab/	1	X	X	X							
HA-3	S	5.13.25	12:40	1	Grab/	1	X	X	X							
HA-3	S	5.13.25	12:45	2	Grab/	1	X	X	X							

Total 200.7 / 6010 200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed

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. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	5/15 8:24			



Environment Testing
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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

Chain of Custody

Work Order No: _____

www.xenco.com Page 2 of 4

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmorano@earthsys.net

Program: <input checked="" type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

Project Name:	Right Meow 31 CTB 7	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	343	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush														None: NO	DI Water: H ₂ O	
Project Location:	Lea County, NM	Due Date:	Routine-TAT													Good: Cool	MeOH: Me	
Sampler's Name:	Santiago Giron	TAT starts the day received by the lab, if received by 4:30pm														HCL: HC	HNO ₃ : HN	
CCWO #:	21574502															H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H ₃ PO ₄ : HP	
Samples Received In tact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	-0.2														NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:															Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	-6.2														Zn Acetate+NaOH: Zn	
Total Containers:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:	-6.0														NaOH+Ascorbic Acid: SAPC	

Sample Identification										Sample Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13BPPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Hg: 1631 / 245.1 / 7470 / 7471

Circle Method(s) and Metal(s) to be analyzed

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Ciforia</i>	<i>Bauer</i>	5/15 8:20			

Revised Date: 08/25/2020 Rev. 2020.2



Environment Testing
Xenco

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) 986-3199

Work Order No: _____

www.xenco.com Page 4 of 4

Chain of Custody

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gimoreno@earthsys.net

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____	

Project Name:	Right Meow 31 CTB 7	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST												Preservative Codes				
Project Number:	343																	None: NO	DI Water: H ₂ O			
Project Location:	Lea County, NM	Due Date:																Cool: Cool	MeOH: Me			
Sampler's Name:	Santiago Giron	TAT starts the day received by the lab, if received by 4:30pm																HCL: HC	HNO ₃ : HN			
CCWVO #:	21574502																	H ₂ SO ₄ : H ₂	NaOH: Na			
SAMPLE RECEIPT	Temp Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Parameters													H ₃ PO ₄ : HP				
	Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:															NaHSO ₄ : NABIS				
	Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:															Na ₂ S ₂ O ₃ : NaSO ₃				
	Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature Reading:															Zn Acetate+NaOH: Zn				
Total Containers:		Corrected Temperature:																NaOH+Ascorbic Acid: SAPC				
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush											Sample Comments
	HA-11	S	5.14.25	12.40	0.5	Grab/1	X	X	X						Incident Number							
	HA-11	S	5.14.25	12.45	1	Grab/1	X	X	X						nAPP2511547307							
	HA-11	S	5.14.25	12.50	2	Grab/1	X	X	X													
	HA-12	S	5.14.25	12.55	0.5	Grab/1	X	X	X													
HA-12	S	5.14.25	13.00	1	Grab/1	X	X	X														

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed

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. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>C. Garcia</i>	<i>B. Smith</i>	5/15/22			

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)						Sample:		Lab PM:		Carrier Tracking No(s):		COC No:																					
Client Contact:						N/A		Teel, Brianna		N/A		890-5136-1																					
Shipping/Receiving						Phone:		E-Mail:		State of Origin:		Page:																					
Company:						Eurofins Environment Testing South Cent		Brianna.Teel@eurofins.com		Texas		Page 1 of 4																					
Address:						Due Date Requested:		Accreditations Required (See note):				Job #:																					
City:						5/21/2025		NELAP - Texas				890-8162-1																					
Midland						TAT Requested (days):		Analysis Requested				Preservation Codes:																					
State, Zip:						N/A																											
TX, 79701																																	
Phone:						PO #:																											
432-704-5440(Tel)						N/A																											
Email:						WO #:																											
N/A						N/A																											
Project Name:						Project #:																											
Right Meow 31 CTB 7						88001228																											
Site:						SSOW#:																											
N/A						N/A																											
Other:																																	
N/A																																	
Sample Identification - Client ID (Lab ID)						Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=oils/sludg, BT=tissue, A=air)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total_BTEx_GCV		8021B/5035FP_Calc BTEx		300_ORGFM_28D/DI_LEACH Chloride		8015MOD_Calc		8015MOD_NM/8015NM_S_Prep 8015 NM		Total Number of containers		Special Instructions/Note:			
HA - 1 (890-8162-1)						5/13/25		Central		12.05		G		Solid		X		X		X		X		X		X		X		1			
HA - 1 (890-8162-2)						5/13/25		Central		12.10		G		Solid		X		X		X		X		X		X		X		1			
HA - 1 (890-8162-3)						5/13/25		Central		12.15		G		Solid		X		X		X		X		X		X		X		1			
HA - 2 (890-8162-4)						5/13/25		Central		12.20		G		Solid		X		X		X		X		X		X		X		1			
HA - 2 (890-8162-5)						5/13/25		Central		12.25		G		Solid		X		X		X		X		X		X		X		1			
HA - 2 (890-8162-6)						5/13/25		Central		12.30		G		Solid		X		X		X		X		X		X		X		1			
HA - 3 (890-8162-7)						5/13/25		Central		12.35		G		Solid		X		X		X		X		X		X		X		1			
HA - 3 (890-8162-8)						5/13/25		Central		12.40		G		Solid		X		X		X		X		X		X		X		1			
HA - 3 (890-8162-9)						5/13/25		Central		12.45		G		Solid		X		X		X		X		X		X		X		1			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.																																	
Possible Hazard Identification																																	
Unconfirmed																																	
Deliverable Requested: I, II, III, IV, Other (Specify)													Primary Deliverable Rank: 2																				
Empty Kit Requisitioned by:													Date:																				
Requisitioned by:													Date/Time:																				
Requisitioned by:													Date/Time:																				
Requisitioned by:													Date/Time:																				
Custody Seals Intact:													Custody Seal No.:																				
A Yes A No																																	
Cooler Temperature(s) °C and Other Remarks:																																	

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Client Information (Sub Contract Lab)			Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:										
Client Contact:			N/A	Teel, Brianna	N/A	890-5136.2										
Shipping/Receiving			Phone:	E-Mail:	State of Origin:	Page:										
Eurofins Environment Testing South Cent			N/A	Brianna.Teel@et.eurofins.com	Texas	Page 2 of 4										
Address:			Due Date Requested:	Accreditations Required (See note)		Job #										
1211 W. Florida Ave.			5/21/2025	NELAP - Texas		890-8162-1										
City:			TAT Requested (days):	Analysis Requested												
Midland			N/A													
State, Zip:																
TX, 79701																
Phone:			PO #:													
432-704-5440(Tel)			N/A													
Email:			WO #:													
N/A			N/A													
Project Name:			Project #:													
Right Meow 31 CTB 7			88001228													
Site:			SSOW#:													
N/A			N/A													
Sample Identification - Client ID (Lab ID)			Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=brine, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total BTX_GCV	8021B/5035FP_Calc BTX	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep 8015 NM	Total Number of containers	Special Instructions/Note:	
HA - 4 (890-8162-10)			5/13/25	12:50	Central	G	Solid	X	X	X	X	X	X	X	1	
HA - 4 (890-8162-11)			5/13/25	12:55	Central	G	Solid	X	X	X	X	X	X	X	1	
HA - 4 (890-8162-12)			5/13/25	13:00	Central	G	Solid	X	X	X	X	X	X	X	1	
HA - 5 (890-8162-13)			5/13/25	13:05	Central	G	Solid	X	X	X	X	X	X	X	1	
HA - 5 (890-8162-14)			5/13/25	13:10	Central	G	Solid	X	X	X	X	X	X	X	1	
HA - 6 (890-8162-15)			5/13/25	13:15	Central	G	Solid	X	X	X	X	X	X	X	1	
HA - 6 (890-8162-16)			5/13/25	13:20	Central	G	Solid	X	X	X	X	X	X	X	1	
HA - 6 (890-8162-17)			5/13/25	13:25	Central	G	Solid	X	X	X	X	X	X	X	1	
HA - 7 (890-8162-18)			5/13/25	13:30	Central	G	Solid	X	X	X	X	X	X	X	1	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC</p>																
Possible Hazard Identification																
Unconfirmed																
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2																
Empty Kit Relinquished by: Date: Time: Method of Shipment:																
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:																
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:																
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:																
Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks:																
Δ Yes Δ No																

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Client Information (Sub Contract Lab)				Sampler	N/A	Lab PM:	Teel, Brianna	Carrier Tracking No(s):	N/A	COC No:	890-5136-3																
Client Contact:				Phone	N/A	E-Mail:	Brianna.Teel@eurofins.com	State of Origin:	Texas	Page:	Page 3 of 4																
Shipping/Receiving				N/A		Accreditations Required (See note)	NEAAP - Texas	Job #:	890-8162-1	Preservation Codes:																	
Company:				Eurofins Environment Testing South Cent																							
Address:				1211 W. Florida Ave.	Due Date Requested:	5/21/2025	Analysis Requested																				
City:				Midland	TAT Requested (days):	N/A																					
State, Zip:				TX, 79701	PO #:	N/A																					
Phone:				432-704-5440(Tel)	WO #:	N/A																					
Email:				N/A	Project #:	88001228																					
Project Name:				Right Meow 31 CTB 7	SSOW#:	N/A																					
Site:				N/A																							
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, A=air)	Field Filtered Sample (Yes or No)				Perform MS/MSD (Yes or No)		Total BTEX_GCV	8021B/5035FP_Calc BTEX	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep	8015 NM	Total Number of containers		Special Instructions/Note:					
HA - 7 (890-8162-19)				5/13/25	13:35	Central	G	Solid		X	X	X	X	X	X											1	
HA - 8 (890-8162-20)				5/14/25	12:00	Central	G	Solid		X	X	X	X	X	X											1	
HA - 8 (890-8162-21)				5/14/25	12:05	Central	G	Solid		X	X	X	X	X	X											1	
HA - 9 (890-8162-22)				5/14/25	12:10	Central	G	Solid		X	X	X	X	X	X											1	
HA - 9 (890-8162-23)				5/14/25	12:15	Central	G	Solid		X	X	X	X	X	X											1	
HA - 9 (890-8162-24)				5/14/25	12:20	Central	G	Solid		X	X	X	X	X	X											1	
HA - 10 (890-8162-25)				5/14/25	12:25	Central	G	Solid		X	X	X	X	X	X											1	
HA - 10 (890-8162-26)				5/14/25	12:30	Central	G	Solid		X	X	X	X	X	X											1	
HA - 10 (890-8162-27)				5/14/25	12:35	Central	G	Solid		X	X	X	X	X	X											1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.																											
Possible Hazard Identification																											
Unconfirmed																											
Deliverable Requested: I, II, III, IV, Other (specify)																											
Primary Deliverable Rank: 2																											
Special Instructions/QC Requirements:																											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																											
Return To Client																											
Disposal By Lab																											
Archive For																											
Months																											
Empty Kit Relinquished by:																											
Date/Time:																											
Company:																											
Received by:																											
Date/Time:																											
Company:																											
Relinquished by:																											
Date/Time:																											
Company:																											
Received by:																											
Date/Time:																											
Company:																											
Cooler Temperature(s) °C and Other Remarks:																											
Custody Seals Intact:																											
Custody Seal No.:																											
Δ Yes Δ No																											

Eurofins Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM:	Carrier Tracking No(s)	COC No:											
Client Contact:	N/A	Teel, Brianna		N/A	890-5136-4											
Shipping/Receiving:	Phone: N/A	E-Mail: Brianna.Teel@eurofins.com	State of Origin: Texas	Page: Page 4 of 4												
Company:	Eurofins Environment Testing South Centir	Accreditations Required (See note): NELAP - Texas		Job #: 890-8162-1	Preservation Codes:											
Address:	1211 W. Florida Ave.	Due Date Requested: 5/21/2025														
City:	Midland	TAT Requested (days): N/A	Analysis Requested													
State, Zip:	TX, 79701															
Phone:	432-704-5440(Tel)	PO #: N/A														
Email:	N/A	WO #: N/A														
Project Name:	Right Meow 31 CTB 7	Project #: 88001228														
Site:	N/A	SSOW#: N/A														
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=Overstabil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total BTEX_GCV	8021B/5035FP_Calc BTEX	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_Calc	8015MOD_NM/8015NM_S_Prep 8015 NM	Total Number of containers	Special Instructions/Note:		
HA - 11 (890-8162-28)		5/14/25	12:40	G	Solid			X	X	X	X	X	X	1		
HA - 11 (890-8162-29)		5/14/25	12:45	G	Solid			X	X	X	X	X	X	1		
HA - 11 (890-8162-30)		5/14/25	12:50	G	Solid			X	X	X	X	X	X	1		
HA - 12 (890-8162-31)		5/14/25	12:55	G	Solid			X	X	X	X	X	X	1		
HA - 12 (890-8162-32)		5/14/25	13:00	G	Solid			X	X	X	X	X	X	1		
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.																
Possible Hazard Identification																
Unconfirmed																
Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2 _____																
Special Instructions/QC Requirements: _____																
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																
Empty Kit Relinquished by:																
Relinquished by:	Date/Time:	5/15	1630	Company:	Received by:	Date/Time:	Company:	Received by:	Date/Time:	Company:	Received by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:			Company:	Received by:	Date/Time:	Company:	Received by:	Date/Time:	Company:	Received by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____																

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8162-1

SDG Number: Lea County, NM

Login Number: 8162

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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: 890-8162-1

SDG Number: Lea County, NM

Login Number: 8162

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 05/16/25 08:14 AM

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	



Environment Testing

- 1
- 2
- 3
- 4
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- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/29/2025 12:15:36 PM

JOB DESCRIPTION

Right Meow 31 CTB 7
Lea County, NM

JOB NUMBER

890-8218-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

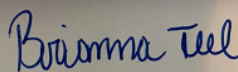
Eurofins Carlsbad

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



Generated
5/29/2025 12:15:36 PM

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

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Laboratory Job ID: 890-8218-1
SDG: Lea County, NM

Table of Contents

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QC Sample Results	12
QC Association Summary	16
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Certification Summary	20
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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8218-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	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
MQL	Method Quantitation Limit
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)
RL	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

Case Narrative

Client: Earth Systems Response and Restoration
Project: Right Meow 31 CTB 7

Job ID: 890-8218-1

Job ID: 890-8218-1

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Job Narrative 890-8218-1

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 5/22/2025 3:57 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 0.3°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 13 (890-8218-1), HA - 14 (890-8218-2), HA - 14 (890-8218-3), HA - 14 (890-8218-4), HA - 15 (890-8218-5) and HA - 15 (890-8218-6).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: HA - 13 (890-8218-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-110903 and analytical batch 880-111082 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

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.

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8218-1
SDG: Lea County, NM

Client Sample ID: HA - 13

Lab Sample ID: 890-8218-1

Date Collected: 05/22/25 12:00

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 19:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 19:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 19:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/23/25 15:41	05/27/25 19:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 19:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/23/25 15:41	05/27/25 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	05/23/25 15:41	05/27/25 19:21	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	05/23/25 15:41	05/27/25 19:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/27/25 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/28/25 19:54	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	<49.7	U *1	49.7		mg/Kg		05/23/25 17:04	05/28/25 19:54	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		05/23/25 17:04	05/28/25 19:54	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/23/25 17:04	05/28/25 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	05/23/25 17:04	05/28/25 19:54	1
o-Terphenyl	82		70 - 130	05/23/25 17:04	05/28/25 19:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8260		101		mg/Kg			05/27/25 12:41	10

Client Sample ID: HA - 14

Lab Sample ID: 890-8218-2

Date Collected: 05/22/25 12:05

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/23/25 15:41	05/27/25 19:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/23/25 15:41	05/27/25 19:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/23/25 15:41	05/27/25 19:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/23/25 15:41	05/27/25 19:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/23/25 15:41	05/27/25 19:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/23/25 15:41	05/27/25 19:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	05/23/25 15:41	05/27/25 19:42	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8218-1
SDG: Lea County, NM

Client Sample ID: HA - 14

Lab Sample ID: 890-8218-2

Date Collected: 05/22/25 12:05

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	73		70 - 130	05/23/25 15:41	05/27/25 19:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/27/25 19:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/28/25 20:11	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	<49.8	U *1	49.8		mg/Kg		05/23/25 17:04	05/28/25 20:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		05/23/25 17:04	05/28/25 20:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/23/25 17:04	05/28/25 20:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				05/23/25 17:04	05/28/25 20:11	1
o-Terphenyl	82		70 - 130				05/23/25 17:04	05/28/25 20:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2920		50.2		mg/Kg			05/27/25 12:48	5

Client Sample ID: HA - 14

Lab Sample ID: 890-8218-3

Date Collected: 05/22/25 12:10

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 1

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		05/23/25 15:41	05/27/25 20:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/23/25 15:41	05/27/25 20:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/23/25 15:41	05/27/25 20:02	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/23/25 15:41	05/27/25 20:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/23/25 15:41	05/27/25 20:02	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/23/25 15:41	05/27/25 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	05/23/25 15:41	05/27/25 20:02	1
1,4-Difluorobenzene (Surr)	73		70 - 130	05/23/25 15:41	05/27/25 20:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/27/25 20:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/28/25 20:25	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8218-1
SDG: Lea County, NM

Client Sample ID: HA - 14

Lab Sample ID: 890-8218-3

Date Collected: 05/22/25 12:10

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 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	<49.9	U *1	49.9		mg/Kg		05/23/25 17:04	05/28/25 20:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		05/23/25 17:04	05/28/25 20:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/25 17:04	05/28/25 20:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				05/23/25 17:04	05/28/25 20:25	1
o-Terphenyl	85		70 - 130				05/23/25 17:04	05/28/25 20:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13500		199		mg/Kg			05/27/25 12:55	20

Client Sample ID: HA - 14

Lab Sample ID: 890-8218-4

Date Collected: 05/22/25 12:15

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 2

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		05/23/25 15:41	05/27/25 20:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/25 15:41	05/27/25 20:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/25 15:41	05/27/25 20:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/25 15:41	05/27/25 20:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/25 15:41	05/27/25 20:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/25 15:41	05/27/25 20:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				05/23/25 15:41	05/27/25 20:23	1
1,4-Difluorobenzene (Surr)	75		70 - 130				05/23/25 15:41	05/27/25 20:23	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			05/27/25 20:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/28/25 20:41	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 *1	50.0		mg/Kg		05/23/25 17:04	05/28/25 20:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		05/23/25 17:04	05/28/25 20:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/25 17:04	05/28/25 20:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				05/23/25 17:04	05/28/25 20:41	1
o-Terphenyl	83		70 - 130				05/23/25 17:04	05/28/25 20:41	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8218-1
SDG: Lea County, NM

Client Sample ID: HA - 14

Lab Sample ID: 890-8218-4

Date Collected: 05/22/25 12:15

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13600		199		mg/Kg			05/27/25 13:02	20

Client Sample ID: HA - 15

Lab Sample ID: 890-8218-5

Date Collected: 05/22/25 12:20

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/23/25 15:41	05/27/25 20:43	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/23/25 15:41	05/27/25 20:43	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/23/25 15:41	05/27/25 20:43	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/23/25 15:41	05/27/25 20:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/23/25 15:41	05/27/25 20:43	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/23/25 15:41	05/27/25 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				05/23/25 15:41	05/27/25 20:43	1
1,4-Difluorobenzene (Surr)	71		70 - 130				05/23/25 15:41	05/27/25 20:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/27/25 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/28/25 20:56	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	<50.1	U *1	50.1		mg/Kg		05/23/25 17:04	05/28/25 20:56	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		05/23/25 17:04	05/28/25 20:56	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/23/25 17:04	05/28/25 20:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				05/23/25 17:04	05/28/25 20:56	1
o-Terphenyl	84		70 - 130				05/23/25 17:04	05/28/25 20:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1040		9.98		mg/Kg			05/27/25 13:09	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8218-1
SDG: Lea County, NM

Client Sample ID: HA - 15

Lab Sample ID: 890-8218-6

Date Collected: 05/22/25 12:25

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 1

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		05/23/25 15:41	05/27/25 21:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/23/25 15:41	05/27/25 21:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/23/25 15:41	05/27/25 21:04	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/23/25 15:41	05/27/25 21:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/23/25 15:41	05/27/25 21:04	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/23/25 15:41	05/27/25 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/23/25 15:41	05/27/25 21:04	1
1,4-Difluorobenzene (Surr)	74		70 - 130	05/23/25 15:41	05/27/25 21:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/27/25 21:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/28/25 21:10	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 *1	50.0		mg/Kg		05/23/25 17:04	05/28/25 21:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		05/23/25 17:04	05/28/25 21:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/25 17:04	05/28/25 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	05/23/25 17:04	05/28/25 21:10	1
o-Terphenyl	85		70 - 130	05/23/25 17:04	05/28/25 21:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7570		101		mg/Kg			05/27/25 13:16	10

