



September 6, 2024

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

RE: **The Contest Federal CTB- Closure Request Report**
Incident Number: nAPP2327037534
GPS: 32.22871°, -103.47959°
Lea County, NM
ESRR Project No. 2288

To Whom It May Concern:

Earth Systems Response & Restoration (ESRR), on behalf of Civitas Resources (Civitas), presents the following Closure Request Report (CRR) detailing all remedial efforts to date associated with an inadvertent release of produced water at the former Tap Rock Operating (Tap Rock) location, The Contest Federal CTB (Site). Based on completed remedial actions and laboratory analytical results from recent soil sampling events, Civitas is requesting No Further Action (NFA) at the Site.

Site Location & Incident Description

The production well (API 30-015-46673) for the Site is located in Unit L, Section 09, Township 24 South, Range 34 East, in Lea County, New Mexico (32.22871°, -103.47959°) and is associated with oil and gas exploration and production operations on Private Land (**Figure 1**). The lined secondary containment (LSC), where the release occurred, is located on the production pad just north of the production well pad (32.22997°, -103.47905°).

On September 19, 2023, a poly line within a LSC failed, causing the release of approximately 207 barrels (bbls) of produced water within the LSC and onto the adjacent production pad surface (**Figure 2**). A vacuum truck was immediately dispatched to the Site and recovered approximately 200 bbl of produced water. Immediate notice was given via email to the New Mexico Oil Conservation Division (NMOCD) on September 19, 2023. Tap Rock also reported the release to the NMOCD on a Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on September 27, 2023, and subsequently assigned Incident Number nAPP2327037534.

Background

During early 2024, a Tap Rock contracted third-party consultant oversaw the completion of excavation activities via mechanical equipment at the Site. Amid the transition from Tap Rock operating to Civitas operating, the third-party consultant was not retained.

On June 16, 2024, Civitas assigned ESRR to the project to investigate work completed to date by the third-party consultant and to complete additional soil sampling activities where necessary for closure of the incident.

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On September 4, 2024, Civitas requested an extension to the past due deadline in order to get back in compliance prior to submittal of this CRR. NMOCD approved the request and updated the due date to November 4, 2024.

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:

- o Greater than 5 miles of any continuously flowing watercourse or any other significant watercourse;
- o Greater than 5 miles of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- o Greater than 5 miles of any occupied permanent residence, school, hospital, institution or church;
- o Between 1 and 5 miles of any spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- o Greater than 5 miles of any other freshwater well or spring;
- o Greater than 5 miles of any incorporated municipal boundary or a defined municipal fresh water well field covered under a municipal ordinance;
- o Between 1 and 5 miles of any wetland;
- o Greater than 5 miles of any subsurface mine;
- o Greater than 5 miles of any unstable area (i.e. high karst potential); and
- o Greater than 5 miles of a 100-year floodplain.

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

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

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

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

TPH= Gasoline Range Organics + Diesel Range Organics + Oil Range Organics

Laboratory Analytical Methods used: Environmental Protection Agency (EPA) 300.0, EPA 8015 NM, EPA 8021 B

Remediation Activities

Under the guidance of the third-party consultant, an estimated 2,100 cubic yards of impacted soil was excavated from the Area of Concern (AOC) by methods of mechanical equipment. The excavation was advanced to depths ranging between 0.5 feet and 6 feet below ground surface (bgs) and assumed to have been disposed at the nearest disposal facility.

Upon assignment of this project, ESRR collected 5-point composite confirmation soil samples at a sampling frequency of 200 square feet from the excavation floors (CS01 through CS60) and sidewalls (SW01 through SW17). The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon resealable plastic bag. The confirmation soil samples were placed directly into pre-cleaned jars,

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packed with minimal void space, labeled, and placed on ice. The confirmation soil samples were transported under strict chain-of-custody procedures, to Eurofins in Carlsbad, New Mexico, for analysis of the COCs.

Laboratory analytical results indicated that concentrations of COCs for all final confirmation soil samples were below the applicable Site Closure Criteria and the reclamation standard. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all final confirmation soil samples are shown in **Figure 5** and **Figure 6**.

The remaining impacted soil stockpiled on site by the previous third-party consultant was transported to the Northern Delaware Basin Disposal in Jal, New Mexico, under Civitas 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.

Liner Inspection & Delineation Activities

On August 8, 2024, ESRR completed a visual inspection of the LSC for tears, cracks, cuts, breaks, and/ or any other damage to the liner that could have resulted in a breach of containment at the time of the release. Based on the inspection, a single pinhole was located in the northeast corner of the LSC requiring further investigation to confirm as a definite source of breachment.

ESRR continued further investigation by cutting a hole in the liner near the pinhole to assess the presence or absence of impacts below the LSC via hand auger. ESRR advanced the delineation borehole (HA-1) to 4 feet bgs. A second delineation borehole (HA-2) was advanced within the southwest corner of the LSC to 4 feet bgs to also assess the presence or absence of impacts within the LSC. Three additional delineation boreholes (HA-3 through HA-5) were advanced outside of the LSC to confirm the absence of impacts.

Delineation activities were driven by field screening soil for chloride utilizing QuanTab® test strips. A minimum of two soil samples were collected from each delineation borehole, representing the highest observed field screening concentrations and the greatest depth. Delineation soil samples were handled and analyzed as previously described. **Soil Sampling Logs** and **Photographic Documentation** of all activities are attached. The LSC was repaired by Civitas following delineation activities.

Laboratory analytical results indicated that concentrations of COCs for all delineation soil samples were below the applicable Site Closure Criteria and the reclamation standard. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all delineation soil samples are shown in **Figure 7**.

Closure Request

Based on laboratory analytical results for all final confirmation soil samples, Civitas believes that residual soil impacts associated with the inadvertent release have been excavated and removed from the Site. Furthermore, liner inspection activities and subsequent delineation soil samples confirmed no breach in containment, rather overspray of fluids onto the production pad surface at the time of the release. Civitas believes the completed remedial actions meet the requirements set forth in NMAC 19.15.29.13 regulations in order to be protective of human health, the environment, and groundwater.

The Contest Federal CTB - Closure Request Report
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As such, NFA appears warranted at this time, and Civitas requests Closure of this CRR associated with Incident Number nAPP2327037534.

If you have any questions or comments, please do not hesitate to contact Gilbert Moreno at (832) 541-7719 or gmoreno@earthsys.net. Documentation of Correspondance 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

cc: Luke Kelly, Civitas Resources

Attachments:

- Figure 1 - Site Location
- Figure 2 - Area of Concern
- Figure 3 - Ground Water
- Figure 4 - Karst Potential
- Referenced Well Records
- Table 1 – Soil Sample Analytical Results
- Figure 5 - Excavation Soil Sample Locations
- Figure 6 - Excavation Soil Sample Locations
- Figure 7 - Delineation Soil Sample Locations
- Soil Sampling Logs
- Photographic Documentation
- NMOCD Email Documentation & Correspondance
- Executed Chain-of-Custody Forms and Laboratory Analytical Reports

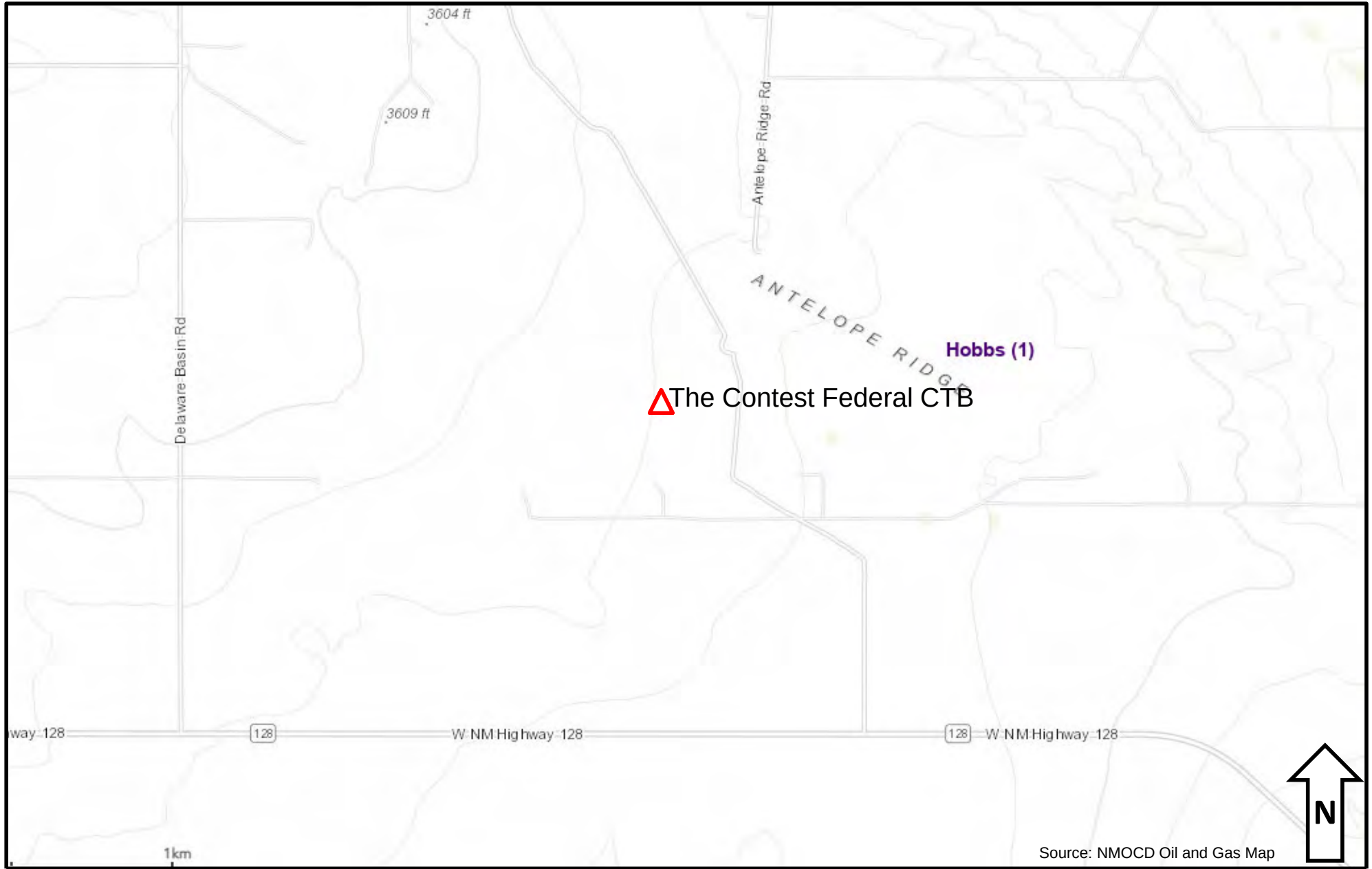


Figure 1 – Site Location

Civitas Resources – The Contest Federal CTB
GPS: 32.22997,-103.47905
Lea County, New Mexico