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8218-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8218-1	HA - 13	118	69 S1-
890-8218-1 MS	HA - 13	107	86
890-8218-1 MSD	HA - 13	95	87
890-8218-2	HA - 14	99	73
890-8218-3	HA - 14	101	73
890-8218-4	HA - 14	108	75
890-8218-5	HA - 15	109	71
890-8218-6	HA - 15	98	74
LCS 880-110874/1-A	Lab Control Sample	103	86
LCSD 880-110874/2-A	Lab Control Sample Dup	101	86
MB 880-110874/5-A	Method Blank	94	72
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 Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8218-1	HA - 13	79	82
890-8218-2	HA - 14	77	82
890-8218-3	HA - 14	79	85
890-8218-4	HA - 14	78	83
890-8218-5	HA - 15	78	84
890-8218-6	HA - 15	80	85
LCS 880-110903/2-A	Lab Control Sample	75	75
LCSD 880-110903/3-A	Lab Control Sample Dup	116	116
MB 880-110903/1-A	Method Blank	102	107
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8218-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110874/5-A

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/23/25 15:41	05/27/25 18:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	05/23/25 15:41	05/27/25 18:59	1
1,4-Difluorobenzene (Surr)	72		70 - 130	05/23/25 15:41	05/27/25 18:59	1

Lab Sample ID: LCS 880-110874/1-A

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1181		mg/Kg		118	70 - 130
Toluene	0.100	0.1059		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1102		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2233		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1123		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-110874/2-A

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1179		mg/Kg		118	70 - 130	0	35
Toluene	0.100	0.1057		mg/Kg		106	70 - 130	0	35
Ethylbenzene	0.100	0.1108		mg/Kg		111	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2240		mg/Kg		112	70 - 130	0	35
o-Xylene	0.100	0.1135		mg/Kg		114	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 890-8218-1 MS

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: HA - 13

Prep Type: Total/NA

Prep Batch: 110874

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1131		mg/Kg		113	70 - 130
Toluene	<0.00200	U	0.100	0.09815		mg/Kg		98	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8218-1
SDG: Lea County, NM

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

Lab Sample ID: 890-8218-1 MS

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: HA - 13

Prep Type: Total/NA

Prep Batch: 110874

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09850		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1975		mg/Kg		99	70 - 130
o-Xylene	<0.00200	U	0.100	0.1003		mg/Kg		100	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 890-8218-1 MSD

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: HA - 13

Prep Type: Total/NA

Prep Batch: 110874

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1011		mg/Kg		101	70 - 130	11	35
Toluene	<0.00200	U	0.100	0.08674		mg/Kg		87	70 - 130	12	35
Ethylbenzene	<0.00200	U	0.100	0.08523		mg/Kg		85	70 - 130	14	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1664		mg/Kg		83	70 - 130	17	35
o-Xylene	<0.00200	U	0.100	0.08574		mg/Kg		86	70 - 130	16	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

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

Lab Sample ID: MB 880-110903/1-A

Matrix: Solid

Analysis Batch: 111082

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/25 17:04	05/28/25 16:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/25 17:04	05/28/25 16:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/25 17:04	05/28/25 16:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	05/23/25 17:04	05/28/25 16:32	1
o-Terphenyl	107		70 - 130	05/23/25 17:04	05/28/25 16:32	1

Lab Sample ID: LCS 880-110903/2-A

Matrix: Solid

Analysis Batch: 111082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1154		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1096		mg/Kg		110	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8218-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-110903/2-A

Matrix: Solid

Analysis Batch: 111082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110903

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: LCSD 880-110903/3-A

Matrix: Solid

Analysis Batch: 111082

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110903

			Spike	LCSD	LCSD				%Rec			
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	915.0	*1	mg/Kg		92	70 - 130	23	20	
Diesel Range Organics (Over C10-C28)			1000	877.3	*1	mg/Kg		88	70 - 130	22	20	
Surrogate		LCSD	LCSD									
	%Recovery	Qualifier	Limits									
1-Chlorooctane	116		70 - 130									
o-Terphenyl	116		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110942/1-A

Matrix: Solid

Analysis Batch: 110947

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<10.0	U	10.0		mg/Kg			05/27/25 11:16	1		

Lab Sample ID: LCS 880-110942/2-A

Matrix: Solid

Analysis Batch: 110947

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	263.1		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-110942/3-A

Matrix: Solid

Analysis Batch: 110947

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec			
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride			250	261.0		mg/Kg		104	90 - 110	1	20	

Lab Sample ID: 890-8218-6 MS

Matrix: Solid

Analysis Batch: 110947

Client Sample ID: HA - 15

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	7570		2530	10230		mg/Kg		106	90 - 110		

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8218-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8218-6 MSD					Client Sample ID: HA - 15							
Matrix: Solid					Prep Type: Soluble							
Analysis Batch: 110947												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	7570		2530	10210		mg/Kg		105	90 - 110	0	20	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8218-1
SDG: Lea County, NM

GC VOA

Prep Batch: 110874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8218-1	HA - 13	Total/NA	Solid	5035	
890-8218-2	HA - 14	Total/NA	Solid	5035	
890-8218-3	HA - 14	Total/NA	Solid	5035	
890-8218-4	HA - 14	Total/NA	Solid	5035	
890-8218-5	HA - 15	Total/NA	Solid	5035	
890-8218-6	HA - 15	Total/NA	Solid	5035	
MB 880-110874/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110874/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110874/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8218-1 MS	HA - 13	Total/NA	Solid	5035	
890-8218-1 MSD	HA - 13	Total/NA	Solid	5035	

Analysis Batch: 111016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8218-1	HA - 13	Total/NA	Solid	8021B	110874
890-8218-2	HA - 14	Total/NA	Solid	8021B	110874
890-8218-3	HA - 14	Total/NA	Solid	8021B	110874
890-8218-4	HA - 14	Total/NA	Solid	8021B	110874
890-8218-5	HA - 15	Total/NA	Solid	8021B	110874
890-8218-6	HA - 15	Total/NA	Solid	8021B	110874
MB 880-110874/5-A	Method Blank	Total/NA	Solid	8021B	110874
LCS 880-110874/1-A	Lab Control Sample	Total/NA	Solid	8021B	110874
LCSD 880-110874/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110874
890-8218-1 MS	HA - 13	Total/NA	Solid	8021B	110874
890-8218-1 MSD	HA - 13	Total/NA	Solid	8021B	110874

Analysis Batch: 111037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8218-1	HA - 13	Total/NA	Solid	Total BTEX	
890-8218-2	HA - 14	Total/NA	Solid	Total BTEX	
890-8218-3	HA - 14	Total/NA	Solid	Total BTEX	
890-8218-4	HA - 14	Total/NA	Solid	Total BTEX	
890-8218-5	HA - 15	Total/NA	Solid	Total BTEX	
890-8218-6	HA - 15	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 110903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8218-1	HA - 13	Total/NA	Solid	8015NM Prep	
890-8218-2	HA - 14	Total/NA	Solid	8015NM Prep	
890-8218-3	HA - 14	Total/NA	Solid	8015NM Prep	
890-8218-4	HA - 14	Total/NA	Solid	8015NM Prep	
890-8218-5	HA - 15	Total/NA	Solid	8015NM Prep	
890-8218-6	HA - 15	Total/NA	Solid	8015NM Prep	
MB 880-110903/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110903/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110903/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8218-1
SDG: Lea County, NM

GC Semi VOA

Analysis Batch: 111082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8218-1	HA - 13	Total/NA	Solid	8015B NM	110903
890-8218-2	HA - 14	Total/NA	Solid	8015B NM	110903
890-8218-3	HA - 14	Total/NA	Solid	8015B NM	110903
890-8218-4	HA - 14	Total/NA	Solid	8015B NM	110903
890-8218-5	HA - 15	Total/NA	Solid	8015B NM	110903
890-8218-6	HA - 15	Total/NA	Solid	8015B NM	110903
MB 880-110903/1-A	Method Blank	Total/NA	Solid	8015B NM	110903
LCS 880-110903/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110903
LCSD 880-110903/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110903

Analysis Batch: 111145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8218-1	HA - 13	Total/NA	Solid	8015 NM	
890-8218-2	HA - 14	Total/NA	Solid	8015 NM	
890-8218-3	HA - 14	Total/NA	Solid	8015 NM	
890-8218-4	HA - 14	Total/NA	Solid	8015 NM	
890-8218-5	HA - 15	Total/NA	Solid	8015 NM	
890-8218-6	HA - 15	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 110942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8218-1	HA - 13	Soluble	Solid	DI Leach	
890-8218-2	HA - 14	Soluble	Solid	DI Leach	
890-8218-3	HA - 14	Soluble	Solid	DI Leach	
890-8218-4	HA - 14	Soluble	Solid	DI Leach	
890-8218-5	HA - 15	Soluble	Solid	DI Leach	
890-8218-6	HA - 15	Soluble	Solid	DI Leach	
MB 880-110942/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110942/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110942/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8218-6 MS	HA - 15	Soluble	Solid	DI Leach	
890-8218-6 MSD	HA - 15	Soluble	Solid	DI Leach	

Analysis Batch: 110947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8218-1	HA - 13	Soluble	Solid	300.0	110942
890-8218-2	HA - 14	Soluble	Solid	300.0	110942
890-8218-3	HA - 14	Soluble	Solid	300.0	110942
890-8218-4	HA - 14	Soluble	Solid	300.0	110942
890-8218-5	HA - 15	Soluble	Solid	300.0	110942
890-8218-6	HA - 15	Soluble	Solid	300.0	110942
MB 880-110942/1-A	Method Blank	Soluble	Solid	300.0	110942
LCS 880-110942/2-A	Lab Control Sample	Soluble	Solid	300.0	110942
LCSD 880-110942/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110942
890-8218-6 MS	HA - 15	Soluble	Solid	300.0	110942
890-8218-6 MSD	HA - 15	Soluble	Solid	300.0	110942

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8218-1
SDG: Lea County, NM

Client Sample ID: HA - 13

Lab Sample ID: 890-8218-1

Date Collected: 05/22/25 12:00

Matrix: Solid

Date Received: 05/22/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110874	05/23/25 15:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111016	05/27/25 19:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111037	05/27/25 19:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			111145	05/28/25 19:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110903	05/23/25 17:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111082	05/28/25 19:54	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110942	05/27/25 08:45	SA	EET MID
Soluble	Analysis	300.0		10			110947	05/27/25 12:41	CH	EET MID

Client Sample ID: HA - 14

Lab Sample ID: 890-8218-2

Date Collected: 05/22/25 12:05

Matrix: Solid

Date Received: 05/22/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110874	05/23/25 15:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111016	05/27/25 19:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111037	05/27/25 19:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			111145	05/28/25 20:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110903	05/23/25 17:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111082	05/28/25 20:11	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110942	05/27/25 08:45	SA	EET MID
Soluble	Analysis	300.0		5			110947	05/27/25 12:48	CH	EET MID

Client Sample ID: HA - 14

Lab Sample ID: 890-8218-3

Date Collected: 05/22/25 12:10

Matrix: Solid

Date Received: 05/22/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110874	05/23/25 15:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111016	05/27/25 20:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111037	05/27/25 20:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			111145	05/28/25 20:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	110903	05/23/25 17:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111082	05/28/25 20:25	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110942	05/27/25 08:45	SA	EET MID
Soluble	Analysis	300.0		20			110947	05/27/25 12:55	CH	EET MID

Client Sample ID: HA - 14

Lab Sample ID: 890-8218-4

Date Collected: 05/22/25 12:15

Matrix: Solid

Date Received: 05/22/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110874	05/23/25 15:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111016	05/27/25 20:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111037	05/27/25 20:23	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8218-1
SDG: Lea County, NM

Client Sample ID: HA - 14

Lab Sample ID: 890-8218-4

Date Collected: 05/22/25 12:15

Matrix: Solid

Date Received: 05/22/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			111145	05/28/25 20:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110903	05/23/25 17:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111082	05/28/25 20:41	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110942	05/27/25 08:45	SA	EET MID
Soluble	Analysis	300.0		20			110947	05/27/25 13:02	CH	EET MID

Client Sample ID: HA - 15

Lab Sample ID: 890-8218-5

Date Collected: 05/22/25 12:20

Matrix: Solid

Date Received: 05/22/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110874	05/23/25 15:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111016	05/27/25 20:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111037	05/27/25 20:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			111145	05/28/25 20:56	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	110903	05/23/25 17:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111082	05/28/25 20:56	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110942	05/27/25 08:45	SA	EET MID
Soluble	Analysis	300.0		1			110947	05/27/25 13:09	CH	EET MID

Client Sample ID: HA - 15

Lab Sample ID: 890-8218-6

Date Collected: 05/22/25 12:25

Matrix: Solid

Date Received: 05/22/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110874	05/23/25 15:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111016	05/27/25 21:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111037	05/27/25 21:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			111145	05/28/25 21:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110903	05/23/25 17:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111082	05/28/25 21:10	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110942	05/27/25 08:45	SA	EET MID
Soluble	Analysis	300.0		10			110947	05/27/25 13:16	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8218-1
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	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8218-1
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: Right Meow 31 CTB 7

Job ID: 890-8218-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8218-1	HA - 13	Solid	05/22/25 12:00	05/22/25 15:57	0.5
890-8218-2	HA - 14	Solid	05/22/25 12:05	05/22/25 15:57	0.5
890-8218-3	HA - 14	Solid	05/22/25 12:10	05/22/25 15:57	1
890-8218-4	HA - 14	Solid	05/22/25 12:15	05/22/25 15:57	2
890-8218-5	HA - 15	Solid	05/22/25 12:20	05/22/25 15:57	0.5
890-8218-6	HA - 15	Solid	05/22/25 12:25	05/22/25 15:57	1

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Chain of Custody

Work Order No:


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Page () of ()

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gimoreno@earthsys.net

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting: Level II	<input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> AnAPT <input type="checkbox"/> Other: _____

890-8218 Chain of Custody

ANALYSIS REPORT					
Project Name:	Right Meow 31 CTB 7	Turn Around		Pres.	
Project Number:	343	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush	Code	
Project Location:	Lea County, NM	Due Date:	Routine TAT		
Sampler's Name:	Santiago Giron	TAT starts the day received by the lab, if received by 4:30pm			
CCWFO #:	21574502				
SAMPLE RECEIPT		Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	Yes No	Thermometer ID:	T-1106C7		
Cooler Custody Seals:	Yes No	Correction Factor:	-0.2		
Sample Custody Seals:	Yes No	N/A	Temperature Reading:	0.5	
Total Containers:		Corrected Temperature:	0.3		
Parameters					
<div style="text-align: right;">  890-8218 Chain of Custody </div>					
Preservative Codes					
None: NO	DI Water: H ₂ O	Gordt-Good	MeOH-Me	HCL: HC	HNO ₃ : HN
H ₂ SO ₄ : H ₂	NaOH: Na				
H ₃ PO ₄ : HP					
NaHSO ₄ : NABIS					
Na ₂ S ₂ O ₃ : NaSO ₃					
Zn Acetate+NaOH: Zn					
NaOH+Ascorbic Acid: SAPC					

[illegible]

Total 200.7 / 6010 200.8 / 6020:

Hg: 1631 / 245.1 / 7470 / 74

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. It assigns trademark, terms and conditions to service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$65.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	1557 5/22			

Revised Date: 09/23/2020 Rev. 2020

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8218-1

SDG Number: Lea County, NM

Login Number: 8218

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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: 890-8218-1

SDG Number: Lea County, NM

Login Number: 8218

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 05/23/25 03:10 PM

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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/29/2025 12:16:24 PM

JOB DESCRIPTION

Right Meow 31 CTB 7
343

JOB NUMBER

890-8219-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

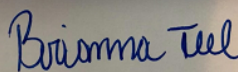
Eurofins Carlsbad

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



Generated
5/29/2025 12:16:24 PM

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

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Laboratory Job ID: 890-8219-1
SDG: 343

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8219-1
SDG: 343

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	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
MQL	Method Quantitation Limit
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)
RL	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

Case Narrative

Client: Earth Systems Response and Restoration
Project: Right Meow 31 CTB 7

Job ID: 890-8219-1

Job ID: 890-8219-1

Eurofins Carlsbad

Job Narrative 890-8219-1

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 5/22/2025 3:57 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 0.3°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA-16 (890-8219-1), HA-16 (890-8219-2) and HA-16 (890-8219-3).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-16 (890-8219-2) and (890-8218-A-1-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-110903 and analytical batch 880-111082 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

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.

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8219-1
SDG: 343

Client Sample ID: HA-16

Lab Sample ID: 890-8219-1

Date Collected: 05/22/25 12:30

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/23/25 15:41	05/27/25 21:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/23/25 15:41	05/27/25 21:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/23/25 15:41	05/27/25 21:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/23/25 15:41	05/27/25 21:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/23/25 15:41	05/27/25 21:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/23/25 15:41	05/27/25 21:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	05/23/25 15:41	05/27/25 21:24	1
1,4-Difluorobenzene (Surr)	71		70 - 130	05/23/25 15:41	05/27/25 21:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/27/25 21:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/28/25 21:40	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	<49.8	U *1	49.8		mg/Kg		05/23/25 17:04	05/28/25 21:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		05/23/25 17:04	05/28/25 21:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/23/25 17:04	05/28/25 21:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	05/23/25 17:04	05/28/25 21:40	1
o-Terphenyl	84		70 - 130	05/23/25 17:04	05/28/25 21:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		10.1		mg/Kg			05/27/25 14:51	1

Client Sample ID: HA-16

Lab Sample ID: 890-8219-2

Date Collected: 05/22/25 12:35

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 1

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		05/23/25 15:41	05/27/25 21:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/25 15:41	05/27/25 21:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/25 15:41	05/27/25 21:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/25 15:41	05/27/25 21:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/25 15:41	05/27/25 21:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/25 15:41	05/27/25 21:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	05/23/25 15:41	05/27/25 21:45	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8219-1
SDG: 343

Client Sample ID: HA-16

Lab Sample ID: 890-8219-2

Date Collected: 05/22/25 12:35

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130	05/23/25 15:41	05/27/25 21:45	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			05/27/25 21:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/28/25 21:57	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	<49.7	U *1	49.7		mg/Kg		05/23/25 17:04	05/28/25 21:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		05/23/25 17:04	05/28/25 21:57	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/23/25 17:04	05/28/25 21:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				05/23/25 17:04	05/28/25 21:57	1
o-Terphenyl	82		70 - 130				05/23/25 17:04	05/28/25 21:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	164		9.94		mg/Kg			05/27/25 14:30	1

Client Sample ID: HA-16

Lab Sample ID: 890-8219-3

Date Collected: 05/22/25 12:40

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/23/25 15:41	05/27/25 22:05	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/23/25 15:41	05/27/25 22:05	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/23/25 15:41	05/27/25 22:05	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/23/25 15:41	05/27/25 22:05	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/23/25 15:41	05/27/25 22:05	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/23/25 15:41	05/27/25 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	05/23/25 15:41	05/27/25 22:05	1
1,4-Difluorobenzene (Surr)	75		70 - 130	05/23/25 15:41	05/27/25 22:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/27/25 22:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/28/25 22:12	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8219-1
SDG: 343

Client Sample ID: HA-16
Date Collected: 05/22/25 12:40
Date Received: 05/22/25 15:57
Sample Depth: 2

Lab Sample ID: 890-8219-3
Matrix: Solid

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	<49.9	U *1	49.9		mg/Kg		05/23/25 17:04	05/28/25 22:12	1	
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		05/23/25 17:04	05/28/25 22:12	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/25 17:04	05/28/25 22:12	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	79		70 - 130				05/23/25 17:04	05/28/25 22:12	1	
o-Terphenyl	82		70 - 130				05/23/25 17:04	05/28/25 22:12	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	157		9.98		mg/Kg			05/27/25 14:58	1	

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8219-1
SDG: 343

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8219-1	HA-16	101	71
890-8219-2	HA-16	116	65 S1-
890-8219-3	HA-16	103	75
LCS 880-110874/1-A	Lab Control Sample	103	86
LCSD 880-110874/2-A	Lab Control Sample Dup	101	86
MB 880-110874/5-A	Method Blank	94	72
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 Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8219-1	HA-16	79	84
890-8219-2	HA-16	78	82
890-8219-3	HA-16	79	82
LCS 880-110903/2-A	Lab Control Sample	75	75
LCSD 880-110903/3-A	Lab Control Sample Dup	116	116
MB 880-110903/1-A	Method Blank	102	107
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8219-1
SDG: 343

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110874/5-A

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/23/25 15:41	05/27/25 18:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	05/23/25 15:41	05/27/25 18:59	1
1,4-Difluorobenzene (Surr)	72		70 - 130	05/23/25 15:41	05/27/25 18:59	1