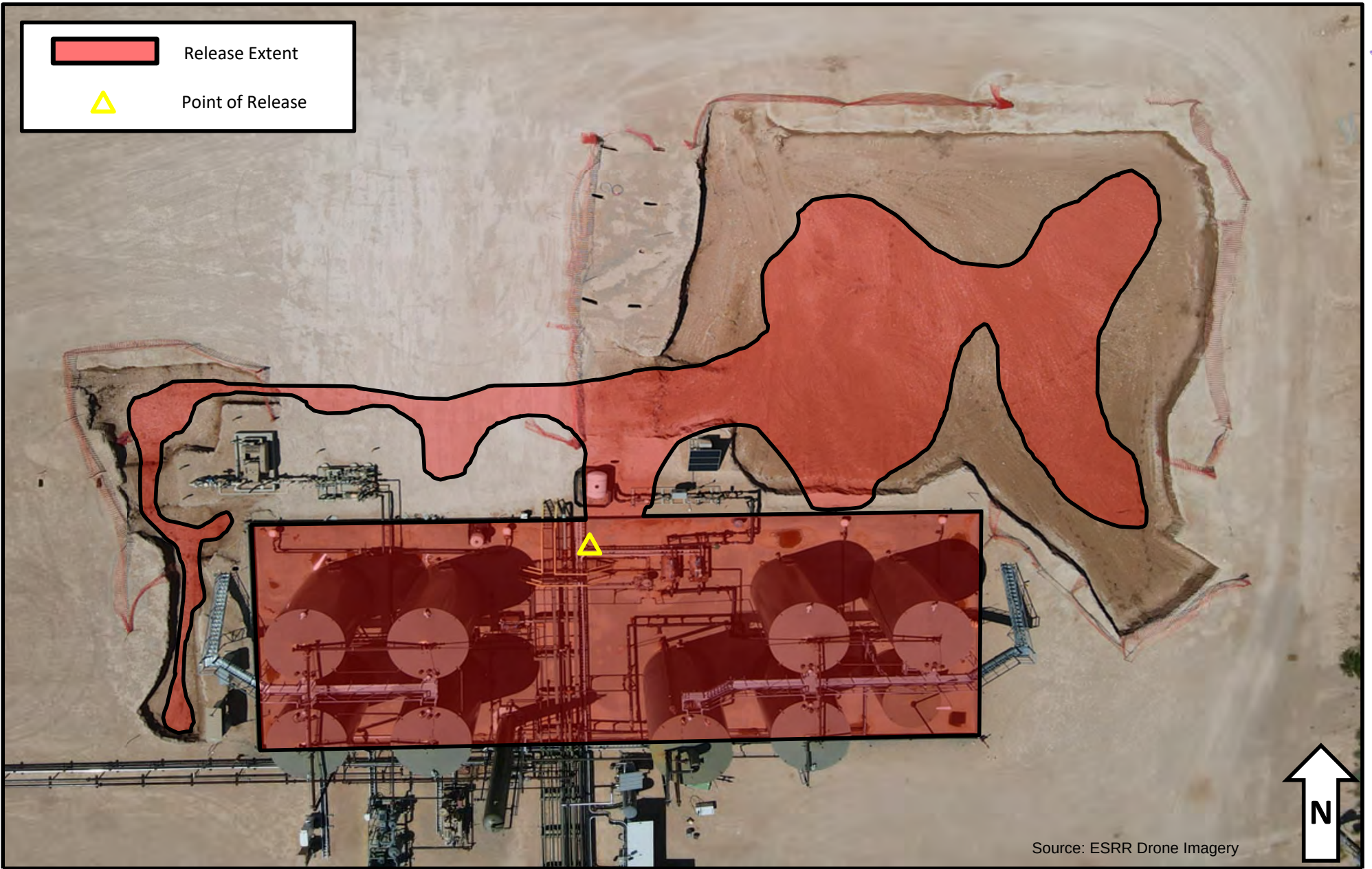


Figure 2 – Area of Concern

Civitas Resources – The Contest Federal CTB
GPS: 32.22997,-103.47905
Lea County, New Mexico

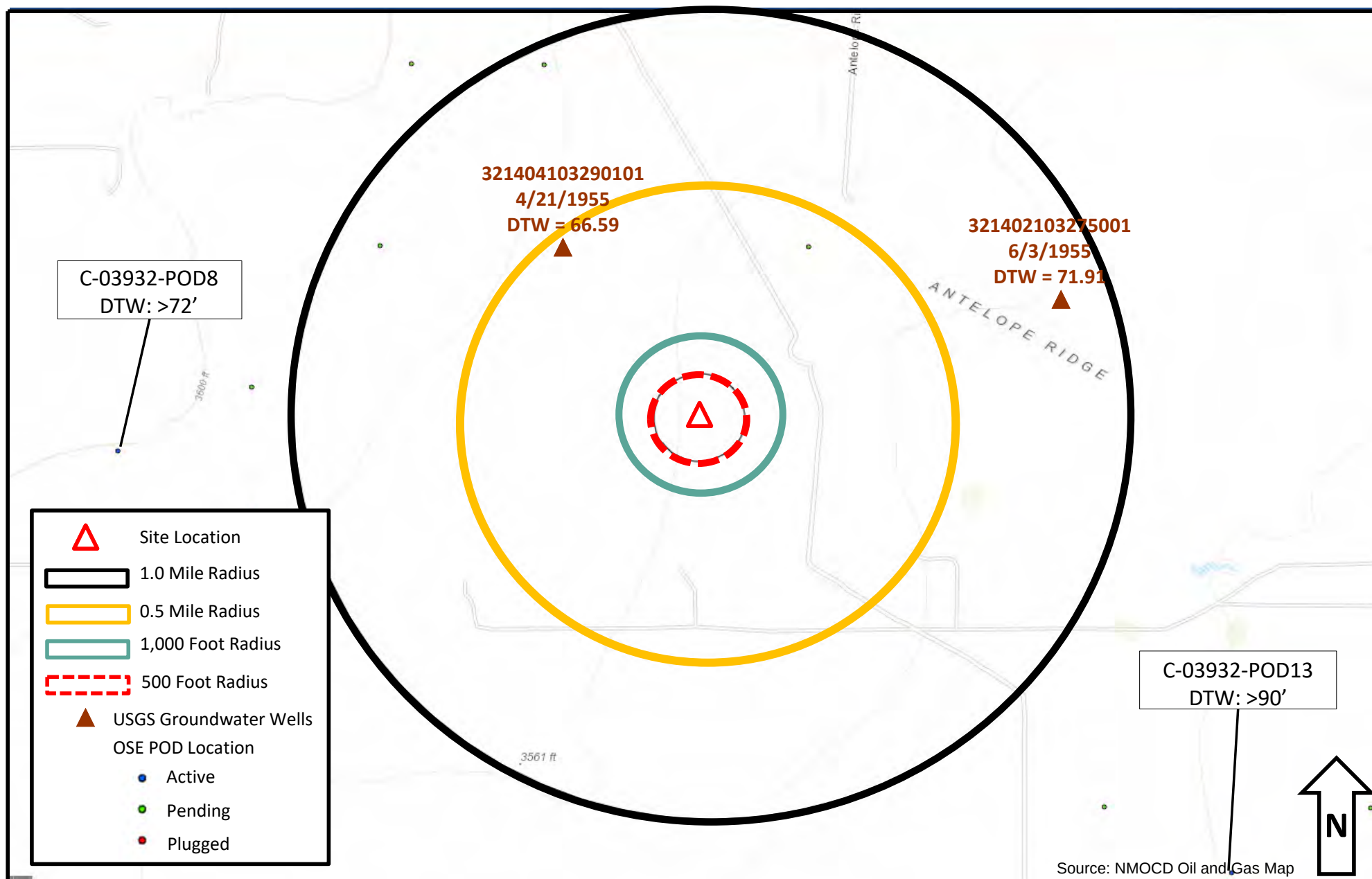


Figure 3 – Ground Water

Civitas Resources – The Contest Federal CTB
GPS: 32.22997,-103.47905
Lea County, New Mexico



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

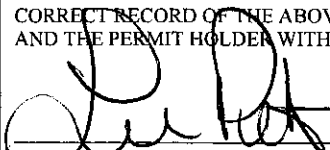
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) S8-BH-03				OSE FILE NUMBER(S) C 03932			
	WELL OWNER NAME(S) Bryce Krager % Parkhill, Smith & Cooper Attention: R.H. Holder				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 4222 85th Street				CITY Lubbock		STATE Texas	ZIP 79423
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 13	SECONDS 43.3 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
		LONGITUDE 103	30	8.3 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW 1/4 of SE 1/4 of NE 1/4 of SE 1/4 of Section 15, Township 24S, Range 34E								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1222		NAME OF LICENSED DRILLER Lee Peterson			NAME OF WELL DRILLING COMPANY Peterson Drilling & Testing, Inc.		
	DRILLING STARTED 02/08/16		DRILLING ENDED 02/09/16		DEPTH OF COMPLETED WELL (FT)		BORE HOLE DEPTH (FT) 72'	
	COMPLETED WELL IS:		☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)			DEPTH WATER FIRST ENCOUNTERED (FT)		
	DRILLING FLUID:		☒ AIR ☐ MUD			ADDITIVES - SPECIFY:		
	DRILLING METHOD:		☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:			STATIC WATER LEVEL IN COMPLETED WELL (FT)		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 10/29/15)

FILE NUMBER C-3932	POD NUMBER 8	TRN NUMBER 581433
LOCATION EXPL		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	7	7	Light Reddish Brown Fine Sand	Y ✓ N	
	7	17	10	Tannish White to Light Reddish Brown Caliche With Fine Sand	Y ✓ N	
	17	25	8	Tan-White Caliche	Y ✓ N	
	25	30	5	Light Reddish Brown Sand	Y ✓ N	
	30	32	2	Light Reddish Brown Sand	Y ✓ N	
	32	40	8	Light Tan to White Sand	Y ✓ N	
	40	45	5	Light Reddish Brown Sand with Sandstone Pebbles	Y ✓ N	
	45	48	3	Light Reddish Brown Sand with Caliche	Y ✓ N	
	48	50	2	Light Reddish Brown Sand	Y ✓ N	
	50	54	4	Light Reddish Brown Sand with Caliche	Y ✓ N	
	54	60	6	Red Sand	Y ✓ N	
	60	61	1	Light Reddish Brown Sandy Gravel	Y ✓ N	
	61	75	14	Dark Reddish brown Silty Clayey Sand	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Boring location drilled only as a soil boring and plugged after completion per well plugging plan.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:  <u>LEE PETERSON</u> SIGNATURE OF DRILLER / PRINT SIGNEE NAME					
						<u>2/26/16</u> DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER

POD NUMBER

TRN NUMBER

LOCATION

PAGE 2 OF 2

Tom Blaine, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 581433
File Nbr: C 03932
Well File Nbr: C 03932 POD8

Mar. 09, 2016

ROBERT H HOLDER
BRYCE KRAGER
4222 85TH ST
LUBBOCK, TX 79423

Greetings:

The above numbered permit was issued in your name on 01/27/2016.

The Well Record was received in this office on 03/01/2016, stating that it had been completed on 02/09/2016, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/14/2017.

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

Sincerely,

Deborah Dunaway
(575) 622-6521

drywell



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER)				OSE FILE NUMBER(S)			
	S15-BH-03				C 03932			
	WELL OWNER NAME(S)				PHONE (OPTIONAL)			
	Bryce Krager % Parkhill, Smith & Cooper Attention: R.H. Holder							
	WELL OWNER MAILING ADDRESS				CITY STATE ZIP			
4222 85th Street				Lubbock Texas 79423				
WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84				
	LATITUDE	32	12					50.55 N
	LONGITUDE	103	27	28.96 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
SW 1/4 of SW 1/4 of NW 1/4 of SE 1/4 of Section 15, Township 24S, Range 34E								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER		NAME OF LICENSED DRILLER			NAME OF WELL DRILLING COMPANY		
	WD-1222		Lee Peterson			Peterson Drilling & Testing, Inc.		
	DRILLING STARTED		DRILLING ENDED		DEPTH OF COMPLETED WELL (FT)		BORE HOLE DEPTH (FT)	
	02/10/16		02/11/16				90'	
	COMPLETED WELL IS:		STATIC WATER LEVEL IN COMPLETED WELL (FT)					
	☐ ARTESIAN		☒ DRY HOLE ☐ SHALLOW (UNCONFINED)					
	DRILLING FLUID:		ADDITIVES - SPECIFY:					
	☒ AIR ☐ MUD							
	DRILLING METHOD:		OTHER - SPECIFY:					
	☒ ROTARY ☐ HAMMER ☐ CABLE TOOL							
DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)	
FROM	TO							
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 10/29/15)