Lab Sample ID: LCS 880-110874/1-A

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1181		mg/Kg		118	70 - 130
Toluene	0.100	0.1059		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1102		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2233		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1123		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-110874/2-A

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1179		mg/Kg		118	70 - 130	0	35
Toluene	0.100	0.1057		mg/Kg		106	70 - 130	0	35
Ethylbenzene	0.100	0.1108		mg/Kg		111	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2240		mg/Kg		112	70 - 130	0	35
o-Xylene	0.100	0.1135		mg/Kg		114	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8219-1
SDG: 343

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

Lab Sample ID: MB 880-110903/1-A

Matrix: Solid

Analysis Batch: 111082

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/25 17:04	05/28/25 16:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/25 17:04	05/28/25 16:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/25 17:04	05/28/25 16:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/23/25 17:04	05/28/25 16:32	1
o-Terphenyl	107		70 - 130				05/23/25 17:04	05/28/25 16:32	1

Lab Sample ID: LCS 880-110903/2-A

Matrix: Solid

Analysis Batch: 111082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1154		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1096		mg/Kg		110	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	75		70 - 130				
o-Terphenyl	75		70 - 130				

Lab Sample ID: LCSD 880-110903/3-A

Matrix: Solid

Analysis Batch: 111082

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110903

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	915.0	*1	mg/Kg		92	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	1000	877.3	*1	mg/Kg		88	70 - 130	22	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	116		70 - 130						
o-Terphenyl	116		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110942/1-A

Matrix: Solid

Analysis Batch: 110947

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/27/25 11:16	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8219-1
SDG: 343

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-110942/2-A

Matrix: Solid

Analysis Batch: 110947

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.1		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-110942/3-A

Matrix: Solid

Analysis Batch: 110947

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	261.0		mg/Kg		104	90 - 110	1	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8219-1
SDG: 343

GC VOA

Prep Batch: 110874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8219-1	HA-16	Total/NA	Solid	5035	
890-8219-2	HA-16	Total/NA	Solid	5035	
890-8219-3	HA-16	Total/NA	Solid	5035	
MB 880-110874/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110874/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110874/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 111016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8219-1	HA-16	Total/NA	Solid	8021B	110874
890-8219-2	HA-16	Total/NA	Solid	8021B	110874
890-8219-3	HA-16	Total/NA	Solid	8021B	110874
MB 880-110874/5-A	Method Blank	Total/NA	Solid	8021B	110874
LCS 880-110874/1-A	Lab Control Sample	Total/NA	Solid	8021B	110874
LCSD 880-110874/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110874

Analysis Batch: 111038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8219-1	HA-16	Total/NA	Solid	Total BTEX	
890-8219-2	HA-16	Total/NA	Solid	Total BTEX	
890-8219-3	HA-16	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 110903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8219-1	HA-16	Total/NA	Solid	8015NM Prep	
890-8219-2	HA-16	Total/NA	Solid	8015NM Prep	
890-8219-3	HA-16	Total/NA	Solid	8015NM Prep	
MB 880-110903/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110903/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110903/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 111082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8219-1	HA-16	Total/NA	Solid	8015B NM	110903
890-8219-2	HA-16	Total/NA	Solid	8015B NM	110903
890-8219-3	HA-16	Total/NA	Solid	8015B NM	110903
MB 880-110903/1-A	Method Blank	Total/NA	Solid	8015B NM	110903
LCS 880-110903/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110903
LCSD 880-110903/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110903

Analysis Batch: 111146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8219-1	HA-16	Total/NA	Solid	8015 NM	
890-8219-2	HA-16	Total/NA	Solid	8015 NM	
890-8219-3	HA-16	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8219-1
SDG: 343

HPLC/IC

Leach Batch: 110942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8219-1	HA-16	Soluble	Solid	DI Leach	
890-8219-2	HA-16	Soluble	Solid	DI Leach	
890-8219-3	HA-16	Soluble	Solid	DI Leach	
MB 880-110942/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110942/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110942/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 110947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8219-1	HA-16	Soluble	Solid	300.0	110942
890-8219-2	HA-16	Soluble	Solid	300.0	110942
890-8219-3	HA-16	Soluble	Solid	300.0	110942
MB 880-110942/1-A	Method Blank	Soluble	Solid	300.0	110942
LCS 880-110942/2-A	Lab Control Sample	Soluble	Solid	300.0	110942
LCSD 880-110942/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110942

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8219-1
SDG: 343

Client Sample ID: HA-16
Date Collected: 05/22/25 12:30
Date Received: 05/22/25 15:57

Lab Sample ID: 890-8219-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	110874	05/23/25 15:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111016	05/27/25 21:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111038	05/27/25 21:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			111146	05/28/25 21:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110903	05/23/25 17:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111082	05/28/25 21:40	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110942	05/27/25 08:45	SA	EET MID
Soluble	Analysis	300.0		1			110947	05/27/25 14:51	CH	EET MID

Client Sample ID: HA-16
Date Collected: 05/22/25 12:35
Date Received: 05/22/25 15:57

Lab Sample ID: 890-8219-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110874	05/23/25 15:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111016	05/27/25 21:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111038	05/27/25 21:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			111146	05/28/25 21:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110903	05/23/25 17:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111082	05/28/25 21:57	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110942	05/27/25 08:45	SA	EET MID
Soluble	Analysis	300.0		1			110947	05/27/25 14:30	CH	EET MID

Client Sample ID: HA-16
Date Collected: 05/22/25 12:40
Date Received: 05/22/25 15:57

Lab Sample ID: 890-8219-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110874	05/23/25 15:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111016	05/27/25 22:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111038	05/27/25 22:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			111146	05/28/25 22:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	110903	05/23/25 17:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111082	05/28/25 22:12	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110942	05/27/25 08:45	SA	EET MID
Soluble	Analysis	300.0		1			110947	05/27/25 14:58	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: Right Meow 31 CTB 7

Job ID: 890-8219-1
SDG: 343

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	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8219-1
SDG: 343

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: Right Meow 31 CTB 7

Job ID: 890-8219-1
SDG: 343

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8219-1	HA-16	Solid	05/22/25 12:30	05/22/25 15:57	0.5
890-8219-2	HA-16	Solid	05/22/25 12:35	05/22/25 15:57	1
890-8219-3	HA-16	Solid	05/22/25 12:40	05/22/25 15:57	2

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 508-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody



890-8219 Chain of Custody

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmorano@earthsys.net

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PPR <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

Project Name:		Right Meow 31 CTB 7		Turn Around		ANALYSIS REQUEST												Preservative Codes											
Project Number:		343		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code														None: NO DI Water: H ₂ O									
Project Location:		Lea County, NM		Due Date:		Routine TAT																Cool: Cool MeOH: Me							
Sampler's Name:		Santiago Giron		TAT starts the day received by the lab, if received by 4:30pm																		HCL: HC HNO ₃ : HN							
CCWO #:		21574502																				H ₂ SO ₄ : H ₂ NaOH: Na							
SAMPLE RECEIPT		Temp Blank: (Yes) No		Wet Ice: (Yes) No		Parameters														H ₃ PO ₄ : HP									
Samples Received Inact:		(Yes) No		Thermometer ID: TATmeow																									
Cooler Custody Seals:		Yes No N/A		Correction Factor: -0.2																									
Sample Custody Seals:		Yes No N/A		Temperature Reading: 0.5																									
Total Containers:				Corrected Temperature: 0.3																									
Sample Identification		Matrix		Date Sampled		Time Sampled		Depth (feet)		Grab/Comp		# of Cont														Sample Comments			
HA-16		S		5.22.25		12:30		0.5		Grab/		1		TPH -NM														Incident Number	
HA-16		S		5.22.25		12:35		1		Grab/		1		X X X														NAPP2511547307	
HA-16		S		5.22.25		12:40		2		Grab/		1		X X X															

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		5/22 15:27			

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8219-1

SDG Number: 343

Login Number: 8219

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	N/A	Refer to Job Narrative for details.
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: 890-8219-1

SDG Number: 343

Login Number: 8219

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 05/23/25 03:10 PM

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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/29/2025 12:17:01 PM

JOB DESCRIPTION

Right Meow 31 CTB 7
Lea County, NM

JOB NUMBER

890-8220-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

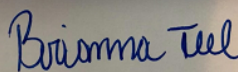
Eurofins Carlsbad

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



Generated
5/29/2025 12:17:01 PM

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

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Laboratory Job ID: 890-8220-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8220-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	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
MQL	Method Quantitation Limit
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)
RL	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

Case Narrative

Client: Earth Systems Response and Restoration
Project: Right Meow 31 CTB 7

Job ID: 890-8220-1

Job ID: 890-8220-1

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Job Narrative 890-8220-1

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 5/22/2025 3:57 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 0.3°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA-17 (890-8220-1) and HA-17 (890-8220-2).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-17 (890-8220-2) and (890-8218-A-1-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-110903 and analytical batch 880-111082 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

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.

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8220-1
SDG: Lea County, NM

Client Sample ID: HA-17

Lab Sample ID: 890-8220-1

Date Collected: 05/22/25 12:45

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 0.5

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		05/23/25 15:41	05/27/25 22:26	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/23/25 15:41	05/27/25 22:26	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/23/25 15:41	05/27/25 22:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/23/25 15:41	05/27/25 22:26	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/23/25 15:41	05/27/25 22:26	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/23/25 15:41	05/27/25 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	05/23/25 15:41	05/27/25 22:26	1
1,4-Difluorobenzene (Surr)	72		70 - 130	05/23/25 15:41	05/27/25 22:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/27/25 22:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/28/25 22:28	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	<49.9	U *1	49.9		mg/Kg		05/23/25 17:04	05/28/25 22:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		05/23/25 17:04	05/28/25 22:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/25 17:04	05/28/25 22:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	05/23/25 17:04	05/28/25 22:28	1
o-Terphenyl	84		70 - 130	05/23/25 17:04	05/28/25 22:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5060		50.1		mg/Kg			05/27/25 15:05	5

Client Sample ID: HA-17

Lab Sample ID: 890-8220-2

Date Collected: 05/22/25 12:50

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/23/25 15:41	05/28/25 00:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/23/25 15:41	05/28/25 00:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/23/25 15:41	05/28/25 00:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/23/25 15:41	05/28/25 00:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/23/25 15:41	05/28/25 00:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/23/25 15:41	05/28/25 00:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/23/25 15:41	05/28/25 00:01	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8220-1
SDG: Lea County, NM

Client Sample ID: HA-17

Lab Sample ID: 890-8220-2

Date Collected: 05/22/25 12:50

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	05/23/25 15:41	05/28/25 00:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/28/25 00:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/28/25 22:43	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	<50.1	U *1	50.1		mg/Kg		05/23/25 17:04	05/28/25 22:43	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		05/23/25 17:04	05/28/25 22:43	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/23/25 17:04	05/28/25 22:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				05/23/25 17:04	05/28/25 22:43	1
o-Terphenyl	85		70 - 130				05/23/25 17:04	05/28/25 22:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	903		9.90		mg/Kg			05/27/25 15:12	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8220-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8220-1	HA-17	103	72
890-8220-2	HA-17	107	69 S1-
LCS 880-110874/1-A	Lab Control Sample	103	86
LCSD 880-110874/2-A	Lab Control Sample Dup	101	86
MB 880-110874/5-A	Method Blank	94	72
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 Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8220-1	HA-17	85	84
890-8220-2	HA-17	81	85
LCS 880-110903/2-A	Lab Control Sample	75	75
LCSD 880-110903/3-A	Lab Control Sample Dup	116	116
MB 880-110903/1-A	Method Blank	102	107
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8220-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110874/5-A

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/23/25 15:41	05/27/25 18:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	05/23/25 15:41	05/27/25 18:59	1
1,4-Difluorobenzene (Surr)	72		70 - 130	05/23/25 15:41	05/27/25 18:59	1

Lab Sample ID: LCS 880-110874/1-A

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1181		mg/Kg		118	70 - 130
Toluene	0.100	0.1059		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1102		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2233		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1123		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-110874/2-A

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1179		mg/Kg		118	70 - 130	0	35
Toluene	0.100	0.1057		mg/Kg		106	70 - 130	0	35
Ethylbenzene	0.100	0.1108		mg/Kg		111	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2240		mg/Kg		112	70 - 130	0	35
o-Xylene	0.100	0.1135		mg/Kg		114	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8220-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-110903/1-A

Matrix: Solid

Analysis Batch: 111082

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/25 17:04	05/28/25 16:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/25 17:04	05/28/25 16:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/25 17:04	05/28/25 16:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/23/25 17:04	05/28/25 16:32	1
o-Terphenyl	107		70 - 130				05/23/25 17:04	05/28/25 16:32	1

Lab Sample ID: LCS 880-110903/2-A

Matrix: Solid

Analysis Batch: 111082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1154		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1096		mg/Kg		110	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	75		70 - 130				
o-Terphenyl	75		70 - 130				

Lab Sample ID: LCSD 880-110903/3-A

Matrix: Solid

Analysis Batch: 111082

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110903

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	915.0	*1	mg/Kg		92	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	1000	877.3	*1	mg/Kg		88	70 - 130	22	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	116		70 - 130						
o-Terphenyl	116		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110942/1-A

Matrix: Solid

Analysis Batch: 110947

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/27/25 11:16	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8220-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-110942/2-A				Client Sample ID: Lab Control Sample						
Matrix: Solid				Prep Type: Soluble						
Analysis Batch: 110947										
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	250	263.1		mg/Kg		105	90 - 110			

Lab Sample ID: LCSD 880-110942/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Solid				Prep Type: Soluble						
Analysis Batch: 110947										
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	250	261.0		mg/Kg		104	90 - 110	1	20	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8220-1
SDG: Lea County, NM

GC VOA

Prep Batch: 110874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8220-1	HA-17	Total/NA	Solid	5035	
890-8220-2	HA-17	Total/NA	Solid	5035	
MB 880-110874/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110874/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110874/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 111016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8220-1	HA-17	Total/NA	Solid	8021B	110874
890-8220-2	HA-17	Total/NA	Solid	8021B	110874
MB 880-110874/5-A	Method Blank	Total/NA	Solid	8021B	110874
LCS 880-110874/1-A	Lab Control Sample	Total/NA	Solid	8021B	110874
LCSD 880-110874/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110874

Analysis Batch: 111039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8220-1	HA-17	Total/NA	Solid	Total BTEX	
890-8220-2	HA-17	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 110903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8220-1	HA-17	Total/NA	Solid	8015NM Prep	
890-8220-2	HA-17	Total/NA	Solid	8015NM Prep	
MB 880-110903/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110903/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110903/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 111082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8220-1	HA-17	Total/NA	Solid	8015B NM	110903
890-8220-2	HA-17	Total/NA	Solid	8015B NM	110903
MB 880-110903/1-A	Method Blank	Total/NA	Solid	8015B NM	110903
LCS 880-110903/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110903
LCSD 880-110903/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110903

Analysis Batch: 111147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8220-1	HA-17	Total/NA	Solid	8015 NM	
890-8220-2	HA-17	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 110942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8220-1	HA-17	Soluble	Solid	DI Leach	
890-8220-2	HA-17	Soluble	Solid	DI Leach	
MB 880-110942/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110942/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110942/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8220-1
SDG: Lea County, NM

HPLC/IC

Analysis Batch: 110947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8220-1	HA-17	Soluble	Solid	300.0	110942
890-8220-2	HA-17	Soluble	Solid	300.0	110942
MB 880-110942/1-A	Method Blank	Soluble	Solid	300.0	110942
LCS 880-110942/2-A	Lab Control Sample	Soluble	Solid	300.0	110942
LCSD 880-110942/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110942

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8220-1
SDG: Lea County, NM

Client Sample ID: HA-17
Date Collected: 05/22/25 12:45
Date Received: 05/22/25 15:57

Lab Sample ID: 890-8220-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110874	05/23/25 15:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111016	05/27/25 22:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111039	05/27/25 22:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			111147	05/28/25 22:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	110903	05/23/25 17:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111082	05/28/25 22:28	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	110942	05/27/25 08:45	SA	EET MID
Soluble	Analysis	300.0		5			110947	05/27/25 15:05	CH	EET MID

Client Sample ID: HA-17
Date Collected: 05/22/25 12:50
Date Received: 05/22/25 15:57

Lab Sample ID: 890-8220-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110874	05/23/25 15:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111016	05/28/25 00:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111039	05/28/25 00:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			111147	05/28/25 22:43	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	110903	05/23/25 17:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111082	05/28/25 22:43	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110942	05/27/25 08:45	SA	EET MID
Soluble	Analysis	300.0		1			110947	05/27/25 15:12	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: Right Meow 31 CTB 7

Job ID: 890-8220-1
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	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8220-1
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: Right Meow 31 CTB 7

Job ID: 890-8220-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8220-1	HA-17	Solid	05/22/25 12:45	05/22/25 15:57	0.5
890-8220-2	HA-17	Solid	05/22/25 12:50	05/22/25 15:57	1

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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



890-8220 Chain of Custody

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmoreno@earthsys.net

Work Order Comments	
Program: <input type="checkbox"/> UST/PT <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Right Meow 31 CTB 7	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code	ANALYSIS REQUEST																Preservative Codes	
Project Number:	343																				None: NO DI Water: H ₂ O	
Project Location:	Lea County, NM	Due Date:	Routine TAT																		Cool: Cool MeOH: Me	
Sampler's Name:	Santiago Giron	TAT starts the day received by the lab, if received by 4:30pm																			HCL: HC HNO ₃ : HN	
CCWQ #:	21574502																				H ₂ SO ₄ : H ₂ NaOH: Na	
SAMPLE RECEIPT	Temp Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																	H ₃ PO ₄ : HP	
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:	TAC-0.2																		NaHSO ₄ : NABIS	
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:	0.5																		Na ₂ S ₂ O ₅ : NaSO ₃	
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature Reading:	0.3																		Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:	0.3																		NaOH+Ascorbic Acid: SAPC	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush											Sample Comments
HA-17	S	5.22.25	12:45	0.5	Grab/	1	X	X	X													Incident Number
HA-17	S	5.22.25	12:50	1	Grab/	1	X	X	X													nAPP2511547307

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed 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. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		5/22/25 15:37			

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8220-1

SDG Number: Lea County, NM

Login Number: 8220

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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: 890-8220-1

SDG Number: Lea County, NM

Login Number: 8220

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 05/23/25 03:10 PM

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	



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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/29/2025 12:18:08 PM

JOB DESCRIPTION

Right Meow 31 CTB 7
Lea County, NM

JOB NUMBER

890-8222-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

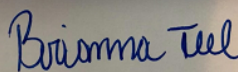
Eurofins Carlsbad

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



Generated
5/29/2025 12:18:08 PM

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

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Laboratory Job ID: 890-8222-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8222-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	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
MQL	Method Quantitation Limit
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)
RL	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

Case Narrative

Client: Earth Systems Response and Restoration
Project: Right Meow 31 CTB 7

Job ID: 890-8222-1

Job ID: 890-8222-1

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Job Narrative 890-8222-1

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 sample was received on 5/22/2025 3:57 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: HA-18 (890-8222-1).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-110903 and analytical batch 880-111082 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

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.

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8222-1
SDG: Lea County, NM

Client Sample ID: HA-18

Lab Sample ID: 890-8222-1

Date Collected: 05/22/25 12:55

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 0.5

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		05/23/25 15:41	05/28/25 01:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/23/25 15:41	05/28/25 01:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/23/25 15:41	05/28/25 01:23	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/23/25 15:41	05/28/25 01:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/23/25 15:41	05/28/25 01:23	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/23/25 15:41	05/28/25 01:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				05/23/25 15:41	05/28/25 01:23	1
1,4-Difluorobenzene (Surr)	72		70 - 130				05/23/25 15:41	05/28/25 01:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/28/25 01:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/28/25 23:45	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	<50.1	U *1	50.1		mg/Kg		05/23/25 17:04	05/28/25 23:45	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		05/23/25 17:04	05/28/25 23:45	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/23/25 17:04	05/28/25 23:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				05/23/25 17:04	05/28/25 23:45	1
o-Terphenyl	82		70 - 130				05/23/25 17:04	05/28/25 23:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	520		10.1		mg/Kg			05/27/25 15:41	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8222-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8222-1	HA-18	109	72
LCS 880-110874/1-A	Lab Control Sample	103	86
LCSD 880-110874/2-A	Lab Control Sample Dup	101	86
MB 880-110874/5-A	Method Blank	94	72
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 Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8222-1	HA-18	77	82
LCS 880-110903/2-A	Lab Control Sample	75	75
LCSD 880-110903/3-A	Lab Control Sample Dup	116	116
MB 880-110903/1-A	Method Blank	102	107
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8222-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110874/5-A

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/23/25 15:41	05/27/25 18:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	05/23/25 15:41	05/27/25 18:59	1
1,4-Difluorobenzene (Surr)	72		70 - 130	05/23/25 15:41	05/27/25 18:59	1

Lab Sample ID: LCS 880-110874/1-A

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1181		mg/Kg		118	70 - 130
Toluene	0.100	0.1059		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1102		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2233		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1123		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-110874/2-A

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1179		mg/Kg		118	70 - 130	0	35
Toluene	0.100	0.1057		mg/Kg		106	70 - 130	0	35
Ethylbenzene	0.100	0.1108		mg/Kg		111	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2240		mg/Kg		112	70 - 130	0	35
o-Xylene	0.100	0.1135		mg/Kg		114	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8222-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-110903/1-A

Matrix: Solid

Analysis Batch: 111082

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/25 17:04	05/28/25 16:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/25 17:04	05/28/25 16:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/25 17:04	05/28/25 16:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/23/25 17:04	05/28/25 16:32	1
o-Terphenyl	107		70 - 130				05/23/25 17:04	05/28/25 16:32	1

Lab Sample ID: LCS 880-110903/2-A

Matrix: Solid

Analysis Batch: 111082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1154		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1096		mg/Kg		110	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	75		70 - 130				
o-Terphenyl	75		70 - 130				

Lab Sample ID: LCSD 880-110903/3-A

Matrix: Solid

Analysis Batch: 111082

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110903

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	915.0	*1	mg/Kg		92	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	1000	877.3	*1	mg/Kg		88	70 - 130	22	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	116		70 - 130						
o-Terphenyl	116		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110942/1-A

Matrix: Solid

Analysis Batch: 110947

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/27/25 11:16	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8222-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-110942/2-A

Matrix: Solid

Analysis Batch: 110947

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.1		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-110942/3-A

Matrix: Solid

Analysis Batch: 110947

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	261.0		mg/Kg		104	90 - 110	1	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8222-1
SDG: Lea County, NM

GC VOA

Prep Batch: 110874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8222-1	HA-18	Total/NA	Solid	5035	
MB 880-110874/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110874/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110874/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 111016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8222-1	HA-18	Total/NA	Solid	8021B	110874
MB 880-110874/5-A	Method Blank	Total/NA	Solid	8021B	110874
LCS 880-110874/1-A	Lab Control Sample	Total/NA	Solid	8021B	110874
LCSD 880-110874/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110874

Analysis Batch: 111041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8222-1	HA-18	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 110903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8222-1	HA-18	Total/NA	Solid	8015NM Prep	
MB 880-110903/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110903/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110903/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 111082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8222-1	HA-18	Total/NA	Solid	8015B NM	110903
MB 880-110903/1-A	Method Blank	Total/NA	Solid	8015B NM	110903
LCS 880-110903/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110903
LCSD 880-110903/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110903

Analysis Batch: 111149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8222-1	HA-18	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 110942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8222-1	HA-18	Soluble	Solid	DI Leach	
MB 880-110942/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110942/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110942/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 110947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8222-1	HA-18	Soluble	Solid	300.0	110942
MB 880-110942/1-A	Method Blank	Soluble	Solid	300.0	110942
LCS 880-110942/2-A	Lab Control Sample	Soluble	Solid	300.0	110942
LCSD 880-110942/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110942

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8222-1
SDG: Lea County, NM

Client Sample ID: HA-18
Date Collected: 05/22/25 12:55
Date Received: 05/22/25 15:57

Lab Sample ID: 890-8222-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110874	05/23/25 15:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111016	05/28/25 01:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111041	05/28/25 01:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			111149	05/28/25 23:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	110903	05/23/25 17:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111082	05/28/25 23:45	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110942	05/27/25 08:45	SA	EET MID
Soluble	Analysis	300.0		1			110947	05/27/25 15:41	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: Right Meow 31 CTB 7

Job ID: 890-8222-1
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	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8222-1
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: Right Meow 31 CTB 7

Job ID: 890-8222-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8222-1	HA-18	Solid	05/22/25 12:55	05/22/25 15:57	0.5

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- 2
- 3
- 4
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- 13
- 14



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 502-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3333
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199

Chain of Custody

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	jimoreno@earthsys.net

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
 Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
 Deliverables: EDD ☐ ADAPT ☐ Other:



[illegible]

Total 200.7 / 6010 200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zr
Hg: 163.1/245.1/7470/77

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 Xencio, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xencio will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xencio. A minimum charge of \$66.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xencio, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		5/22/15			

Excluded Date: 08/25/2020 Row: 2020

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8222-1

SDG Number: Lea County, NM

Login Number: 8222

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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: 890-8222-1

SDG Number: Lea County, NM

Login Number: 8222

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 05/23/25 03:10 PM

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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/29/2025 12:17:30 PM

JOB DESCRIPTION

Right Meow 31 CTB 7
Lea County, NM

JOB NUMBER

890-8221-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



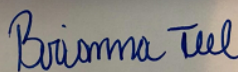
Eurofins Carlsbad

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



Generated
5/29/2025 12:17:30 PM

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

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Laboratory Job ID: 890-8221-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8221-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	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
MQL	Method Quantitation Limit
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)
RL	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

Case Narrative

Client: Earth Systems Response and Restoration
Project: Right Meow 31 CTB 7

Job ID: 890-8221-1

Job ID: 890-8221-1**Eurofins Carlsbad****Job Narrative
890-8221-1**

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 5/22/2025 3:57 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 0.3°C.

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-110903 and analytical batch 880-111082 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

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.

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8221-1
SDG: Lea County, NM

Client Sample ID: HA - 19

Lab Sample ID: 890-8221-1

Date Collected: 05/22/25 13:00

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/23/25 15:41	05/28/25 00:21	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/23/25 15:41	05/28/25 00:21	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/23/25 15:41	05/28/25 00:21	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/23/25 15:41	05/28/25 00:21	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/23/25 15:41	05/28/25 00:21	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/23/25 15:41	05/28/25 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/23/25 15:41	05/28/25 00:21	1
1,4-Difluorobenzene (Surr)	74		70 - 130	05/23/25 15:41	05/28/25 00:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/28/25 00:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/28/25 23:00	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	<49.8	U *1	49.8		mg/Kg		05/23/25 17:04	05/28/25 23:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		05/23/25 17:04	05/28/25 23:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/23/25 17:04	05/28/25 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	05/23/25 17:04	05/28/25 23:00	1
o-Terphenyl	81		70 - 130	05/23/25 17:04	05/28/25 23:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	526		9.90		mg/Kg			05/27/25 15:19	1

Client Sample ID: HA - 19

Lab Sample ID: 890-8221-2

Date Collected: 05/22/25 13:05

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/28/25 00:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/28/25 00:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/28/25 00:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/23/25 15:41	05/28/25 00:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/28/25 00:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/23/25 15:41	05/28/25 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	05/23/25 15:41	05/28/25 00:42	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8221-1
SDG: Lea County, NM

Client Sample ID: HA - 19

Lab Sample ID: 890-8221-2

Date Collected: 05/22/25 13:05

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	74		70 - 130	05/23/25 15:41	05/28/25 00:42	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			05/28/25 00:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/28/25 23:14	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	<49.9	U *1	49.9		mg/Kg		05/23/25 17:04	05/28/25 23:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		05/23/25 17:04	05/28/25 23:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/23/25 17:04	05/28/25 23:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				05/23/25 17:04	05/28/25 23:14	1
o-Terphenyl	84		70 - 130				05/23/25 17:04	05/28/25 23:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	214		10.1		mg/Kg			05/27/25 15:26	1

Client Sample ID: HA - 19

Lab Sample ID: 890-8221-3

Date Collected: 05/22/25 13:10

Matrix: Solid

Date Received: 05/22/25 15:57

Sample Depth: 2

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		05/23/25 15:41	05/28/25 01:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/23/25 15:41	05/28/25 01:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/23/25 15:41	05/28/25 01:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/23/25 15:41	05/28/25 01:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/23/25 15:41	05/28/25 01:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/23/25 15:41	05/28/25 01:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/23/25 15:41	05/28/25 01:02	1
1,4-Difluorobenzene (Surr)	75		70 - 130	05/23/25 15:41	05/28/25 01:02	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			05/28/25 01:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/28/25 23:31	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8221-1
SDG: Lea County, NM

Client Sample ID: HA - 19
Date Collected: 05/22/25 13:10
Date Received: 05/22/25 15:57
Sample Depth: 2

Lab Sample ID: 890-8221-3
Matrix: Solid

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	<49.7	U *1	49.7		mg/Kg		05/23/25 17:04	05/28/25 23:31	1	
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		05/23/25 17:04	05/28/25 23:31	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/23/25 17:04	05/28/25 23:31	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	74		70 - 130				05/23/25 17:04	05/28/25 23:31	1	
o-Terphenyl	77		70 - 130				05/23/25 17:04	05/28/25 23:31	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	108		9.92		mg/Kg			05/27/25 15:33	1	

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8221-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8221-1	HA - 19	107	74
890-8221-2	HA - 19	100	74
890-8221-3	HA - 19	104	75
LCS 880-110874/1-A	Lab Control Sample	103	86
LCSD 880-110874/2-A	Lab Control Sample Dup	101	86
MB 880-110874/5-A	Method Blank	94	72
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 Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8221-1	HA - 19	76	81
890-8221-2	HA - 19	77	84
890-8221-3	HA - 19	74	77
LCS 880-110903/2-A	Lab Control Sample	75	75
LCSD 880-110903/3-A	Lab Control Sample Dup	116	116
MB 880-110903/1-A	Method Blank	102	107
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8221-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110874/5-A

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/23/25 15:41	05/27/25 18:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/23/25 15:41	05/27/25 18:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	05/23/25 15:41	05/27/25 18:59	1
1,4-Difluorobenzene (Surr)	72		70 - 130	05/23/25 15:41	05/27/25 18:59	1

Lab Sample ID: LCS 880-110874/1-A

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110874

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1181		mg/Kg		118	70 - 130
Toluene	0.100	0.1059		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1102		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2233		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1123		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-110874/2-A

Matrix: Solid

Analysis Batch: 111016

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110874

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1179		mg/Kg		118	70 - 130	0	35
Toluene	0.100	0.1057		mg/Kg		106	70 - 130	0	35
Ethylbenzene	0.100	0.1108		mg/Kg		111	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2240		mg/Kg		112	70 - 130	0	35
o-Xylene	0.100	0.1135		mg/Kg		114	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8221-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-110903/1-A

Matrix: Solid

Analysis Batch: 111082

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 110903

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/23/25 17:04	05/28/25 16:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/23/25 17:04	05/28/25 16:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/23/25 17:04	05/28/25 16:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/23/25 17:04	05/28/25 16:32	1
o-Terphenyl	107		70 - 130				05/23/25 17:04	05/28/25 16:32	1

Lab Sample ID: LCS 880-110903/2-A

Matrix: Solid

Analysis Batch: 111082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 110903

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1154		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1096		mg/Kg		110	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	75		70 - 130				
o-Terphenyl	75		70 - 130				

Lab Sample ID: LCSD 880-110903/3-A

Matrix: Solid

Analysis Batch: 111082

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 110903

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	915.0	*1	mg/Kg		92	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	1000	877.3	*1	mg/Kg		88	70 - 130	22	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	116		70 - 130						
o-Terphenyl	116		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110942/1-A

Matrix: Solid

Analysis Batch: 110947

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/27/25 11:16	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8221-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-110942/2-A

Matrix: Solid

Analysis Batch: 110947

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.1		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-110942/3-A

Matrix: Solid

Analysis Batch: 110947

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	261.0		mg/Kg		104	90 - 110	1	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8221-1
SDG: Lea County, NM

GC VOA

Prep Batch: 110874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8221-1	HA - 19	Total/NA	Solid	5035	
890-8221-2	HA - 19	Total/NA	Solid	5035	
890-8221-3	HA - 19	Total/NA	Solid	5035	
MB 880-110874/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110874/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110874/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 111016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8221-1	HA - 19	Total/NA	Solid	8021B	110874
890-8221-2	HA - 19	Total/NA	Solid	8021B	110874
890-8221-3	HA - 19	Total/NA	Solid	8021B	110874
MB 880-110874/5-A	Method Blank	Total/NA	Solid	8021B	110874
LCS 880-110874/1-A	Lab Control Sample	Total/NA	Solid	8021B	110874
LCSD 880-110874/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110874

Analysis Batch: 111040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8221-1	HA - 19	Total/NA	Solid	Total BTEX	
890-8221-2	HA - 19	Total/NA	Solid	Total BTEX	
890-8221-3	HA - 19	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 110903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8221-1	HA - 19	Total/NA	Solid	8015NM Prep	
890-8221-2	HA - 19	Total/NA	Solid	8015NM Prep	
890-8221-3	HA - 19	Total/NA	Solid	8015NM Prep	
MB 880-110903/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110903/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110903/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 111082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8221-1	HA - 19	Total/NA	Solid	8015B NM	110903
890-8221-2	HA - 19	Total/NA	Solid	8015B NM	110903
890-8221-3	HA - 19	Total/NA	Solid	8015B NM	110903
MB 880-110903/1-A	Method Blank	Total/NA	Solid	8015B NM	110903
LCS 880-110903/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110903
LCSD 880-110903/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110903

Analysis Batch: 111148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8221-1	HA - 19	Total/NA	Solid	8015 NM	
890-8221-2	HA - 19	Total/NA	Solid	8015 NM	
890-8221-3	HA - 19	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8221-1
SDG: Lea County, NM

HPLC/IC

Leach Batch: 110942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8221-1	HA - 19	Soluble	Solid	DI Leach	
890-8221-2	HA - 19	Soluble	Solid	DI Leach	
890-8221-3	HA - 19	Soluble	Solid	DI Leach	
MB 880-110942/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110942/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110942/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 110947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8221-1	HA - 19	Soluble	Solid	300.0	110942
890-8221-2	HA - 19	Soluble	Solid	300.0	110942
890-8221-3	HA - 19	Soluble	Solid	300.0	110942
MB 880-110942/1-A	Method Blank	Soluble	Solid	300.0	110942
LCS 880-110942/2-A	Lab Control Sample	Soluble	Solid	300.0	110942
LCSD 880-110942/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110942

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8221-1
SDG: Lea County, NM

Client Sample ID: HA - 19

Lab Sample ID: 890-8221-1

Date Collected: 05/22/25 13:00

Matrix: Solid

Date Received: 05/22/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110874	05/23/25 15:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111016	05/28/25 00:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111040	05/28/25 00:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			111148	05/28/25 23:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110903	05/23/25 17:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111082	05/28/25 23:00	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110942	05/27/25 08:45	SA	EET MID
Soluble	Analysis	300.0		1			110947	05/27/25 15:19	CH	EET MID

Client Sample ID: HA - 19

Lab Sample ID: 890-8221-2

Date Collected: 05/22/25 13:05

Matrix: Solid

Date Received: 05/22/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	110874	05/23/25 15:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111016	05/28/25 00:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111040	05/28/25 00:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			111148	05/28/25 23:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	110903	05/23/25 17:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111082	05/28/25 23:14	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110942	05/27/25 08:45	SA	EET MID
Soluble	Analysis	300.0		1			110947	05/27/25 15:26	CH	EET MID

Client Sample ID: HA - 19

Lab Sample ID: 890-8221-3

Date Collected: 05/22/25 13:10

Matrix: Solid

Date Received: 05/22/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110874	05/23/25 15:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111016	05/28/25 01:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111040	05/28/25 01:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			111148	05/28/25 23:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110903	05/23/25 17:04	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111082	05/28/25 23:31	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110942	05/27/25 08:45	SA	EET MID
Soluble	Analysis	300.0		1			110947	05/27/25 15:33	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8221-1
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	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8221-1
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: Right Meow 31 CTB 7

Job ID: 890-8221-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8221-1	HA - 19	Solid	05/22/25 13:00	05/22/25 15:57	0.5
890-8221-2	HA - 19	Solid	05/22/25 13:05	05/22/25 15:57	1
890-8221-3	HA - 19	Solid	05/22/25 13:10	05/22/25 15:57	2

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8221-1

SDG Number: Lea County, NM

Login Number: 8221

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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: 890-8221-1

SDG Number: Lea County, NM

Login Number: 8221

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 05/23/25 03:10 PM

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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/29/2025 2:46:09 PM

JOB DESCRIPTION

Right Meow 31 CTB 7
Lea County, NM

JOB NUMBER

890-8843-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



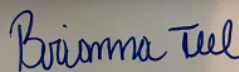
Eurofins Carlsbad

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



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9/29/2025 2:46:09 PM

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

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Laboratory Job ID: 890-8843-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
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
MQL	Method Quantitation Limit
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)
RL	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

Case Narrative

Client: Earth Systems Response and Restoration
Project: Right Meow 31 CTB 7

Job ID: 890-8843-1

Job ID: 890-8843-1

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Job Narrative 890-8843-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/23/2025 9:56 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 -17.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS - 1 (890-8843-1), CS - 2 (890-8843-2), CS - 3 (890-8843-3), CS - 4 (890-8843-4), CS - 5 (890-8843-5) and CS - 6 (890-8843-6).

The following samples analyzed for method <FRACTION_METHOD> were received and analyzed from an unpreserved bulk soil jar: CS - 1 (890-8843-1), CS - 2 (890-8843-2), CS - 3 (890-8843-3), CS - 4 (890-8843-4), CS - 5 (890-8843-5) and CS - 6 (890-8843-6).

The following samples were received and analyzed from an unpreserved bulk soil jar: CS - 1 (890-8843-1), CS - 2 (890-8843-2), CS - 3 (890-8843-3), CS - 4 (890-8843-4), CS - 5 (890-8843-5) and CS - 6 (890-8843-6).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-119649/3-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-119541 and analytical batch 880-119934 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The laboratory control sample (LCS) associated with preparation batch 880-119608 and analytical batch 880-119716 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
SDG: Lea County, NM

Client Sample ID: CS - 1

Lab Sample ID: 890-8843-1

Date Collected: 09/22/25 09:30

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

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		09/25/25 09:12	09/25/25 13:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/25/25 09:12	09/25/25 13:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/25/25 09:12	09/25/25 13:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/25/25 09:12	09/25/25 13:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/25/25 09:12	09/25/25 13:57	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/25/25 09:12	09/25/25 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	09/25/25 09:12	09/25/25 13:57	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/25/25 09:12	09/25/25 13:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/25/25 13:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/28/25 00:33	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	<49.9	U	49.9		mg/Kg		09/23/25 09:08	09/28/25 00:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		09/23/25 09:08	09/28/25 00:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/23/25 09:08	09/28/25 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	09/23/25 09:08	09/28/25 00:33	1
o-Terphenyl	109		70 - 130	09/23/25 09:08	09/28/25 00:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430	*-	9.98		mg/Kg			09/25/25 02:41	1

Client Sample ID: CS - 2

Lab Sample ID: 890-8843-2

Date Collected: 09/22/25 09:35

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

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		09/25/25 09:12	09/25/25 14:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/25/25 09:12	09/25/25 14:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/25/25 09:12	09/25/25 14:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/25/25 09:12	09/25/25 14:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/25/25 09:12	09/25/25 14:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/25/25 09:12	09/25/25 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/25/25 09:12	09/25/25 14:18	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
SDG: Lea County, NM

Client Sample ID: CS - 2

Lab Sample ID: 890-8843-2

Date Collected: 09/22/25 09:35

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	09/25/25 09:12	09/25/25 14:18	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			09/25/25 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/28/25 00:48	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		09/23/25 09:08	09/28/25 00:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		09/23/25 09:08	09/28/25 00:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/23/25 09:08	09/28/25 00:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				09/23/25 09:08	09/28/25 00:48	1
o-Terphenyl	109		70 - 130				09/23/25 09:08	09/28/25 00:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3360	*-	49.6		mg/Kg			09/25/25 02:46	5

Client Sample ID: CS - 3

Lab Sample ID: 890-8843-3

Date Collected: 09/22/25 09:40

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 14:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 14:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 14:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/25/25 09:12	09/25/25 14:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 14:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/25/25 09:12	09/25/25 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/25/25 09:12	09/25/25 14:38	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/25/25 09:12	09/25/25 14:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/25/25 14:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/28/25 01:04	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
SDG: Lea County, NM

Client Sample ID: CS - 3

Lab Sample ID: 890-8843-3

Date Collected: 09/22/25 09:40

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

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	<49.8	U	49.8		mg/Kg		09/23/25 09:08	09/28/25 01:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		09/23/25 09:08	09/28/25 01:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/23/25 09:08	09/28/25 01:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				09/23/25 09:08	09/28/25 01:04	1
o-Terphenyl	108		70 - 130				09/23/25 09:08	09/28/25 01:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3220	*-	49.7		mg/Kg			09/25/25 02:52	5