FILE NUMBER	C-3932	POD NUMBER	13	TRN NUMBER	581433
LOCATION	24S.34E.15.4.2.3			EXPL	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	6	6	Light Reddish Brown Fine Sand	Y ✓ N	
	6	13	7	Light Reddish Brown Sand with Caliche	Y ✓ N	
	13	19	6	Light Reddish Brown Fine Sand	Y ✓ N	
	19	29	10	Tan-White Caliche with Light Reddish Brown Sand	Y ✓ N	
	29	39	10	Light Reddish Brown Sand	Y ✓ N	
	39	45	6	Gray to Dark Gray Sand	Y ✓ N	
	45	54	9	Gray-Dark Gray Sand with Sandstone Pebbles	Y ✓ N	
	54	55	1	Dark Reddish Brown to Light Reddish Brown Silty Claystone	Y ✓ N	
	55	58	3	Green to Gray Shale	Y ✓ N	
	58	62	4	Dark Reddish Brown Silty Claystone	Y ✓ N	
	62	74	12	Dark Reddish Brown Claystone	Y ✓ N	
	74	75	1	Light Brown to Gray Silty Clay	Y ✓ N	
	75	77	2	Dark Reddish Brown Claystone	Y ✓ N	
	77	79	2	Light Brown to Gray Silty Clay	Y ✓ N	
	79	80	1	Dark Reddish Brown Claystone	Y ✓ N	
	80	82	2	Light Brown to Gray Sandy Silt	Y ✓ N	
	82	87	5	Dark Reddish Brown Clayey Silt	Y ✓ N	
	87	90	3	Light Brown to Gray Silty Sand	Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Boring location drilled only as a soil boring and plugged after completion per well plugging plan.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE

FOR USE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER	C-3932	POD NUMBER	13	TRN NUMBER	581433
LOCATION	24S.34E.13.4-2-3			EXPL.	PAGE 2 OF 2

Tom Blaine, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 581433
File Nbr: C 03932
Well File Nbr: C 03932 POD13

Mar. 28, 2016

ROBERT H HOLDER
BRYCE KRAGER
4222 85TH ST
LUBBOCK, TX 79423

Greetings:

The above numbered permit was issued in your name on 01/27/2016.

The Well Record was received in this office on 03/01/2016, stating that it had been completed on 02/11/2016, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/14/2017.

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

Sincerely,

A handwritten signature in black ink, appearing to read "D. Dunaway".

Deborah Dunaway
(575) 622-6521

drywell



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

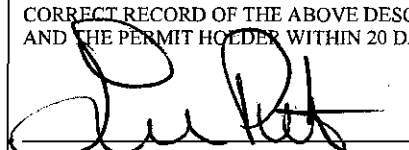
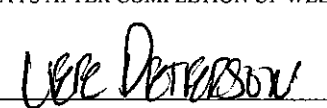
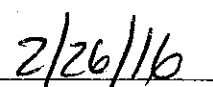
1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) S15-BH-03				OSE FILE NUMBER(S) C 03932			
	WELL OWNER NAME(S) Bryce Krager % Parkhill, Smith & Cooper Attention: R.H. Holder				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 4222 85th Street				CITY Lubbock		STATE Texas	ZIP 79423
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE		MINUTES 32	SECONDS 12	50.55	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
		LONGITUDE		103	27	28.96	W	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW 1/4 of SW 1/4 of NW 1/4 of SE 1/4 of Section 15, Township 24S, Range 34E								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1222		NAME OF LICENSED DRILLER Lee Peterson				NAME OF WELL DRILLING COMPANY Peterson Drilling & Testing, Inc.	
	DRILLING STARTED 02/10/16		DRILLING ENDED 02/11/16		DEPTH OF COMPLETED WELL (FT)		BORE HOLE DEPTH (FT) 90'	
	COMPLETED WELL IS:		☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)				DEPTH WATER FIRST ENCOUNTERED (FT)	
	DRILLING FLUID:		☒ AIR ☐ MUD ADDITIVES - SPECIFY:				STATIC WATER LEVEL IN COMPLETED WELL (FT)	
	DRILLING METHOD:		☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:					
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 10/29/15)

FILE NUMBER	C-3932	POD NUMBER	13	TRN NUMBER	581433
LOCATION	245.34E 15.3.2.4				EXP/
					PAGE 1 OF 2

PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	6	6	Light Reddish Brown Fine Sand	Y ✓ N	
	6	13	7	Light Reddish Brown Sand with Caliche	Y ✓ N	
	13	19	6	Light Reddish Brown Fine Sand	Y ✓ N	
	19	29	10	Tan-White Caliche with Light Reddish Brown Sand	Y ✓ N	
	29	39	10	Light Reddish Brown Sand	Y ✓ N	
	39	45	6	Gray to Dark Gray Sand	Y ✓ N	
	45	54	9	Gray-Dark Gray Sand with Sandstone Pebbles	Y ✓ N	
	54	55	1	Dark Reddish Brown to Light Reddish Brown Silty Claystone	Y ✓ N	
	55	58	3	Green to Gray Shale	Y ✓ N	
	58	62	4	Dark Reddish Brown Silty Claystone	Y ✓ N	
	62	74	12	Dark Reddish Brown Claystone	Y ✓ N	
	74	75	1	Light Brown to Gray Silty Clay	Y ✓ N	
	75	77	2	Dark Reddish Brown Claystone	Y ✓ N	
	77	79	2	Light Brown to Gray Silty Clay	Y ✓ N	
	79	80	1	Dark Reddish Brown Claystone	Y ✓ N	
	80	82	2	Light Brown to Gray Sandy Silt	Y ✓ N	
	82	87	5	Dark Reddish Brown Clayey Silt	Y ✓ N	
	87	90	3	Light Brown to Gray Silty Sand	Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Boring location drilled only as a soil boring and plugged after completion per well plugging plan.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:					
	 					
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME					DATE

FOR OSE INTERNAL USE

FILE NUMBER	C-3932	POD NUMBER	13	WR-20 WELL RECORD & LOG (Version 06/08/2012)
LOCATION	24S.34E.13.3-2-4	TRN NUMBER	581433	
			EXPL	PAGE 2 OF 2

Tom Blaine, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 581433
File Nbr: C 03932
Well File Nbr: C 03932 POD13

Apr. 12, 2016

ROBERT H. HOLDER
BRYCE KARGER
4222 85TH ST.
LUBBOCK, TX 79423

Greetings:

The above numbered permit was issued in your name on 01/27/2016.