Client Sample ID: CS - 4

Lab Sample ID: 890-8843-4

Date Collected: 09/22/25 09:45

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 14:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 14:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 14:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/25/25 09:12	09/25/25 14:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 14:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/25/25 09:12	09/25/25 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				09/25/25 09:12	09/25/25 14:59	1
1,4-Difluorobenzene (Surr)	94		70 - 130				09/25/25 09:12	09/25/25 14:59	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			09/25/25 14:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/28/25 01:18	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		09/23/25 09:08	09/28/25 01:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		09/23/25 09:08	09/28/25 01:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/23/25 09:08	09/28/25 01:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				09/23/25 09:08	09/28/25 01:18	1
o-Terphenyl	103		70 - 130				09/23/25 09:08	09/28/25 01:18	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
SDG: Lea County, NM

Client Sample ID: CS - 4

Lab Sample ID: 890-8843-4

Date Collected: 09/22/25 09:45

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2940	*-	49.7		mg/Kg			09/25/25 02:57	5

Client Sample ID: CS - 5

Lab Sample ID: 890-8843-5

Date Collected: 09/22/25 09:50

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

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		09/25/25 09:12	09/25/25 16:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/25/25 09:12	09/25/25 16:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/25/25 09:12	09/25/25 16:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/25/25 09:12	09/25/25 16:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/25/25 09:12	09/25/25 16:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/25/25 09:12	09/25/25 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				09/25/25 09:12	09/25/25 16:33	1
1,4-Difluorobenzene (Surr)	98		70 - 130				09/25/25 09:12	09/25/25 16:33	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			09/25/25 16:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/28/25 03:20	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	<49.9	U	49.9		mg/Kg		09/24/25 10:13	09/28/25 03:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/24/25 10:13	09/28/25 03:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/24/25 10:13	09/28/25 03:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				09/24/25 10:13	09/28/25 03:20	1
o-Terphenyl	78		70 - 130				09/24/25 10:13	09/28/25 03:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4940	*-	49.9		mg/Kg			09/25/25 03:02	5

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
SDG: Lea County, NM

Client Sample ID: CS - 6

Lab Sample ID: 890-8843-6

Date Collected: 09/22/25 09:55

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 16:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 16:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 16:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/25/25 09:12	09/25/25 16:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 16:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/25/25 09:12	09/25/25 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/25/25 09:12	09/25/25 16:53	1
1,4-Difluorobenzene (Surr)	99		70 - 130	09/25/25 09:12	09/25/25 16:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/25/25 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/28/25 04:05	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	<49.9	U	49.9		mg/Kg		09/24/25 10:13	09/28/25 04:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/24/25 10:13	09/28/25 04:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/24/25 10:13	09/28/25 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	09/24/25 10:13	09/28/25 04:05	1
o-Terphenyl	82		70 - 130	09/24/25 10:13	09/28/25 04:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	364	*-	9.92		mg/Kg			09/25/25 03:18	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8843-1	CS - 1	98	96
890-8843-2	CS - 2	100	94
890-8843-3	CS - 3	102	95
890-8843-4	CS - 4	100	94
890-8843-5	CS - 5	101	98
890-8843-6	CS - 6	101	99
LCS 880-119751/1-A	Lab Control Sample	116	96
LCSD 880-119751/2-A	Lab Control Sample Dup	114	102
MB 880-119751/5-A	Method Blank	85	101
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 Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8843-1	CS - 1	106	109
890-8843-2	CS - 2	108	109
890-8843-3	CS - 3	106	108
890-8843-4	CS - 4	102	103
890-8843-5	CS - 5	78	78
890-8843-5 MS	CS - 5	90	81
890-8843-5 MSD	CS - 5	91	81
890-8843-6	CS - 6	82	82
LCS 880-119541/2-A	Lab Control Sample	106	121
LCS 880-119649/2-A	Lab Control Sample	110	124
LCSD 880-119541/3-A	Lab Control Sample Dup	102	94
LCSD 880-119649/3-A	Lab Control Sample Dup	133 S1+	123
MB 880-119541/1-A	Method Blank	92	94
MB 880-119649/1-A	Method Blank	79	82
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-119751/5-A

Matrix: Solid

Analysis Batch: 119726

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/25/25 09:12	09/25/25 11:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	09/25/25 09:12	09/25/25 11:32	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/25/25 09:12	09/25/25 11:32	1

Lab Sample ID: LCS 880-119751/1-A

Matrix: Solid

Analysis Batch: 119726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119751

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1224		mg/Kg		122	70 - 130
Toluene	0.100	0.1164		mg/Kg		116	70 - 130
Ethylbenzene	0.100	0.1204		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2378		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1197		mg/Kg		120	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-119751/2-A

Matrix: Solid

Analysis Batch: 119726

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119751

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1166		mg/Kg		117	70 - 130	5	35
Toluene	0.100	0.1074		mg/Kg		107	70 - 130	8	35
Ethylbenzene	0.100	0.1113		mg/Kg		111	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2213		mg/Kg		111	70 - 130	7	35
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-119541/1-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/23/25 09:08	09/27/25 18:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/23/25 09:08	09/27/25 18:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/23/25 09:08	09/27/25 18:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	09/23/25 09:08	09/27/25 18:30	1
o-Terphenyl	94		70 - 130	09/23/25 09:08	09/27/25 18:30	1

Lab Sample ID: LCS 880-119541/2-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1023		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1193		mg/Kg		119	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: LCSD 880-119541/3-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119541

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	873.4		mg/Kg		87	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	893.7	*1	mg/Kg		89	70 - 130	29	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: MB 880-119649/1-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119649

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 02:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 02:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 02:34	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-119649/1-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119649

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	79		70 - 130	09/24/25 10:13	09/28/25 02:34	1			
o-Terphenyl	82		70 - 130	09/24/25 10:13	09/28/25 02:34	1			

Lab Sample ID: LCS 880-119649/2-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119649

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1188		mg/Kg		119	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1252		mg/Kg		125	70 - 130		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	110		70 - 130								
o-Terphenyl	124		70 - 130								

Lab Sample ID: LCSD 880-119649/3-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119649

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1165		mg/Kg		116	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1163		mg/Kg		116	70 - 130	7	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	133	S1+	70 - 130								
o-Terphenyl	123		70 - 130								

Lab Sample ID: 890-8843-5 MS

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: CS - 5

Prep Type: Total/NA

Prep Batch: 119649

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	978.0		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	920.3		mg/Kg		92	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	90		70 - 130								
o-Terphenyl	81		70 - 130								

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
SDG: Lea County, NM

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

Lab Sample ID: 890-8843-5 MSD

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: CS - 5

Prep Type: Total/NA

Prep Batch: 119649

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1004		mg/Kg		99	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	936.2		mg/Kg		94	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	91		70 - 130								
o-Terphenyl	81		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-119608/1-A

Matrix: Solid

Analysis Batch: 119716

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			09/25/25 01:33	1

Lab Sample ID: LCS 880-119608/2-A

Matrix: Solid

Analysis Batch: 119716

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	250	212.7	*-	mg/Kg		85	90 - 110			

Lab Sample ID: LCSD 880-119608/3-A

Matrix: Solid

Analysis Batch: 119716

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	254.6		mg/Kg		102	90 - 110	18	20

Lab Sample ID: 890-8843-5 MS

Matrix: Solid

Analysis Batch: 119716

Client Sample ID: CS - 5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4940	*-	1250	6197		mg/Kg		101	90 - 110		

Lab Sample ID: 890-8843-5 MSD

Matrix: Solid

Analysis Batch: 119716

Client Sample ID: CS - 5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4940	*-	1250	6211		mg/Kg		102	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 119726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8843-1	CS - 1	Total/NA	Solid	8021B	119751
890-8843-2	CS - 2	Total/NA	Solid	8021B	119751
890-8843-3	CS - 3	Total/NA	Solid	8021B	119751
890-8843-4	CS - 4	Total/NA	Solid	8021B	119751
890-8843-5	CS - 5	Total/NA	Solid	8021B	119751
890-8843-6	CS - 6	Total/NA	Solid	8021B	119751
MB 880-119751/5-A	Method Blank	Total/NA	Solid	8021B	119751
LCS 880-119751/1-A	Lab Control Sample	Total/NA	Solid	8021B	119751
LCSD 880-119751/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	119751

Prep Batch: 119751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8843-1	CS - 1	Total/NA	Solid	5035	
890-8843-2	CS - 2	Total/NA	Solid	5035	
890-8843-3	CS - 3	Total/NA	Solid	5035	
890-8843-4	CS - 4	Total/NA	Solid	5035	
890-8843-5	CS - 5	Total/NA	Solid	5035	
890-8843-6	CS - 6	Total/NA	Solid	5035	
MB 880-119751/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-119751/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-119751/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 119874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8843-1	CS - 1	Total/NA	Solid	Total BTEX	
890-8843-2	CS - 2	Total/NA	Solid	Total BTEX	
890-8843-3	CS - 3	Total/NA	Solid	Total BTEX	
890-8843-4	CS - 4	Total/NA	Solid	Total BTEX	
890-8843-5	CS - 5	Total/NA	Solid	Total BTEX	
890-8843-6	CS - 6	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 119541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8843-1	CS - 1	Total/NA	Solid	8015NM Prep	
890-8843-2	CS - 2	Total/NA	Solid	8015NM Prep	
890-8843-3	CS - 3	Total/NA	Solid	8015NM Prep	
890-8843-4	CS - 4	Total/NA	Solid	8015NM Prep	
MB 880-119541/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-119541/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-119541/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 119649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8843-5	CS - 5	Total/NA	Solid	8015NM Prep	
890-8843-6	CS - 6	Total/NA	Solid	8015NM Prep	
MB 880-119649/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-119649/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-119649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8843-5 MS	CS - 5	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 119649 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8843-5 MSD	CS - 5	Total/NA	Solid	8015NM Prep	

Analysis Batch: 119934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8843-1	CS - 1	Total/NA	Solid	8015B NM	119541
890-8843-2	CS - 2	Total/NA	Solid	8015B NM	119541
890-8843-3	CS - 3	Total/NA	Solid	8015B NM	119541
890-8843-4	CS - 4	Total/NA	Solid	8015B NM	119541
890-8843-5	CS - 5	Total/NA	Solid	8015B NM	119649
890-8843-6	CS - 6	Total/NA	Solid	8015B NM	119649
MB 880-119541/1-A	Method Blank	Total/NA	Solid	8015B NM	119541
MB 880-119649/1-A	Method Blank	Total/NA	Solid	8015B NM	119649
LCS 880-119541/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	119541
LCS 880-119649/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	119649
LCSD 880-119541/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	119541
LCSD 880-119649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	119649
890-8843-5 MS	CS - 5	Total/NA	Solid	8015B NM	119649
890-8843-5 MSD	CS - 5	Total/NA	Solid	8015B NM	119649

Analysis Batch: 119994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8843-1	CS - 1	Total/NA	Solid	8015 NM	
890-8843-2	CS - 2	Total/NA	Solid	8015 NM	
890-8843-3	CS - 3	Total/NA	Solid	8015 NM	
890-8843-4	CS - 4	Total/NA	Solid	8015 NM	
890-8843-5	CS - 5	Total/NA	Solid	8015 NM	
890-8843-6	CS - 6	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 119608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8843-1	CS - 1	Soluble	Solid	DI Leach	
890-8843-2	CS - 2	Soluble	Solid	DI Leach	
890-8843-3	CS - 3	Soluble	Solid	DI Leach	
890-8843-4	CS - 4	Soluble	Solid	DI Leach	
890-8843-5	CS - 5	Soluble	Solid	DI Leach	
890-8843-6	CS - 6	Soluble	Solid	DI Leach	
MB 880-119608/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-119608/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-119608/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8843-5 MS	CS - 5	Soluble	Solid	DI Leach	
890-8843-5 MSD	CS - 5	Soluble	Solid	DI Leach	

Analysis Batch: 119716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8843-1	CS - 1	Soluble	Solid	300.0	119608
890-8843-2	CS - 2	Soluble	Solid	300.0	119608
890-8843-3	CS - 3	Soluble	Solid	300.0	119608
890-8843-4	CS - 4	Soluble	Solid	300.0	119608
890-8843-5	CS - 5	Soluble	Solid	300.0	119608

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 119716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8843-6	CS - 6	Soluble	Solid	300.0	119608
MB 880-119608/1-A	Method Blank	Soluble	Solid	300.0	119608
LCS 880-119608/2-A	Lab Control Sample	Soluble	Solid	300.0	119608
LCSD 880-119608/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	119608
890-8843-5 MS	CS - 5	Soluble	Solid	300.0	119608
890-8843-5 MSD	CS - 5	Soluble	Solid	300.0	119608

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
SDG: Lea County, NM

Client Sample ID: CS - 1**Lab Sample ID: 890-8843-1****Date Collected: 09/22/25 09:30****Matrix: Solid****Date Received: 09/23/25 09:56**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 13:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119874	09/25/25 13:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			119994	09/28/25 00:33	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	119541	09/23/25 09:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/28/25 00:33	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	119716	09/25/25 02:41	CS	EET MID

Client Sample ID: CS - 2**Lab Sample ID: 890-8843-2****Date Collected: 09/22/25 09:35****Matrix: Solid****Date Received: 09/23/25 09:56**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 14:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119874	09/25/25 14:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			119994	09/28/25 00:48	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	119541	09/23/25 09:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/28/25 00:48	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	119716	09/25/25 02:46	CS	EET MID

Client Sample ID: CS - 3**Lab Sample ID: 890-8843-3****Date Collected: 09/22/25 09:40****Matrix: Solid****Date Received: 09/23/25 09:56**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 14:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119874	09/25/25 14:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			119994	09/28/25 01:04	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	119541	09/23/25 09:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/28/25 01:04	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	119716	09/25/25 02:52	CS	EET MID

Client Sample ID: CS - 4**Lab Sample ID: 890-8843-4****Date Collected: 09/22/25 09:45****Matrix: Solid****Date Received: 09/23/25 09:56**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 14:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119874	09/25/25 14:59	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
SDG: Lea County, NM

Client Sample ID: CS - 4**Lab Sample ID: 890-8843-4****Date Collected: 09/22/25 09:45****Matrix: Solid****Date Received: 09/23/25 09:56**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			119994	09/28/25 01:18	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	119541	09/23/25 09:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/28/25 01:18	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	119716	09/25/25 02:57	CS	EET MID

Client Sample ID: CS - 5**Lab Sample ID: 890-8843-5****Date Collected: 09/22/25 09:50****Matrix: Solid****Date Received: 09/23/25 09:56**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 16:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119874	09/25/25 16:33	AJ	EET MID
Total/NA	Analysis	8015 NM		1			119994	09/28/25 03:20	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	119649	09/24/25 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/28/25 03:20	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	119716	09/25/25 03:02	CS	EET MID

Client Sample ID: CS - 6**Lab Sample ID: 890-8843-6****Date Collected: 09/22/25 09:55****Matrix: Solid****Date Received: 09/23/25 09:56**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 16:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119874	09/25/25 16:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			119994	09/28/25 04:05	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	119649	09/24/25 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/28/25 04:05	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	119716	09/25/25 03:18	CS	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
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	NELAP	T104704400	06-30-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
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

Eurofins Carlsbad

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8843-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8843-1	CS - 1	Solid	09/22/25 09:30	09/23/25 09:56	0.5
890-8843-2	CS - 2	Solid	09/22/25 09:35	09/23/25 09:56	0.5
890-8843-3	CS - 3	Solid	09/22/25 09:40	09/23/25 09:56	0.5
890-8843-4	CS - 4	Solid	09/22/25 09:45	09/23/25 09:56	0.5
890-8843-5	CS - 5	Solid	09/22/25 09:50	09/23/25 09:56	0.5
890-8843-6	CS - 6	Solid	09/22/25 09:55	09/23/25 09:56	0.5

- 1
- 2
- 3
- 4
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- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmorano@earthsys.net

Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Right Meow 31 CTB 7	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST		Preservative Codes	
Project Number:	343							None: NO DI Water: H ₂ O	
Project Location:	Lea County, NM	Due Date:	Routine TAT					Cool: Cool MeOH: Me	
Sampler's Name:	Santiago Gilron	TAT starts the day received by the lab, if received by 4:30pm							HCL: HC HNO ₃ : HN
CCMO #:	21574502							H ₂ SO ₄ : H ₂ NaOH: Na	
SAMPLE RECEIPT	Temp Blank: Yes (No) Wet Ice: Yes (No)							H ₃ PO ₄ : HP	
Samples Received Inact:	Yes (No) Thermometer ID: TMM 007							NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes (No) Correction Factor: -2							Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes (No) Temperature Reading: -17.4							Zn Acetate+NaOH: Zn	
Total Containers:	Yes (No) Corrected Temperature: -17.4							NaOH+Ascorbic Acid: SAPC	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH -NM	Sample Comments	
CS-1	S	9.22.25	9:30	0.5	Comp 1	1	X	Incident Number	
CS-2	S	9.22.25	9:35	0.5	Comp 1	1	X	nAPP2511547307	
CS-3	S	9.22.25	9:40	0.5	Comp 1	1	X		
CS-4	S	9.22.25	9:45	0.5	Comp 1	1	X		
CS-5	S	9.22.25	9:50	0.5	Comp 1	1	X		
CS-6	S	9.22.25	9:55	0.5	Comp 1	1	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Method(s) to be analyzed: 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. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		9/23/25 9:50			

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8843-1

SDG Number: Lea County, NM

Login Number: 8843**List Number: 1****Creator: Bruns, Shannon****List Source: Eurofins Carlsbad**

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: 890-8843-1

SDG Number: Lea County, NM

Login Number: 8843**List Number: 2****Creator: Rios, Minerva****List Source: Eurofins Midland****List Creation: 09/24/25 09:06 AM**

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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/29/2025 1:28:40 PM

JOB DESCRIPTION

Right Meow 31 CTB 7
Lea County, NM

JOB NUMBER

890-8844-1

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1089 N Canal St.
Carlsbad NM 88220



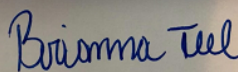
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Job Notes

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



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Authorized for release by
Brianna Teel, Project Manager
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(432)704-5440

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Laboratory Job ID: 890-8844-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8844-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
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
MQL	Method Quantitation Limit
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)
RL	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

Case Narrative

Client: Earth Systems Response and Restoration
Project: Right Meow 31 CTB 7

Job ID: 890-8844-1

Job ID: 890-8844-1

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Job Narrative 890-8844-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/23/2025 9:56 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 -17.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS - 7 (890-8844-1) and CS - 8 (890-8844-2).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-119649/3-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The laboratory control sample (LCS) associated with preparation batch 880-119608 and analytical batch 880-119716 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8844-1
SDG: Lea County, NM

Client Sample ID: CS - 7

Lab Sample ID: 890-8844-1

Date Collected: 09/22/25 10:00

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/25/25 09:12	09/25/25 17:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/25/25 09:12	09/25/25 17:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/25/25 09:12	09/25/25 17:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/25/25 09:12	09/25/25 17:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/25/25 09:12	09/25/25 17:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/25/25 09:12	09/25/25 17:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09/25/25 09:12	09/25/25 17:14	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/25/25 09:12	09/25/25 17:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/25/25 17:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/28/25 04:20	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		09/24/25 10:13	09/28/25 04:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 04:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 04:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	09/24/25 10:13	09/28/25 04:20	1
o-Terphenyl	82		70 - 130	09/24/25 10:13	09/28/25 04:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	914	*-	9.96		mg/Kg			09/25/25 03:23	1

Client Sample ID: CS - 8

Lab Sample ID: 890-8844-2

Date Collected: 09/22/25 10:05

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 2

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		09/25/25 09:12	09/25/25 17:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/25/25 09:12	09/25/25 17:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/25/25 09:12	09/25/25 17:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/25/25 09:12	09/25/25 17:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/25/25 09:12	09/25/25 17:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/25/25 09:12	09/25/25 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/25/25 09:12	09/25/25 17:34	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8844-1
SDG: Lea County, NM

Client Sample ID: CS - 8

Lab Sample ID: 890-8844-2

Date Collected: 09/22/25 10:05

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	09/25/25 09:12	09/25/25 17:34	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			09/25/25 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/28/25 04:36	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	<49.9	U	49.9		mg/Kg		09/24/25 10:13	09/28/25 04:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/24/25 10:13	09/28/25 04:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/24/25 10:13	09/28/25 04:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				09/24/25 10:13	09/28/25 04:36	1
o-Terphenyl	80		70 - 130				09/24/25 10:13	09/28/25 04:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4790	*-	49.9		mg/Kg			09/25/25 03:39	5

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8844-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8844-1	CS - 7	100	96
890-8844-2	CS - 8	104	99
LCS 880-119751/1-A	Lab Control Sample	116	96
LCSD 880-119751/2-A	Lab Control Sample Dup	114	102
MB 880-119751/5-A	Method Blank	85	101
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 Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8844-1	CS - 7	82	82
890-8844-2	CS - 8	80	80
LCS 880-119649/2-A	Lab Control Sample	110	124
LCSD 880-119649/3-A	Lab Control Sample Dup	133 S1+	123
MB 880-119649/1-A	Method Blank	79	82
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8844-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-119751/5-A

Matrix: Solid

Analysis Batch: 119726

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/25/25 09:12	09/25/25 11:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	09/25/25 09:12	09/25/25 11:32	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/25/25 09:12	09/25/25 11:32	1

Lab Sample ID: LCS 880-119751/1-A

Matrix: Solid

Analysis Batch: 119726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119751

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1224		mg/Kg		122	70 - 130
Toluene	0.100	0.1164		mg/Kg		116	70 - 130
Ethylbenzene	0.100	0.1204		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2378		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1197		mg/Kg		120	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-119751/2-A

Matrix: Solid

Analysis Batch: 119726

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119751

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1166		mg/Kg		117	70 - 130	5	35
Toluene	0.100	0.1074		mg/Kg		107	70 - 130	8	35
Ethylbenzene	0.100	0.1113		mg/Kg		111	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2213		mg/Kg		111	70 - 130	7	35
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8844-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-119649/1-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119649

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 02:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 02:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 02:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				09/24/25 10:13	09/28/25 02:34	1
o-Terphenyl	82		70 - 130				09/24/25 10:13	09/28/25 02:34	1

Lab Sample ID: LCS 880-119649/2-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119649

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1188		mg/Kg		119	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1252		mg/Kg		125	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	110		70 - 130				
o-Terphenyl	124		70 - 130				

Lab Sample ID: LCSD 880-119649/3-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119649

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1165		mg/Kg		116	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1163		mg/Kg		116	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	133	S1+	70 - 130						
o-Terphenyl	123		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-119608/1-A

Matrix: Solid

Analysis Batch: 119716

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			09/25/25 01:33	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8844-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-119608/2-A				Client Sample ID: Lab Control Sample						
Matrix: Solid				Prep Type: Soluble						
Analysis Batch: 119716										
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	250	212.7	*-	mg/Kg		85	90 - 110			

Lab Sample ID: LCSD 880-119608/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Solid				Prep Type: Soluble						
Analysis Batch: 119716										
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	250	254.6		mg/Kg		102	90 - 110	18	20	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8844-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 119726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8844-1	CS - 7	Total/NA	Solid	8021B	119751
890-8844-2	CS - 8	Total/NA	Solid	8021B	119751
MB 880-119751/5-A	Method Blank	Total/NA	Solid	8021B	119751
LCS 880-119751/1-A	Lab Control Sample	Total/NA	Solid	8021B	119751
LCSD 880-119751/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	119751

Prep Batch: 119751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8844-1	CS - 7	Total/NA	Solid	5035	
890-8844-2	CS - 8	Total/NA	Solid	5035	
MB 880-119751/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-119751/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-119751/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 119875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8844-1	CS - 7	Total/NA	Solid	Total BTEX	
890-8844-2	CS - 8	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 119649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8844-1	CS - 7	Total/NA	Solid	8015NM Prep	
890-8844-2	CS - 8	Total/NA	Solid	8015NM Prep	
MB 880-119649/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-119649/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-119649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 119934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8844-1	CS - 7	Total/NA	Solid	8015B NM	119649
890-8844-2	CS - 8	Total/NA	Solid	8015B NM	119649
MB 880-119649/1-A	Method Blank	Total/NA	Solid	8015B NM	119649
LCS 880-119649/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	119649
LCSD 880-119649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	119649

Analysis Batch: 119995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8844-1	CS - 7	Total/NA	Solid	8015 NM	
890-8844-2	CS - 8	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 119608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8844-1	CS - 7	Soluble	Solid	DI Leach	
890-8844-2	CS - 8	Soluble	Solid	DI Leach	
MB 880-119608/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-119608/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-119608/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8844-1
SDG: Lea County, NM

HPLC/IC

Analysis Batch: 119716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8844-1	CS - 7	Soluble	Solid	300.0	119608
890-8844-2	CS - 8	Soluble	Solid	300.0	119608
MB 880-119608/1-A	Method Blank	Soluble	Solid	300.0	119608
LCS 880-119608/2-A	Lab Control Sample	Soluble	Solid	300.0	119608
LCSD 880-119608/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	119608

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8844-1
SDG: Lea County, NM

Client Sample ID: CS - 7

Lab Sample ID: 890-8844-1

Date Collected: 09/22/25 10:00

Matrix: Solid

Date Received: 09/23/25 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 17:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119875	09/25/25 17:14	AJ	EET MID
Total/NA	Analysis	8015 NM		1			119995	09/28/25 04:20	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	119649	09/24/25 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/28/25 04:20	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	119716	09/25/25 03:23	CS	EET MID

Client Sample ID: CS - 8

Lab Sample ID: 890-8844-2

Date Collected: 09/22/25 10:05

Matrix: Solid

Date Received: 09/23/25 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 17:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119875	09/25/25 17:34	AJ	EET MID
Total/NA	Analysis	8015 NM		1			119995	09/28/25 04:36	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	119649	09/24/25 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/28/25 04:36	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	119716	09/25/25 03:39	CS	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: Right Meow 31 CTB 7

Job ID: 890-8844-1
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	NELAP	T104704400	06-30-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8844-1
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: Right Meow 31 CTB 7

Job ID: 890-8844-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8844-1	CS - 7	Solid	09/22/25 10:00	09/23/25 09:56	2
890-8844-2	CS - 8	Solid	09/22/25 10:05	09/23/25 09:56	2

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Environment Testing
Xenco

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) 998-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmoreno@earthsys.net

Work Order Comments	
Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____	

Project Name:	Right Meow 31 CTB 7	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes					
Project Number:	343																None: NO DI Water: H ₂ O					
Project Location:	Lea County, NM	Due Date:	Routine TAT														Cool: Cool MeOH: Me					
Sampler's Name:	Santiago Giron	TAT starts the day received by the lab. If received by 4:30pm															HCL: HC HNO ₃ : HN					
CCMO #:	21574502																H ₂ SO ₄ : H ₂ NaOH: Na					
SAMPLE RECEIPT	Temp Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Well Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>															H ₃ PO ₄ : HP					
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	7110001														NaHSO ₄ : NABIS					
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor:	-2														Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading:	-17.6														Zn Acetate+NaOH: Zn					
Total Containers:		Corrected Temperature:	-17.4														NaOH+Ascorbic Acid: SAPC					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush											Sample Comments
	CS-7	S	9.22.25	10:00	2	Comp	1	X	X	X							Incident Number					
	CS-8	S	9.22.25	10:05	2	Comp	1	X	X	X							NAPP2511547307					

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed																																
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. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		9/23/25 9:56 ²			

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8844-1

SDG Number: Lea County, NM

Login Number: 8844

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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: 890-8844-1

SDG Number: Lea County, NM

Login Number: 8844

List Number: 2

Creator: Rios, Minerva

List Source: Eurofins Midland

List Creation: 09/24/25 09:07 AM

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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/29/2025 1:29:21 PM

JOB DESCRIPTION

Right Meow 31 CTB 7
Lea County, NM

JOB NUMBER

890-8845-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



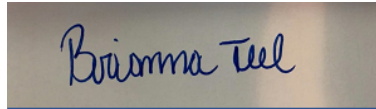
Eurofins Carlsbad

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



Generated
9/29/2025 1:29:21 PM

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

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Laboratory Job ID: 890-8845-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8845-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
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
MQL	Method Quantitation Limit
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)
RL	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

Case Narrative

Client: Earth Systems Response and Restoration
Project: Right Meow 31 CTB 7

Job ID: 890-8845-1

Job ID: 890-8845-1

Eurofins Carlsbad

Job Narrative 890-8845-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/23/2025 9:56 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 -17.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS - 9 (890-8845-1), CS - 10 (890-8845-2), CS - 11 (890-8845-3) and CS - 12 (890-8845-4).

The following samples were received and analyzed from an unpreserved bulk soil jar: CS - 9 (890-8845-1), CS - 10 (890-8845-2), CS - 11 (890-8845-3) and CS - 12 (890-8845-4).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-119649/3-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The laboratory control sample (LCS) associated with preparation batch 880-119608 and analytical batch 880-119716 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8845-1
SDG: Lea County, NM

Client Sample ID: CS - 9

Lab Sample ID: 890-8845-1

Date Collected: 09/22/25 10:10

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/25/25 09:12	09/25/25 17:55	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/25/25 09:12	09/25/25 17:55	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/25/25 09:12	09/25/25 17:55	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/25/25 09:12	09/25/25 17:55	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/25/25 09:12	09/25/25 17:55	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/25/25 09:12	09/25/25 17:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	09/25/25 09:12	09/25/25 17:55	1
1,4-Difluorobenzene (Surr)	98		70 - 130	09/25/25 09:12	09/25/25 17:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/25/25 17:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/28/25 04:51	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		09/24/25 10:13	09/28/25 04:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 04:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 04:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	09/24/25 10:13	09/28/25 04:51	1
o-Terphenyl	83		70 - 130	09/24/25 10:13	09/28/25 04:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1490	*-	10.0		mg/Kg			09/25/25 03:44	1

Client Sample ID: CS - 10

Lab Sample ID: 890-8845-2

Date Collected: 09/22/25 10:15

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 18:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 18:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 18:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/25/25 09:12	09/25/25 18:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 18:15	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/25/25 09:12	09/25/25 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/25/25 09:12	09/25/25 18:15	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8845-1
SDG: Lea County, NM

Client Sample ID: CS - 10

Lab Sample ID: 890-8845-2

Date Collected: 09/22/25 10:15

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	09/25/25 09:12	09/25/25 18:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/25/25 18:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/28/25 05:05	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	<49.8	U	49.8		mg/Kg		09/24/25 10:13	09/28/25 05:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/24/25 10:13	09/28/25 05:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/24/25 10:13	09/28/25 05:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				09/24/25 10:13	09/28/25 05:05	1
o-Terphenyl	82		70 - 130				09/24/25 10:13	09/28/25 05:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2580	*-	50.1		mg/Kg			09/25/25 03:49	5

Client Sample ID: CS - 11

Lab Sample ID: 890-8845-3

Date Collected: 09/22/25 10:20

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/25/25 09:12	09/25/25 18:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/25/25 09:12	09/25/25 18:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/25/25 09:12	09/25/25 18:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/25/25 09:12	09/25/25 18:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/25/25 09:12	09/25/25 18:36	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/25/25 09:12	09/25/25 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/25/25 09:12	09/25/25 18:36	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/25/25 09:12	09/25/25 18:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/25/25 18:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/28/25 05:21	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8845-1
SDG: Lea County, NM

Client Sample ID: CS - 11

Lab Sample ID: 890-8845-3

Date Collected: 09/22/25 10:20

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

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	<49.9	U	49.9		mg/Kg		09/24/25 10:13	09/28/25 05:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/24/25 10:13	09/28/25 05:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/24/25 10:13	09/28/25 05:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				09/24/25 10:13	09/28/25 05:21	1
o-Terphenyl	81		70 - 130				09/24/25 10:13	09/28/25 05:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2630	*-	49.7		mg/Kg			09/25/25 03:54	5

Client Sample ID: CS - 12

Lab Sample ID: 890-8845-4

Date Collected: 09/22/25 10:25

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 18:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 18:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 18:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/25/25 09:12	09/25/25 18:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 18:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/25/25 09:12	09/25/25 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				09/25/25 09:12	09/25/25 18:56	1
1,4-Difluorobenzene (Surr)	100		70 - 130				09/25/25 09:12	09/25/25 18:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/25/25 18:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/28/25 05:36	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		09/24/25 10:13	09/28/25 05:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 05:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 05:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				09/24/25 10:13	09/28/25 05:36	1
o-Terphenyl	85		70 - 130				09/24/25 10:13	09/28/25 05:36	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8845-1
SDG: Lea County, NM

Client Sample ID: CS - 12
Date Collected: 09/22/25 10:25
Date Received: 09/23/25 09:56
Sample Depth: 0.5

Lab Sample ID: 890-8845-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2630	*-	50.5		mg/Kg			09/25/25 04:00	5

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8845-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8845-1	CS - 9	103	98
890-8845-2	CS - 10	99	96
890-8845-3	CS - 11	101	97
890-8845-4	CS - 12	103	100
LCS 880-119751/1-A	Lab Control Sample	116	96
LCSD 880-119751/2-A	Lab Control Sample Dup	114	102
MB 880-119751/5-A	Method Blank	85	101
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 Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8845-1	CS - 9	83	83
890-8845-2	CS - 10	82	82
890-8845-3	CS - 11	80	81
890-8845-4	CS - 12	84	85
LCS 880-119649/2-A	Lab Control Sample	110	124
LCSD 880-119649/3-A	Lab Control Sample Dup	133 S1+	123
MB 880-119649/1-A	Method Blank	79	82
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8845-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-119751/5-A

Matrix: Solid

Analysis Batch: 119726

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/25/25 09:12	09/25/25 11:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	09/25/25 09:12	09/25/25 11:32	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/25/25 09:12	09/25/25 11:32	1

Lab Sample ID: LCS 880-119751/1-A

Matrix: Solid

Analysis Batch: 119726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119751

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1224		mg/Kg		122	70 - 130
Toluene	0.100	0.1164		mg/Kg		116	70 - 130
Ethylbenzene	0.100	0.1204		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2378		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1197		mg/Kg		120	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-119751/2-A

Matrix: Solid

Analysis Batch: 119726

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119751

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1166		mg/Kg		117	70 - 130	5	35
Toluene	0.100	0.1074		mg/Kg		107	70 - 130	8	35
Ethylbenzene	0.100	0.1113		mg/Kg		111	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2213		mg/Kg		111	70 - 130	7	35
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8845-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-119649/1-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119649

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 02:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 02:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 02:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				09/24/25 10:13	09/28/25 02:34	1
o-Terphenyl	82		70 - 130				09/24/25 10:13	09/28/25 02:34	1

Lab Sample ID: LCS 880-119649/2-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119649

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1188		mg/Kg		119	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1252		mg/Kg		125	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	110		70 - 130				
o-Terphenyl	124		70 - 130				

Lab Sample ID: LCSD 880-119649/3-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119649

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1165		mg/Kg		116	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1163		mg/Kg		116	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	133	S1+	70 - 130						
o-Terphenyl	123		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-119608/1-A

Matrix: Solid

Analysis Batch: 119716

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			09/25/25 01:33	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8845-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-119608/2-A					Client Sample ID: Lab Control Sample						
Matrix: Solid					Prep Type: Soluble						
Analysis Batch: 119716											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	212.7	*-	mg/Kg		85	90 - 110		

Lab Sample ID: LCSD 880-119608/3-A					Client Sample ID: Lab Control Sample Dup						
Matrix: Solid					Prep Type: Soluble						
Analysis Batch: 119716											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	254.6		mg/Kg		102	90 - 110	18	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8845-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 119726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8845-1	CS - 9	Total/NA	Solid	8021B	119751
890-8845-2	CS - 10	Total/NA	Solid	8021B	119751
890-8845-3	CS - 11	Total/NA	Solid	8021B	119751
890-8845-4	CS - 12	Total/NA	Solid	8021B	119751
MB 880-119751/5-A	Method Blank	Total/NA	Solid	8021B	119751
LCS 880-119751/1-A	Lab Control Sample	Total/NA	Solid	8021B	119751
LCSD 880-119751/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	119751

Prep Batch: 119751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8845-1	CS - 9	Total/NA	Solid	5035	
890-8845-2	CS - 10	Total/NA	Solid	5035	
890-8845-3	CS - 11	Total/NA	Solid	5035	
890-8845-4	CS - 12	Total/NA	Solid	5035	
MB 880-119751/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-119751/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-119751/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 119876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8845-1	CS - 9	Total/NA	Solid	Total BTEX	
890-8845-2	CS - 10	Total/NA	Solid	Total BTEX	
890-8845-3	CS - 11	Total/NA	Solid	Total BTEX	
890-8845-4	CS - 12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 119649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8845-1	CS - 9	Total/NA	Solid	8015NM Prep	
890-8845-2	CS - 10	Total/NA	Solid	8015NM Prep	
890-8845-3	CS - 11	Total/NA	Solid	8015NM Prep	
890-8845-4	CS - 12	Total/NA	Solid	8015NM Prep	
MB 880-119649/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-119649/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-119649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 119934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8845-1	CS - 9	Total/NA	Solid	8015B NM	119649
890-8845-2	CS - 10	Total/NA	Solid	8015B NM	119649
890-8845-3	CS - 11	Total/NA	Solid	8015B NM	119649
890-8845-4	CS - 12	Total/NA	Solid	8015B NM	119649
MB 880-119649/1-A	Method Blank	Total/NA	Solid	8015B NM	119649
LCS 880-119649/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	119649
LCSD 880-119649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	119649

Analysis Batch: 119996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8845-1	CS - 9	Total/NA	Solid	8015 NM	
890-8845-2	CS - 10	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8845-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 119996 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8845-3	CS - 11	Total/NA	Solid	8015 NM	
890-8845-4	CS - 12	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 119608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8845-1	CS - 9	Soluble	Solid	DI Leach	
890-8845-2	CS - 10	Soluble	Solid	DI Leach	
890-8845-3	CS - 11	Soluble	Solid	DI Leach	
890-8845-4	CS - 12	Soluble	Solid	DI Leach	
MB 880-119608/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-119608/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-119608/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 119716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8845-1	CS - 9	Soluble	Solid	300.0	119608
890-8845-2	CS - 10	Soluble	Solid	300.0	119608
890-8845-3	CS - 11	Soluble	Solid	300.0	119608
890-8845-4	CS - 12	Soluble	Solid	300.0	119608
MB 880-119608/1-A	Method Blank	Soluble	Solid	300.0	119608
LCS 880-119608/2-A	Lab Control Sample	Soluble	Solid	300.0	119608
LCSD 880-119608/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	119608

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8845-1
SDG: Lea County, NM

Client Sample ID: CS - 9

Lab Sample ID: 890-8845-1

Date Collected: 09/22/25 10:10

Matrix: Solid

Date Received: 09/23/25 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 17:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119876	09/25/25 17:55	AJ	EET MID
Total/NA	Analysis	8015 NM		1			119996	09/28/25 04:51	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	119649	09/24/25 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/28/25 04:51	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	119716	09/25/25 03:44	CS	EET MID

Client Sample ID: CS - 10

Lab Sample ID: 890-8845-2

Date Collected: 09/22/25 10:15

Matrix: Solid

Date Received: 09/23/25 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 18:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119876	09/25/25 18:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			119996	09/28/25 05:05	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	119649	09/24/25 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/28/25 05:05	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	119716	09/25/25 03:49	CS	EET MID

Client Sample ID: CS - 11

Lab Sample ID: 890-8845-3

Date Collected: 09/22/25 10:20

Matrix: Solid

Date Received: 09/23/25 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 18:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119876	09/25/25 18:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			119996	09/28/25 05:21	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	119649	09/24/25 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/28/25 05:21	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	119716	09/25/25 03:54	CS	EET MID

Client Sample ID: CS - 12

Lab Sample ID: 890-8845-4

Date Collected: 09/22/25 10:25

Matrix: Solid

Date Received: 09/23/25 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 18:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119876	09/25/25 18:56	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8845-1
SDG: Lea County, NM

Client Sample ID: CS - 12
Date Collected: 09/22/25 10:25
Date Received: 09/23/25 09:56

Lab Sample ID: 890-8845-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			119996	09/28/25 05:36	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	119649	09/24/25 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/28/25 05:36	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	119716	09/25/25 04:00	CS	EET MID

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

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Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8845-1
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	NELAP	T104704400	06-30-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8845-1
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: Right Meow 31 CTB 7

Job ID: 890-8845-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8845-1	CS - 9	Solid	09/22/25 10:10	09/23/25 09:56	0.5
890-8845-2	CS - 10	Solid	09/22/25 10:15	09/23/25 09:56	0.5
890-8845-3	CS - 11	Solid	09/22/25 10:20	09/23/25 09:56	0.5
890-8845-4	CS - 12	Solid	09/22/25 10:25	09/23/25 09:56	0.5

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Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3343
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No:

www.xenco.com Page 1 of 1

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	jimoreno@earthsys.net

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	



[illegible]

Total	200.7 / 6010	200.8 / 6020:
Circle Method(s) and Metal(s) to be analyzed		

8RCRA 13PPM Texas 11 Al Sh As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Hg: 1631 / 245.1 / 7470 174

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 Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		9/23/25 9:50 ¹²			

Revised Date: 09/25/2020 Rev 2020

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8845-1

SDG Number: Lea County, NM

Login Number: 8845

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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: 890-8845-1

SDG Number: Lea County, NM

Login Number: 8845

List Number: 2

Creator: Rios, Minerva

List Source: Eurofins Midland

List Creation: 09/24/25 09:08 AM

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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/29/2025 1:29:22 PM

JOB DESCRIPTION

Right Meow 31 CTB 7
Lea County, NM

JOB NUMBER

890-8846-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

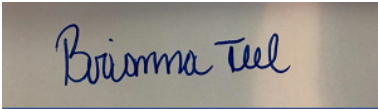
Eurofins Carlsbad

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



Generated
9/29/2025 1:29:22 PM

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

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Laboratory Job ID: 890-8846-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8846-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
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
MQL	Method Quantitation Limit
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)
RL	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

Case Narrative

Client: Earth Systems Response and Restoration
Project: Right Meow 31 CTB 7

Job ID: 890-8846-1

Job ID: 890-8846-1

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Job Narrative 890-8846-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/23/2025 9:56 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 -17.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS - 13 (890-8846-1) and CS - 14 (890-8846-2).