The Well Record was received in this office on 03/01/2016, stating that it had been completed on 02/11/2016, and was a dry well. The well is to be plugged or capped or otherwise maintained in a manner satisfactory to the State Engineer.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 01/14/2017.

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

Sincerely,

Deborah Dunaway
(575) 622-6521

drywell

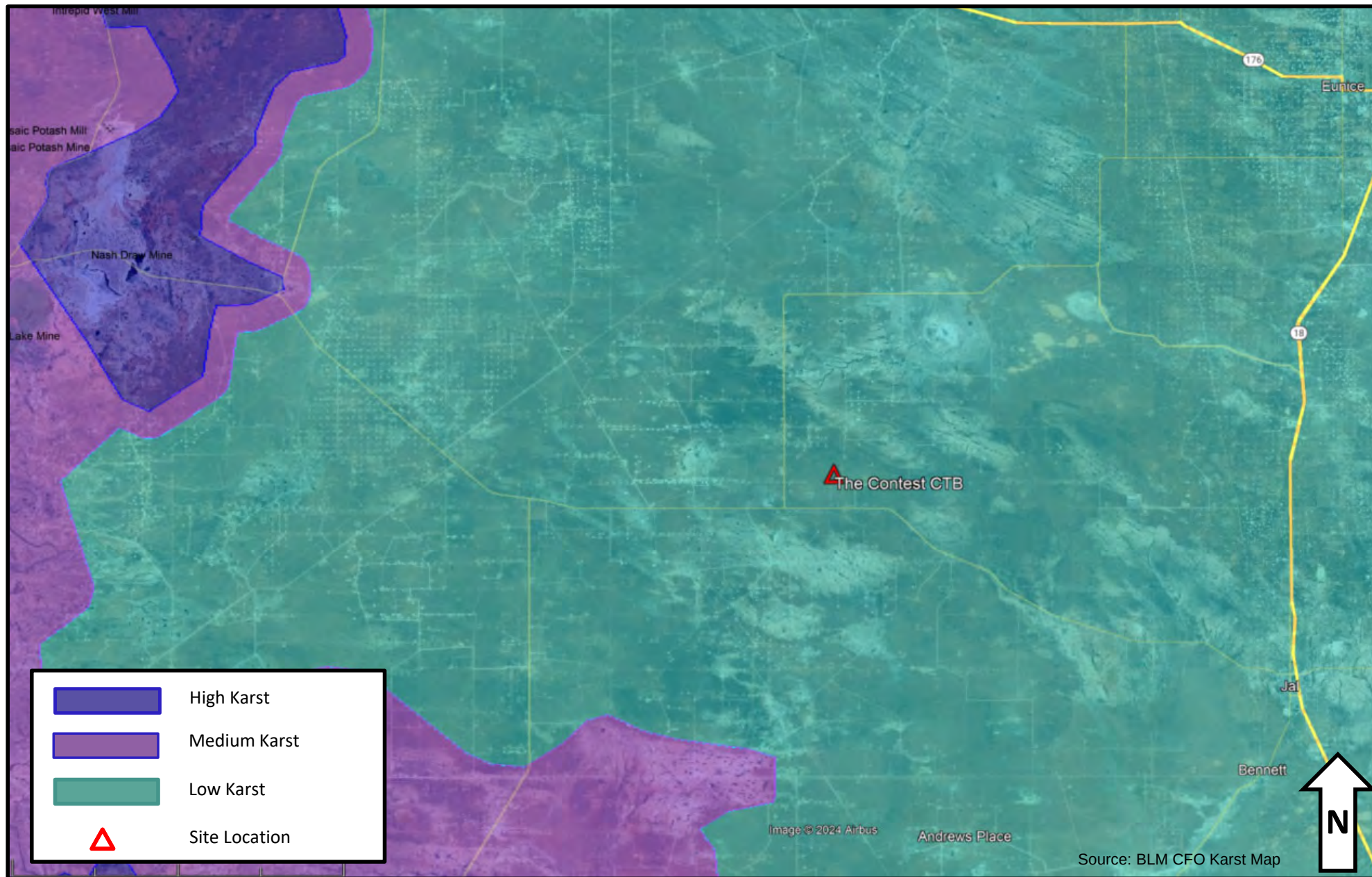


Figure 4 – Karst Potential

Civitas Resources – The Contest Federal CTB
GPS: 32.22997,-103.47905
Lea County, New Mexico



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
The Contest Federal CTB
Lea County, New Mexico



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
Delineation Soil Samples - nAPP2327037534									
HA-1	08/08/24	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	41.0
HA-1	08/08/24	1	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	29.1
HA-1	08/08/24	4	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	19.6
HA-2	08/08/24	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	186
HA-2	08/08/24	1	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	66.1
HA-2	08/08/24	4	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	27.6
HA-3	08/08/24	0.5	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	81.4
HA-3	08/08/24	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	37.1
HA-4	08/08/24	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	18.4
HA-4	08/08/24	1	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	15.1
HA-5	08/08/24	0.5	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	133
HA-5	08/08/24	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	107
HA-5	08/08/24	4	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	47.8
Confirmation Soil Samples - nAPP2327037534									
CS01	08/02/24	4	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	8.49
CS02	08/02/24	4	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	63.6
CS03	08/02/24	4	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	41.2
CS04	08/02/24	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	76.4
CS05	08/02/24	4	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	55.2
CS06	08/02/24	4	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	48.7
CS07	08/02/24	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	40.4
CS08	08/02/24	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	21.9
CS09	08/02/24	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	46.4
CS10	08/02/24	4	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	8.10
CS11	08/02/24	4	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	8.81



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
The Contest Federal CTB
Lea County, New Mexico