The following samples were received and analyzed from an unpreserved bulk soil jar: CS - 13 (890-8846-1) and CS - 14 (890-8846-2).

The following samples were received and analyzed from an unpreserved bulk soil jar: CS - 13 (890-8846-1) and CS - 14 (890-8846-2).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-119649/3-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The laboratory control sample (LCS) associated with preparation batch 880-119608 and analytical batch 880-119716 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8846-1
SDG: Lea County, NM

Client Sample ID: CS - 13

Lab Sample ID: 890-8846-1

Date Collected: 09/22/25 10:30

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

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		09/25/25 09:12	09/25/25 19:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/25/25 09:12	09/25/25 19:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/25/25 09:12	09/25/25 19:17	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/25/25 09:12	09/25/25 19:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/25/25 09:12	09/25/25 19:17	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/25/25 09:12	09/25/25 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/25/25 09:12	09/25/25 19:17	1
1,4-Difluorobenzene (Surr)	97		70 - 130	09/25/25 09:12	09/25/25 19:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/25/25 19:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/28/25 05:52	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	<49.8	U	49.8		mg/Kg		09/24/25 10:13	09/28/25 05:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/24/25 10:13	09/28/25 05:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/24/25 10:13	09/28/25 05:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	09/24/25 10:13	09/28/25 05:52	1
o-Terphenyl	83		70 - 130	09/24/25 10:13	09/28/25 05:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2090	*-	50.4		mg/Kg			09/25/25 04:05	5

Client Sample ID: CS - 14

Lab Sample ID: 890-8846-2

Date Collected: 09/22/25 10:35

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

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		09/25/25 09:12	09/25/25 19:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/25/25 09:12	09/25/25 19:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/25/25 09:12	09/25/25 19:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/25/25 09:12	09/25/25 19:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/25/25 09:12	09/25/25 19:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/25/25 09:12	09/25/25 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	09/25/25 09:12	09/25/25 19:37	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8846-1
SDG: Lea County, NM

Client Sample ID: CS - 14

Lab Sample ID: 890-8846-2

Date Collected: 09/22/25 10:35

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90		70 - 130	09/25/25 09:12	09/25/25 19:37	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			09/25/25 19:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/28/25 06:06	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	<49.9	U	49.9		mg/Kg		09/24/25 10:13	09/28/25 06:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/24/25 10:13	09/28/25 06:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/24/25 10:13	09/28/25 06:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				09/24/25 10:13	09/28/25 06:06	1
o-Terphenyl	86		70 - 130				09/24/25 10:13	09/28/25 06:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	751	*-	10.1		mg/Kg			09/25/25 04:10	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8846-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8846-1	CS - 13	105	97
890-8846-2	CS - 14	102	90
LCS 880-119751/1-A	Lab Control Sample	116	96
LCSD 880-119751/2-A	Lab Control Sample Dup	114	102
MB 880-119751/5-A	Method Blank	85	101
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 Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8846-1	CS - 13	83	83
890-8846-2	CS - 14	86	86
LCS 880-119649/2-A	Lab Control Sample	110	124
LCSD 880-119649/3-A	Lab Control Sample Dup	133 S1+	123
MB 880-119649/1-A	Method Blank	79	82
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8846-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-119751/5-A

Matrix: Solid

Analysis Batch: 119726

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/25/25 09:12	09/25/25 11:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	09/25/25 09:12	09/25/25 11:32	1
1,4-Difluorobenzene (Surr)	101		70 - 130	09/25/25 09:12	09/25/25 11:32	1

Lab Sample ID: LCS 880-119751/1-A

Matrix: Solid

Analysis Batch: 119726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119751

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1224		mg/Kg		122	70 - 130
Toluene	0.100	0.1164		mg/Kg		116	70 - 130
Ethylbenzene	0.100	0.1204		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2378		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1197		mg/Kg		120	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-119751/2-A

Matrix: Solid

Analysis Batch: 119726

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119751

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1166		mg/Kg		117	70 - 130	5	35
Toluene	0.100	0.1074		mg/Kg		107	70 - 130	8	35
Ethylbenzene	0.100	0.1113		mg/Kg		111	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2213		mg/Kg		111	70 - 130	7	35
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8846-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-119649/1-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119649

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 02:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 02:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/24/25 10:13	09/28/25 02:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				09/24/25 10:13	09/28/25 02:34	1
o-Terphenyl	82		70 - 130				09/24/25 10:13	09/28/25 02:34	1

Lab Sample ID: LCS 880-119649/2-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119649

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1188		mg/Kg		119	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1252		mg/Kg		125	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	110		70 - 130				
o-Terphenyl	124		70 - 130				

Lab Sample ID: LCSD 880-119649/3-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119649

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1165		mg/Kg		116	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1163		mg/Kg		116	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	133	S1+	70 - 130						
o-Terphenyl	123		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-119608/1-A

Matrix: Solid

Analysis Batch: 119716

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			09/25/25 01:33	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8846-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-119608/2-A					Client Sample ID: Lab Control Sample						
Matrix: Solid					Prep Type: Soluble						
Analysis Batch: 119716											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	212.7	*-	mg/Kg		85	90 - 110		

Lab Sample ID: LCSD 880-119608/3-A					Client Sample ID: Lab Control Sample Dup						
Matrix: Solid					Prep Type: Soluble						
Analysis Batch: 119716											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	254.6		mg/Kg		102	90 - 110	18	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8846-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 119726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8846-1	CS - 13	Total/NA	Solid	8021B	119751
890-8846-2	CS - 14	Total/NA	Solid	8021B	119751
MB 880-119751/5-A	Method Blank	Total/NA	Solid	8021B	119751
LCS 880-119751/1-A	Lab Control Sample	Total/NA	Solid	8021B	119751
LCSD 880-119751/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	119751

Prep Batch: 119751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8846-1	CS - 13	Total/NA	Solid	5035	
890-8846-2	CS - 14	Total/NA	Solid	5035	
MB 880-119751/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-119751/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-119751/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 119877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8846-1	CS - 13	Total/NA	Solid	Total BTEX	
890-8846-2	CS - 14	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 119649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8846-1	CS - 13	Total/NA	Solid	8015NM Prep	
890-8846-2	CS - 14	Total/NA	Solid	8015NM Prep	
MB 880-119649/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-119649/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-119649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 119934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8846-1	CS - 13	Total/NA	Solid	8015B NM	119649
890-8846-2	CS - 14	Total/NA	Solid	8015B NM	119649
MB 880-119649/1-A	Method Blank	Total/NA	Solid	8015B NM	119649
LCS 880-119649/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	119649
LCSD 880-119649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	119649

Analysis Batch: 119997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8846-1	CS - 13	Total/NA	Solid	8015 NM	
890-8846-2	CS - 14	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 119608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8846-1	CS - 13	Soluble	Solid	DI Leach	
890-8846-2	CS - 14	Soluble	Solid	DI Leach	
MB 880-119608/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-119608/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-119608/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8846-1
SDG: Lea County, NM

HPLC/IC

Analysis Batch: 119716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8846-1	CS - 13	Soluble	Solid	300.0	119608
890-8846-2	CS - 14	Soluble	Solid	300.0	119608
MB 880-119608/1-A	Method Blank	Soluble	Solid	300.0	119608
LCS 880-119608/2-A	Lab Control Sample	Soluble	Solid	300.0	119608
LCSD 880-119608/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	119608

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8846-1
SDG: Lea County, NM

Client Sample ID: CS - 13

Lab Sample ID: 890-8846-1

Date Collected: 09/22/25 10:30

Matrix: Solid

Date Received: 09/23/25 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 19:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119877	09/25/25 19:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			119997	09/28/25 05:52	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	119649	09/24/25 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/28/25 05:52	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	119716	09/25/25 04:05	CS	EET MID

Client Sample ID: CS - 14

Lab Sample ID: 890-8846-2

Date Collected: 09/22/25 10:35

Matrix: Solid

Date Received: 09/23/25 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 19:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119877	09/25/25 19:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			119997	09/28/25 06:06	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	119649	09/24/25 10:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/28/25 06:06	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	119716	09/25/25 04:10	CS	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: Right Meow 31 CTB 7

Job ID: 890-8846-1
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	NELAP	T104704400	06-30-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8846-1
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: Right Meow 31 CTB 7

Job ID: 890-8846-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8846-1	CS - 13	Solid	09/22/25 10:30	09/23/25 09:56	0.5
890-8846-2	CS - 14	Solid	09/22/25 10:35	09/23/25 09:56	0.5

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Environment Testing
Xenco

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

Chain of Custody

Work Order No:



www.xenco.com Page 1 of 1

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1970 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	jmoreno@earthsys.net

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

[illegible][illegible]

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions to service. Eurofins Xeno will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$65.00 will be applied to each project and a charge of \$8 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		9/23/25 9:50			

Student Data: 08/25/2025 10:00 AM

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8846-1

SDG Number: Lea County, NM

Login Number: 8846

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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: 890-8846-1

SDG Number: Lea County, NM

Login Number: 8846

List Number: 2

Creator: Rios, Minerva

List Source: Eurofins Midland

List Creation: 09/24/25 09:08 AM

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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/29/2025 1:28:11 PM

JOB DESCRIPTION

Right Meow 31 CTB 7
Lea County, NM

JOB NUMBER

890-8842-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

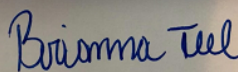
Eurofins Carlsbad

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



Generated
9/29/2025 1:28:11 PM

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

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Laboratory Job ID: 890-8842-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
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
MQL	Method Quantitation Limit
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)
RL	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

Case Narrative

Client: Earth Systems Response and Restoration
Project: Right Meow 31 CTB 7

Job ID: 890-8842-1

Job ID: 890-8842-1

Eurofins Carlsbad

Job Narrative 890-8842-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 9/23/2025 9:56 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 -17.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW - 1 (890-8842-1), SW - 2 (890-8842-2), SW - 3 (890-8842-3), SW - 4 (890-8842-4), SW - 5 (890-8842-5) and SW - 6 (890-8842-6).

The following samples were received and analyzed from an unpreserved bulk soil jar: SW - 1 (890-8842-1), SW - 2 (890-8842-2), SW - 3 (890-8842-3), SW - 4 (890-8842-4), SW - 5 (890-8842-5) and SW - 6 (890-8842-6).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW - 1 (890-8842-1), (CCV 880-119630/20), (CCV 880-119630/33), (CCV 880-119630/51), (LCSD 880-119636/2-A) and (890-8842-A-1-D MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-119636 and analytical batch 880-119630 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-119787 and analytical batch 880-119727 was outside the upper control limits.

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

Diesel Range Organics

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-119541 and analytical batch 880-119934 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The laboratory control sample (LCS) associated with preparation batch 880-119608 and analytical batch 880-119716 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

Client Sample ID: SW - 1

Lab Sample ID: 890-8842-1

Date Collected: 09/22/25 09:00

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0-0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/24/25 09:03	09/24/25 23:07	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		09/24/25 09:03	09/24/25 23:07	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		09/24/25 09:03	09/24/25 23:07	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		09/24/25 09:03	09/24/25 23:07	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		09/24/25 09:03	09/24/25 23:07	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		09/24/25 09:03	09/24/25 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	09/24/25 09:03	09/24/25 23:07	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/24/25 09:03	09/24/25 23:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/24/25 23:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/27/25 23:02	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		09/23/25 09:08	09/27/25 23:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		09/23/25 09:08	09/27/25 23:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/23/25 09:08	09/27/25 23:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	09/23/25 09:08	09/27/25 23:02	1
o-Terphenyl	106		70 - 130	09/23/25 09:08	09/27/25 23:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116	*-	10.1		mg/Kg			09/25/25 01:49	1

Client Sample ID: SW - 2

Lab Sample ID: 890-8842-2

Date Collected: 09/22/25 09:05

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0-2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/25/25 11:17	09/25/25 13:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/25/25 11:17	09/25/25 13:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/25/25 11:17	09/25/25 13:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/25/25 11:17	09/25/25 13:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/25/25 11:17	09/25/25 13:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/25/25 11:17	09/25/25 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	09/25/25 11:17	09/25/25 13:36	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

Client Sample ID: SW - 2

Lab Sample ID: 890-8842-2

Date Collected: 09/22/25 09:05

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0-2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	09/25/25 11:17	09/25/25 13:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/25/25 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/27/25 23:18	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	<49.9	U	49.9		mg/Kg		09/23/25 09:08	09/27/25 23:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		09/23/25 09:08	09/27/25 23:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/23/25 09:08	09/27/25 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				09/23/25 09:08	09/27/25 23:18	1
o-Terphenyl	108		70 - 130				09/23/25 09:08	09/27/25 23:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	388	*-	10.0		mg/Kg			09/25/25 02:05	1

Client Sample ID: SW - 3

Lab Sample ID: 890-8842-3

Date Collected: 09/22/25 09:10

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0-0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 12:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 12:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 12:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/25/25 09:12	09/25/25 12:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 12:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/25/25 09:12	09/25/25 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	09/25/25 09:12	09/25/25 12:35	1
1,4-Difluorobenzene (Surr)	94		70 - 130	09/25/25 09:12	09/25/25 12:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/25/25 12:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/27/25 23:33	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

Client Sample ID: SW - 3

Lab Sample ID: 890-8842-3

Date Collected: 09/22/25 09:10

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0-0.5

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		09/23/25 09:08	09/27/25 23:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		09/23/25 09:08	09/27/25 23:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/23/25 09:08	09/27/25 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				09/23/25 09:08	09/27/25 23:33	1
o-Terphenyl	105		70 - 130				09/23/25 09:08	09/27/25 23:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	400	*-	10.0		mg/Kg			09/25/25 02:10	1

Client Sample ID: SW - 4

Lab Sample ID: 890-8842-4

Date Collected: 09/22/25 09:15

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0-0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/25/25 09:12	09/25/25 12:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/25/25 09:12	09/25/25 12:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/25/25 09:12	09/25/25 12:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/25/25 09:12	09/25/25 12:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/25/25 09:12	09/25/25 12:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/25/25 09:12	09/25/25 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				09/25/25 09:12	09/25/25 12:56	1
1,4-Difluorobenzene (Surr)	96		70 - 130				09/25/25 09:12	09/25/25 12:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/25/25 12:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/27/25 23:49	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	<49.9	U	49.9		mg/Kg		09/23/25 09:08	09/27/25 23:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		09/23/25 09:08	09/27/25 23:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/23/25 09:08	09/27/25 23:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				09/23/25 09:08	09/27/25 23:49	1
o-Terphenyl	93		70 - 130				09/23/25 09:08	09/27/25 23:49	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

Client Sample ID: SW - 4

Lab Sample ID: 890-8842-4

Date Collected: 09/22/25 09:15

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0-0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129	*-	10.0		mg/Kg			09/25/25 02:15	1

Client Sample ID: SW - 5

Lab Sample ID: 890-8842-5

Date Collected: 09/22/25 09:20

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0-4

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		09/25/25 09:12	09/25/25 13:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/25/25 09:12	09/25/25 13:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/25/25 09:12	09/25/25 13:16	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/25/25 09:12	09/25/25 13:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/25/25 09:12	09/25/25 13:16	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/25/25 09:12	09/25/25 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				09/25/25 09:12	09/25/25 13:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130				09/25/25 09:12	09/25/25 13:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			09/25/25 13:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/28/25 00:03	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		09/23/25 09:08	09/28/25 00:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		09/23/25 09:08	09/28/25 00:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/23/25 09:08	09/28/25 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				09/23/25 09:08	09/28/25 00:03	1
o-Terphenyl	101		70 - 130				09/23/25 09:08	09/28/25 00:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	415	*-	10.1		mg/Kg			09/25/25 02:20	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

Client Sample ID: SW - 6

Lab Sample ID: 890-8842-6

Date Collected: 09/22/25 09:25

Matrix: Solid

Date Received: 09/23/25 09:56

Sample Depth: 0-4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/25/25 09:12	09/25/25 13:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		09/25/25 09:12	09/25/25 13:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/25/25 09:12	09/25/25 13:37	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		09/25/25 09:12	09/25/25 13:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/25/25 09:12	09/25/25 13:37	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/25/25 09:12	09/25/25 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	09/25/25 09:12	09/25/25 13:37	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/25/25 09:12	09/25/25 13:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/25/25 13:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/28/25 00:18	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		09/23/25 09:08	09/28/25 00:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		09/23/25 09:08	09/28/25 00:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/23/25 09:08	09/28/25 00:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	09/23/25 09:08	09/28/25 00:18	1
o-Terphenyl	104		70 - 130	09/23/25 09:08	09/28/25 00:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	359	*-	9.96		mg/Kg			09/25/25 02:36	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8842-1	SW - 1	143 S1+	96
890-8842-1 MS	SW - 1	141 S1+	87
890-8842-1 MSD	SW - 1	123	95
890-8842-2	SW - 2	99	105
890-8842-2 MS	SW - 2	87	84
890-8842-2 MSD	SW - 2	98	93
890-8842-3	SW - 3	98	94
890-8842-4	SW - 4	102	96
890-8842-5	SW - 5	106	96
890-8842-6	SW - 6	106	96
LCS 880-119636/1-A	Lab Control Sample	126	91
LCS 880-119751/1-A	Lab Control Sample	116	96
LCS 880-119787/1-A	Lab Control Sample	96	107
LCSD 880-119636/2-A	Lab Control Sample Dup	135 S1+	98
LCSD 880-119751/2-A	Lab Control Sample Dup	114	102
LCSD 880-119787/2-A	Lab Control Sample Dup	102	102
MB 880-119630/8	Method Blank	126	93
MB 880-119636/5-A	Method Blank	127	90
MB 880-119751/5-A	Method Blank	85	101
MB 880-119787/5-A	Method Blank	176 S1+	96
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 Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8842-1	SW - 1	102	106
890-8842-2	SW - 2	106	108
890-8842-3	SW - 3	104	105
890-8842-4	SW - 4	92	93
890-8842-5	SW - 5	99	101
890-8842-6	SW - 6	103	104
LCS 880-119541/2-A	Lab Control Sample	106	121
LCSD 880-119541/3-A	Lab Control Sample Dup	102	94
MB 880-119541/1-A	Method Blank	92	94
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-119630/8

Matrix: Solid

Analysis Batch: 119630

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			09/24/25 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg			09/24/25 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			09/24/25 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			09/24/25 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			09/24/25 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			09/24/25 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130		09/24/25 11:49	1
1,4-Difluorobenzene (Surr)	93		70 - 130		09/24/25 11:49	1

Lab Sample ID: MB 880-119636/5-A

Matrix: Solid

Analysis Batch: 119630

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/24/25 09:03	09/24/25 22:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/24/25 09:03	09/24/25 22:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/24/25 09:03	09/24/25 22:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/24/25 09:03	09/24/25 22:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/24/25 09:03	09/24/25 22:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/24/25 09:03	09/24/25 22:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	09/24/25 09:03	09/24/25 22:46	1
1,4-Difluorobenzene (Surr)	90		70 - 130	09/24/25 09:03	09/24/25 22:46	1

Lab Sample ID: LCS 880-119636/1-A

Matrix: Solid

Analysis Batch: 119630

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119636

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09698		mg/Kg		97	70 - 130
Toluene	0.100	0.1027		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2042		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1050		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-119636/2-A

Matrix: Solid

Analysis Batch: 119630

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119636

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09967		mg/Kg		100	70 - 130	3	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-119636/2-A

Matrix: Solid

Analysis Batch: 119630

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119636

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1055		mg/Kg		105	70 - 130	3	35
Ethylbenzene	0.100	0.1057		mg/Kg		106	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2094		mg/Kg		105	70 - 130	3	35
o-Xylene	0.100	0.1075		mg/Kg		107	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-8842-1 MS