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
CS12	08/02/24	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	55.2
CS13	08/02/24	4	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	5.04
CS14	08/02/24	4	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	40.6
CS15	08/02/24	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	33.5
CS16	08/02/24	4	<0.00202	<0.00404	<49.6	<49.6	<49.6	<49.6	45.1
CS17	08/02/24	4	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	6.67
CS18	08/02/24	4	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	40.6
CS19	08/02/24	4	<0.00200	<0.00400	<49.6	<49.6	<49.6	<49.6	45.4
CS20	08/02/24	4	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	44.2
CS21	08/02/24	4	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	30.4
CS22	08/02/24	4	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	8.13
CS23	08/02/24	4	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	38.5
CS24	08/02/24	4	<0.00201	<0.00402	<49.9	67.7	<49.9	67.7	8.33
CS25	08/02/24	4	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	48.5
CS26	08/02/24	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	45.9
CS27	08/02/24	4	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	39.7
CS28	08/02/24	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	5.04
CS29	08/02/24	4	<0.00200	<0.00400	<50.1	<50.1	<50.1	<50.1	<4.96
CS30	08/02/24	4	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	9.99
CS31	08/02/24	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	38.5
CS32	08/02/24	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	42.3
CS33	08/02/24	4	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	50.5
CS34	08/02/24	4	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	40.8
CS35	08/02/24	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	48.9
CS36	08/02/24	4	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	32.8
CS37	08/02/24	6	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<4.97



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
The Contest Federal CTB
Lea County, New Mexico



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
CS38	08/02/24	6	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	38.2
CS39	08/02/24	1	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	49.8
CS40	08/02/24	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	72.8
CS41	08/07/24	4	<0.00404	<0.00202	<49.8	<49.8	<49.8	<49.8	<5.02
CS42	08/07/24	4	<0.00402	<0.00201	<49.9	<49.9	<49.9	<49.9	5.51
CS43	08/07/24	4	<0.00399	<0.00200	<50.0	<50.0	<50.0	<50.0	<5.01
CS44	08/07/24	4	<0.00398	<0.00199	<49.7	<49.7	<49.7	<49.7	31.1
CS45	08/07/24	1	<0.00398	<0.00199	<49.8	<49.8	<49.8	<49.8	4.98
CS46	08/07/24	4	<0.00402	<0.00201	<50.0	<50.0	<50.0	<50.0	8.10
CS47	08/07/24	4	<0.00399	<0.00200	<49.9	<49.9	<49.9	<49.9	44.3
CS48	08/07/24	4	<0.00400	<0.00200	<50.0	<50.0	<50.0	<50.0	<4.97
CS49	08/07/24	1	<0.00398	<0.00199	<49.8	<49.8	<49.8	<49.8	7.48
CS50	08/07/24	2	<0.00398	<0.00199	<49.7	<49.7	<49.7	<49.7	7.67
CS51	08/07/24	2	0.449	<0.00201	<49.8	<49.8	<49.8	<49.8	<4.97
CS52	08/07/24	4	0.00906	<0.00199	<49.8	<49.8	<49.8	<49.8	<4.95
CS53	08/07/24	4	<0.00404	<0.00202	<49.8	<49.8	<49.8	<49.8	<5.05
CS54	08/07/24	4	<0.00399	<0.00200	<49.7	<49.7	<49.7	<49.7	<5.05
CS55	08/07/24	4	<0.00404	<0.00202	<49.9	<49.9	<49.9	<49.9	<4.96
CS56	08/08/24	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	90.9
CS57	08/08/24	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	88.4
CS58	08/08/24	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	95.6
CS59	08/08/24	0.5	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	92.1
CS60	08/08/24	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	96.9
SW01	08/02/24	0-6	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	28.4
SW02	08/02/24	0-4	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	32.6
SW03	08/02/24	0-4	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	31.6



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
The Contest Federal CTB
Lea County, New Mexico



Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
SW04	08/02/24	0-4	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	27.8
SW05	08/02/24	0-4	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	37.2
SW06	08/02/24	0-4	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	40.4
SW07	08/02/24	0-4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	35.1
SW08	08/02/24	0-4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	35.0
SW09	08/02/24	0-4	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	221
SW10	08/07/24	0-4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	5.09
SW11	08/07/24	0-4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	28.0
SW12	08/07/24	0-4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	31.6
SW13	08/07/24	0-4	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	34.0
SW14	08/07/24	0-4	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<4.97
SW15	08/07/24	0-4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	5.57
SW16	08/08/24	0-0.5	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	12.4
SW17	08/08/24	0-0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	14.3

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.