Matrix: Solid

Analysis Batch: 119630

Client Sample ID: SW - 1

Prep Type: Total/NA

Prep Batch: 119636

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.07229		mg/Kg		72	70 - 130
Toluene	<0.00201	U F1	0.100	0.06815	F1	mg/Kg		68	70 - 130
Ethylbenzene	<0.00201	U F1	0.100	0.05787	F1	mg/Kg		58	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1158	F1	mg/Kg		58	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.06083	F1	mg/Kg		61	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 890-8842-1 MSD

Matrix: Solid

Analysis Batch: 119630

Client Sample ID: SW - 1

Prep Type: Total/NA

Prep Batch: 119636

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.06976		mg/Kg		70	70 - 130	4	35
Toluene	<0.00201	U F1	0.100	0.06239	F1	mg/Kg		62	70 - 130	9	35
Ethylbenzene	<0.00201	U F1	0.100	0.05007	F1	mg/Kg		50	70 - 130	14	35
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.09827	F1	mg/Kg		49	70 - 130	16	35
o-Xylene	<0.00201	U F1	0.100	0.05257	F1	mg/Kg		53	70 - 130	15	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 880-119751/5-A

Matrix: Solid

Analysis Batch: 119726

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/25/25 09:12	09/25/25 11:32	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-119751/5-A

Matrix: Solid

Analysis Batch: 119726

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119751

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/25/25 09:12	09/25/25 11:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				09/25/25 09:12	09/25/25 11:32	1
1,4-Difluorobenzene (Surr)	101		70 - 130				09/25/25 09:12	09/25/25 11:32	1

Lab Sample ID: LCS 880-119751/1-A

Matrix: Solid

Analysis Batch: 119726

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119751

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1224		mg/Kg		122	70 - 130
Toluene	0.100	0.1164		mg/Kg		116	70 - 130
Ethylbenzene	0.100	0.1204		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2378		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1197		mg/Kg		120	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	116		70 - 130				
1,4-Difluorobenzene (Surr)	96		70 - 130				

Lab Sample ID: LCSD 880-119751/2-A

Matrix: Solid

Analysis Batch: 119726

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119751

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1166		mg/Kg		117	70 - 130	5	35
Toluene	0.100	0.1074		mg/Kg		107	70 - 130	8	35
Ethylbenzene	0.100	0.1113		mg/Kg		111	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2213		mg/Kg		111	70 - 130	7	35
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130	7	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	114		70 - 130						
1,4-Difluorobenzene (Surr)	102		70 - 130						

Lab Sample ID: MB 880-119787/5-A

Matrix: Solid

Analysis Batch: 119727

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119787

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/25/25 11:17	09/25/25 13:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/25/25 11:17	09/25/25 13:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/25/25 11:17	09/25/25 13:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/25/25 11:17	09/25/25 13:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/25/25 11:17	09/25/25 13:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/25/25 11:17	09/25/25 13:07	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	176	S1+	70 - 130	09/25/25 11:17	09/25/25 13:07	1
1,4-Difluorobenzene (Surr)	96		70 - 130	09/25/25 11:17	09/25/25 13:07	1

Lab Sample ID: LCS 880-119787/1-A

Matrix: Solid

Analysis Batch: 119727

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1077		mg/Kg		108	70 - 130
Toluene	0.100	0.08598		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.1048		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.1891		mg/Kg		95	70 - 130
o-Xylene	0.100	0.08592		mg/Kg		86	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-119787/2-A

Matrix: Solid

Analysis Batch: 119727

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119787

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1040		mg/Kg		104	70 - 130	3	35
Toluene	0.100	0.08527		mg/Kg		85	70 - 130	1	35
Ethylbenzene	0.100	0.1113		mg/Kg		111	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2050		mg/Kg		103	70 - 130	8	35
o-Xylene	0.100	0.1031		mg/Kg		103	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-8842-2 MS

Matrix: Solid

Analysis Batch: 119727

Client Sample ID: SW - 2

Prep Type: Total/NA

Prep Batch: 119787

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.08125		mg/Kg		81	70 - 130
Toluene	<0.00201	U	0.100	0.08259		mg/Kg		83	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.08265		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1617		mg/Kg		81	70 - 130
o-Xylene	<0.00201	U	0.100	0.07984		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

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

Lab Sample ID: 890-8842-2 MSD

Matrix: Solid

Analysis Batch: 119727

Client Sample ID: SW - 2

Prep Type: Total/NA

Prep Batch: 119787

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.09308		mg/Kg		93	70 - 130	14	35
Toluene	<0.00201	U	0.100	0.08368		mg/Kg		84	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.100	0.09273		mg/Kg		93	70 - 130	11	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1822		mg/Kg		91	70 - 130	12	35
o-Xylene	<0.00201	U	0.100	0.09189		mg/Kg		92	70 - 130	14	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

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

Lab Sample ID: MB 880-119541/1-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/23/25 09:08	09/27/25 18:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/23/25 09:08	09/27/25 18:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/23/25 09:08	09/27/25 18:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	09/23/25 09:08	09/27/25 18:30	1
o-Terphenyl	94		70 - 130	09/23/25 09:08	09/27/25 18:30	1

Lab Sample ID: LCS 880-119541/2-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1023		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1193		mg/Kg		119	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: LCSD 880-119541/3-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119541

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	873.4		mg/Kg		87	70 - 130	16	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-119541/3-A

Matrix: Solid

Analysis Batch: 119934

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119541

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	893.7	*1	mg/Kg		89	70 - 130	29	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	102		70 - 130						
o-Terphenyl	94		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-119608/1-A

Matrix: Solid

Analysis Batch: 119716

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			09/25/25 01:33	1

Lab Sample ID: LCS 880-119608/2-A

Matrix: Solid

Analysis Batch: 119716

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	212.7	*-	mg/Kg		85	90 - 110		

Lab Sample ID: LCSD 880-119608/3-A

Matrix: Solid

Analysis Batch: 119716

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	254.6		mg/Kg		102	90 - 110	18	20

Lab Sample ID: 890-8842-1 MS

Matrix: Solid

Analysis Batch: 119716

Client Sample ID: SW - 1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	116	*-	252	373.6		mg/Kg		102	90 - 110		

Lab Sample ID: 890-8842-1 MSD

Matrix: Solid

Analysis Batch: 119716

Client Sample ID: SW - 1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	116	*-	252	374.6		mg/Kg		103	90 - 110	0	20

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 119630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8842-1	SW - 1	Total/NA	Solid	8021B	119636
MB 880-119630/8	Method Blank	Total/NA	Solid	8021B	
MB 880-119636/5-A	Method Blank	Total/NA	Solid	8021B	119636
LCS 880-119636/1-A	Lab Control Sample	Total/NA	Solid	8021B	119636
LCSD 880-119636/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	119636
890-8842-1 MS	SW - 1	Total/NA	Solid	8021B	119636
890-8842-1 MSD	SW - 1	Total/NA	Solid	8021B	119636

Prep Batch: 119636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8842-1	SW - 1	Total/NA	Solid	5035	
MB 880-119636/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-119636/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-119636/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8842-1 MS	SW - 1	Total/NA	Solid	5035	
890-8842-1 MSD	SW - 1	Total/NA	Solid	5035	

Analysis Batch: 119726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8842-3	SW - 3	Total/NA	Solid	8021B	119751
890-8842-4	SW - 4	Total/NA	Solid	8021B	119751
890-8842-5	SW - 5	Total/NA	Solid	8021B	119751
890-8842-6	SW - 6	Total/NA	Solid	8021B	119751
MB 880-119751/5-A	Method Blank	Total/NA	Solid	8021B	119751
LCS 880-119751/1-A	Lab Control Sample	Total/NA	Solid	8021B	119751
LCSD 880-119751/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	119751

Analysis Batch: 119727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8842-2	SW - 2	Total/NA	Solid	8021B	119787
MB 880-119787/5-A	Method Blank	Total/NA	Solid	8021B	119787
LCS 880-119787/1-A	Lab Control Sample	Total/NA	Solid	8021B	119787
LCSD 880-119787/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	119787
890-8842-2 MS	SW - 2	Total/NA	Solid	8021B	119787
890-8842-2 MSD	SW - 2	Total/NA	Solid	8021B	119787

Prep Batch: 119751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8842-3	SW - 3	Total/NA	Solid	5035	
890-8842-4	SW - 4	Total/NA	Solid	5035	
890-8842-5	SW - 5	Total/NA	Solid	5035	
890-8842-6	SW - 6	Total/NA	Solid	5035	
MB 880-119751/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-119751/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-119751/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 119787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8842-2	SW - 2	Total/NA	Solid	5035	
MB 880-119787/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-119787/1-A	Lab Control Sample	Total/NA	Solid	5035	

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

GC VOA (Continued)

Prep Batch: 119787 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-119787/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8842-2 MS	SW - 2	Total/NA	Solid	5035	
890-8842-2 MSD	SW - 2	Total/NA	Solid	5035	

Analysis Batch: 119792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8842-1	SW - 1	Total/NA	Solid	Total BTEX	
890-8842-2	SW - 2	Total/NA	Solid	Total BTEX	
890-8842-3	SW - 3	Total/NA	Solid	Total BTEX	
890-8842-4	SW - 4	Total/NA	Solid	Total BTEX	
890-8842-5	SW - 5	Total/NA	Solid	Total BTEX	
890-8842-6	SW - 6	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 119541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8842-1	SW - 1	Total/NA	Solid	8015NM Prep	
890-8842-2	SW - 2	Total/NA	Solid	8015NM Prep	
890-8842-3	SW - 3	Total/NA	Solid	8015NM Prep	
890-8842-4	SW - 4	Total/NA	Solid	8015NM Prep	
890-8842-5	SW - 5	Total/NA	Solid	8015NM Prep	
890-8842-6	SW - 6	Total/NA	Solid	8015NM Prep	
MB 880-119541/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-119541/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-119541/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 119934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8842-1	SW - 1	Total/NA	Solid	8015B NM	119541
890-8842-2	SW - 2	Total/NA	Solid	8015B NM	119541
890-8842-3	SW - 3	Total/NA	Solid	8015B NM	119541
890-8842-4	SW - 4	Total/NA	Solid	8015B NM	119541
890-8842-5	SW - 5	Total/NA	Solid	8015B NM	119541
890-8842-6	SW - 6	Total/NA	Solid	8015B NM	119541
MB 880-119541/1-A	Method Blank	Total/NA	Solid	8015B NM	119541
LCS 880-119541/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	119541
LCSD 880-119541/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	119541

Analysis Batch: 119993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8842-1	SW - 1	Total/NA	Solid	8015 NM	
890-8842-2	SW - 2	Total/NA	Solid	8015 NM	
890-8842-3	SW - 3	Total/NA	Solid	8015 NM	
890-8842-4	SW - 4	Total/NA	Solid	8015 NM	
890-8842-5	SW - 5	Total/NA	Solid	8015 NM	
890-8842-6	SW - 6	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

HPLC/IC

Leach Batch: 119608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8842-1	SW - 1	Soluble	Solid	DI Leach	
890-8842-2	SW - 2	Soluble	Solid	DI Leach	
890-8842-3	SW - 3	Soluble	Solid	DI Leach	
890-8842-4	SW - 4	Soluble	Solid	DI Leach	
890-8842-5	SW - 5	Soluble	Solid	DI Leach	
890-8842-6	SW - 6	Soluble	Solid	DI Leach	
MB 880-119608/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-119608/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-119608/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8842-1 MS	SW - 1	Soluble	Solid	DI Leach	
890-8842-1 MSD	SW - 1	Soluble	Solid	DI Leach	

Analysis Batch: 119716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8842-1	SW - 1	Soluble	Solid	300.0	119608
890-8842-2	SW - 2	Soluble	Solid	300.0	119608
890-8842-3	SW - 3	Soluble	Solid	300.0	119608
890-8842-4	SW - 4	Soluble	Solid	300.0	119608
890-8842-5	SW - 5	Soluble	Solid	300.0	119608
890-8842-6	SW - 6	Soluble	Solid	300.0	119608
MB 880-119608/1-A	Method Blank	Soluble	Solid	300.0	119608
LCS 880-119608/2-A	Lab Control Sample	Soluble	Solid	300.0	119608
LCSD 880-119608/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	119608
890-8842-1 MS	SW - 1	Soluble	Solid	300.0	119608
890-8842-1 MSD	SW - 1	Soluble	Solid	300.0	119608

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

Client Sample ID: SW - 1

Lab Sample ID: 890-8842-1

Date Collected: 09/22/25 09:00

Matrix: Solid

Date Received: 09/23/25 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	119636	09/24/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119630	09/24/25 23:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119792	09/24/25 23:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			119993	09/27/25 23:02	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	119541	09/23/25 09:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/27/25 23:02	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	119716	09/25/25 01:49	CS	EET MID

Client Sample ID: SW - 2

Lab Sample ID: 890-8842-2

Date Collected: 09/22/25 09:05

Matrix: Solid

Date Received: 09/23/25 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	119787	09/25/25 11:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119727	09/25/25 13:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119792	09/25/25 13:36	AJ	EET MID
Total/NA	Analysis	8015 NM		1			119993	09/27/25 23:18	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	119541	09/23/25 09:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/27/25 23:18	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	119716	09/25/25 02:05	CS	EET MID

Client Sample ID: SW - 3

Lab Sample ID: 890-8842-3

Date Collected: 09/22/25 09:10

Matrix: Solid

Date Received: 09/23/25 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 12:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119792	09/25/25 12:35	AJ	EET MID
Total/NA	Analysis	8015 NM		1			119993	09/27/25 23:33	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	119541	09/23/25 09:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/27/25 23:33	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	119716	09/25/25 02:10	CS	EET MID

Client Sample ID: SW - 4

Lab Sample ID: 890-8842-4

Date Collected: 09/22/25 09:15

Matrix: Solid

Date Received: 09/23/25 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 12:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119792	09/25/25 12:56	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

Client Sample ID: SW - 4

Lab Sample ID: 890-8842-4

Date Collected: 09/22/25 09:15

Matrix: Solid

Date Received: 09/23/25 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			119993	09/27/25 23:49	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	119541	09/23/25 09:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/27/25 23:49	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	119716	09/25/25 02:15	CS	EET MID

Client Sample ID: SW - 5

Lab Sample ID: 890-8842-5

Date Collected: 09/22/25 09:20

Matrix: Solid

Date Received: 09/23/25 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 13:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119792	09/25/25 13:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			119993	09/28/25 00:03	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	119541	09/23/25 09:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/28/25 00:03	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	119716	09/25/25 02:20	CS	EET MID

Client Sample ID: SW - 6

Lab Sample ID: 890-8842-6

Date Collected: 09/22/25 09:25

Matrix: Solid

Date Received: 09/23/25 09:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	119751	09/25/25 09:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119726	09/25/25 13:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			119792	09/25/25 13:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			119993	09/28/25 00:18	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	119541	09/23/25 09:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119934	09/28/25 00:18	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	119608	09/23/25 14:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	119716	09/25/25 02:36	CS	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
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	NELAP	T104704400	06-30-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Right Meow 31 CTB 7

Job ID: 890-8842-1
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: Right Meow 31 CTB 7

Job ID: 890-8842-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8842-1	SW - 1	Solid	09/22/25 09:00	09/23/25 09:56	0-0.5
890-8842-2	SW - 2	Solid	09/22/25 09:05	09/23/25 09:56	0-2
890-8842-3	SW - 3	Solid	09/22/25 09:10	09/23/25 09:56	0-0.5
890-8842-4	SW - 4	Solid	09/22/25 09:15	09/23/25 09:56	0-0.5
890-8842-5	SW - 5	Solid	09/22/25 09:20	09/23/25 09:56	0-4
890-8842-6	SW - 6	Solid	09/22/25 09:25	09/23/25 09:56	0-4

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Gilbert Moreno	Bill to: (if different)	Jim Raley
Company Name:	Earth Systems R&R	Company Name:	Devon Energy
Address:	1910 Resource Ct.	Address:	
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	jmoreno@earthsys.net

Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level III <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

Project Name:	Right Meow 31 CTB 7	Turn Around	Pres. Code	ANALYSIS REQUEST		Preservative Codes
Project Number:	343	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush				None: NO DI Water: H ₂ O
Project Location:	Lee County, NM	Due Date:	Routine TAT			Cool: Cool MeOH: Me
Sampler's Name:	Santiago Giron	TAT starts the day received by the lab, if received by 4:30pm				HCL: HC HNO ₃ : HN
CCWO #:	21574502					H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				H ₃ PO ₄ : HP
Samples Received Inact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID: TMM 007				NaHSO ₄ : NABIS
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor: -2				Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading: -17.4				Zn Acetate+NaOH: Zn
Total Containers:		Corrected Temperature: -17.4				NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	Parameters															
							TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush											
SW-1	S	9.22.25	9:00	0-0.5	Comp	1	X	X	X													
SW-2	S	9.22.25	9:05	0-2	Comp	1	X	X	X													
SW-3	S	9.22.25	9:10	0-0.5	Comp	1	X	X	X													
SW-4	S	9.22.25	9:15	0-0.5	Comp	1	X	X	X													
SW-5	S	9.22.25	9:20	0-4	Comp	1	X	X	X													
SW-6	S	9.22.25	9:25	0-4	Comp	1	X	X	X													

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
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Circle Method(s) and Matrix(s) to be analyzed
Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		9/23/25 9:54			

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-8842-1

SDG Number: Lea County, NM

Login Number: 8842

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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: 890-8842-1

SDG Number: Lea County, NM

Login Number: 8842

List Number: 2

Creator: Rios, Minerva

List Source: Eurofins Midland

List Creation: 09/24/25 09:06 AM

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	

From: [Gilbert Moreno](#)
To: [Wells, Shelly, EMNRD](#)
Subject: [EXTERNAL] Re: nAPP2511547307 RIGHT MEOW 31 CTB 7
Date: Monday, December 15, 2025 12:23:29 PM
Attachments: [image.png](#)
[Outlook-5sqxynj3.png](#)

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

Hi Shelly,

Apologies, that was the only photo I had available to represent that area. My field scientist unfortunately did not capture a photo after that dirt pile had been completely removed.



Gilbert Moreno

Carlsbad Operations Manager- Project Geologist

O: (575) 323-9034 C: (832) 541-7719

gmoreno@earthsys.net

earthsys.net



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the message and any file attachments from your computer.

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, December 15, 2025 11:56 AM
To: Gilbert Moreno <gmoreno@earthsys.net>
Subject: nAPP2511547307 RIGHT MEOW 31 CTB 7

Hi Gilbert,

I am reviewing the remediation closure report submitted for nAPP2511547307 RIGHT MEOW 31 CTB 7 and have a question for you regarding the release. Referring to page 23, the top photo appears to show the deeper excavations at CS-15 and 16. Were any of the sidewall samples collected along the dirt left in place in between the two excavations shown there?

Sincerely,

Shelly

Shelly Wells * Senior Environmental Scientist
Environmental Bureau
EMNRD-Oil Conservation Division
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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QUESTIONS

Action 527594

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 527594
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2511547307
Incident Name	NAPP2511547307 RIGHT MEOW 31 CTB 7 @ FAPP2125751032
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2125751032] RIGHT MEOW 31 CTB 7

Location of Release Source

Please answer all the questions in this group.

Site Name	RIGHT MEOW 31 CTB 7
Date Release Discovered	04/25/2025
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Separator Produced Water Released: 30 BBL Recovered: 0 BBL Lost: 30 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
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)	Leak developed on 6" main water line to tanks.

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QUESTIONS, Page 2

Action 527594

QUESTIONS (continued)

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QUESTIONS

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

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 11/18/2025
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QUESTIONS, Page 3

Action 527594

QUESTIONS (continued)

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	Action Number: 527594
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (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	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	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	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	13600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>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>	
On what estimated date will the remediation commence	09/12/2025
On what date will (or did) the final sampling or liner inspection occur	09/22/2025
On what date will (or was) the remediation complete(d)	10/08/2025
What is the estimated surface area (in square feet) that will be reclaimed	3200
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	3200
What is the estimated volume (in cubic yards) that will be remediated	156
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 527594

QUESTIONS (continued)

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	Action Number: 527594
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QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>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>	
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: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 11/18/2025
<i>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.</i>	

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QUESTIONS, Page 5

Action 527594

QUESTIONS (continued)

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QUESTIONS

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

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QUESTIONS, Page 6

Action 527594

QUESTIONS (continued)

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	Action Number: 527594
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	506559
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/22/2025
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	2748

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3200
What was the total volume (cubic yards) remediated	156
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	The Site was remediated according to Site Closure Criteria and has been backfilled with clean, locally sourced material.
<i>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>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 11/18/2025

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Action 527594

QUESTIONS (continued)

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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 527594

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation closure approved.	12/15/2025