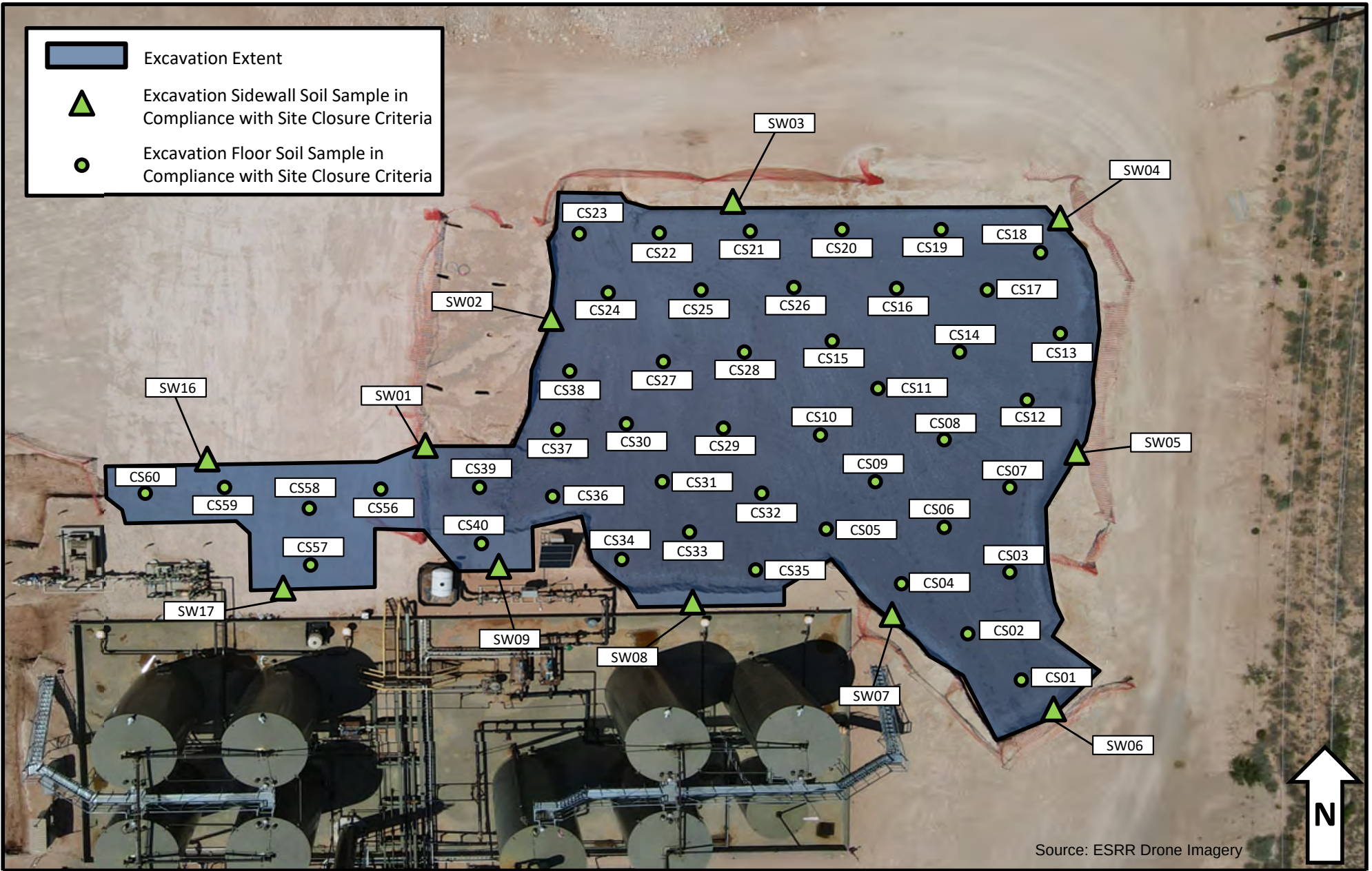


Figure 5 – Excavation Soil Sample Locations

Civitas Resources – The Contest Federal CTB
GPS: 32.22997,-103.47905
Lea County, New Mexico

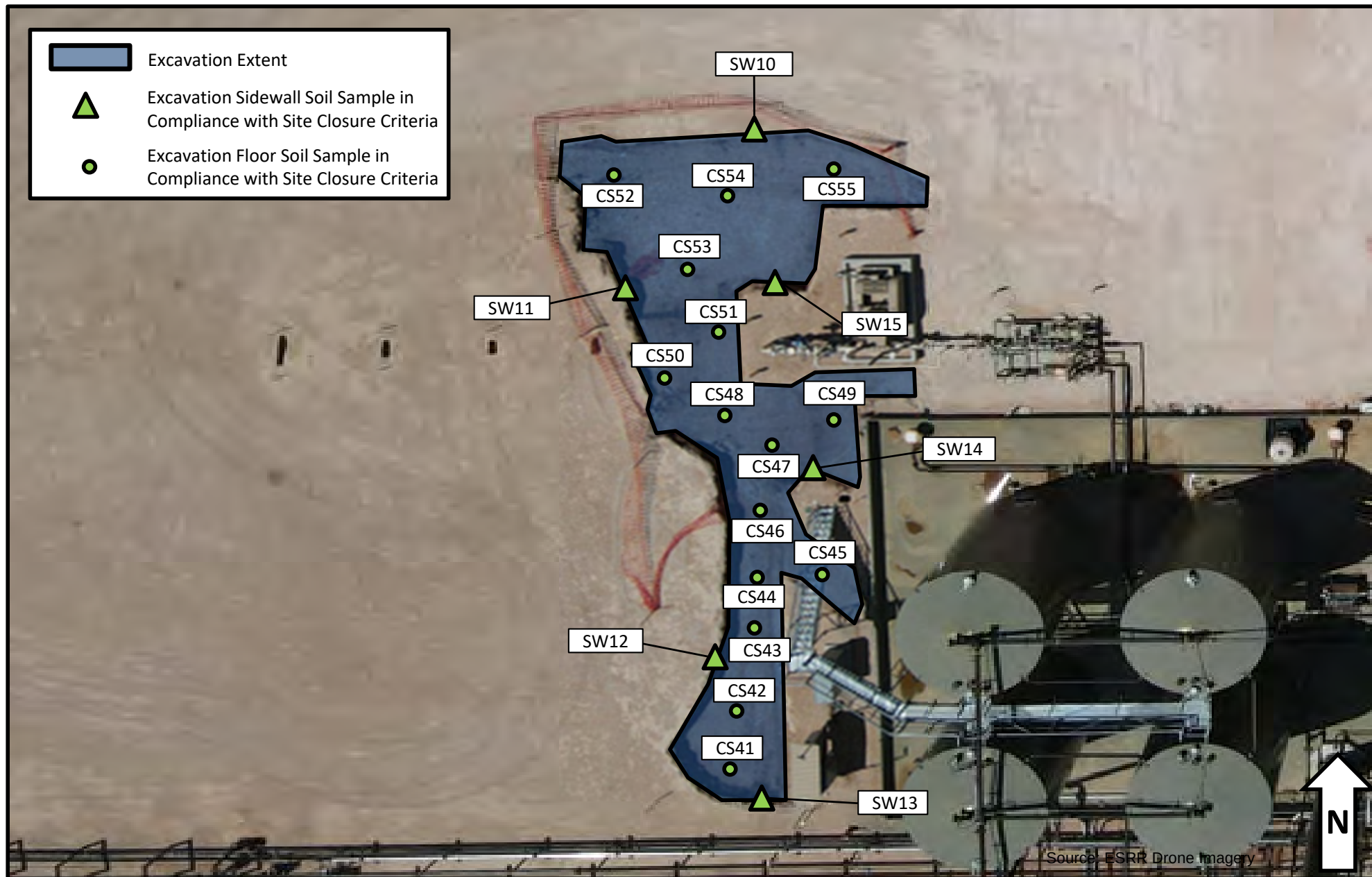


Figure 6 – Excavation Soil Sample Locations

Civitas Resources – The Contest Federal CTB
GPS: 32.22997,-103.47905
Lea County, New Mexico

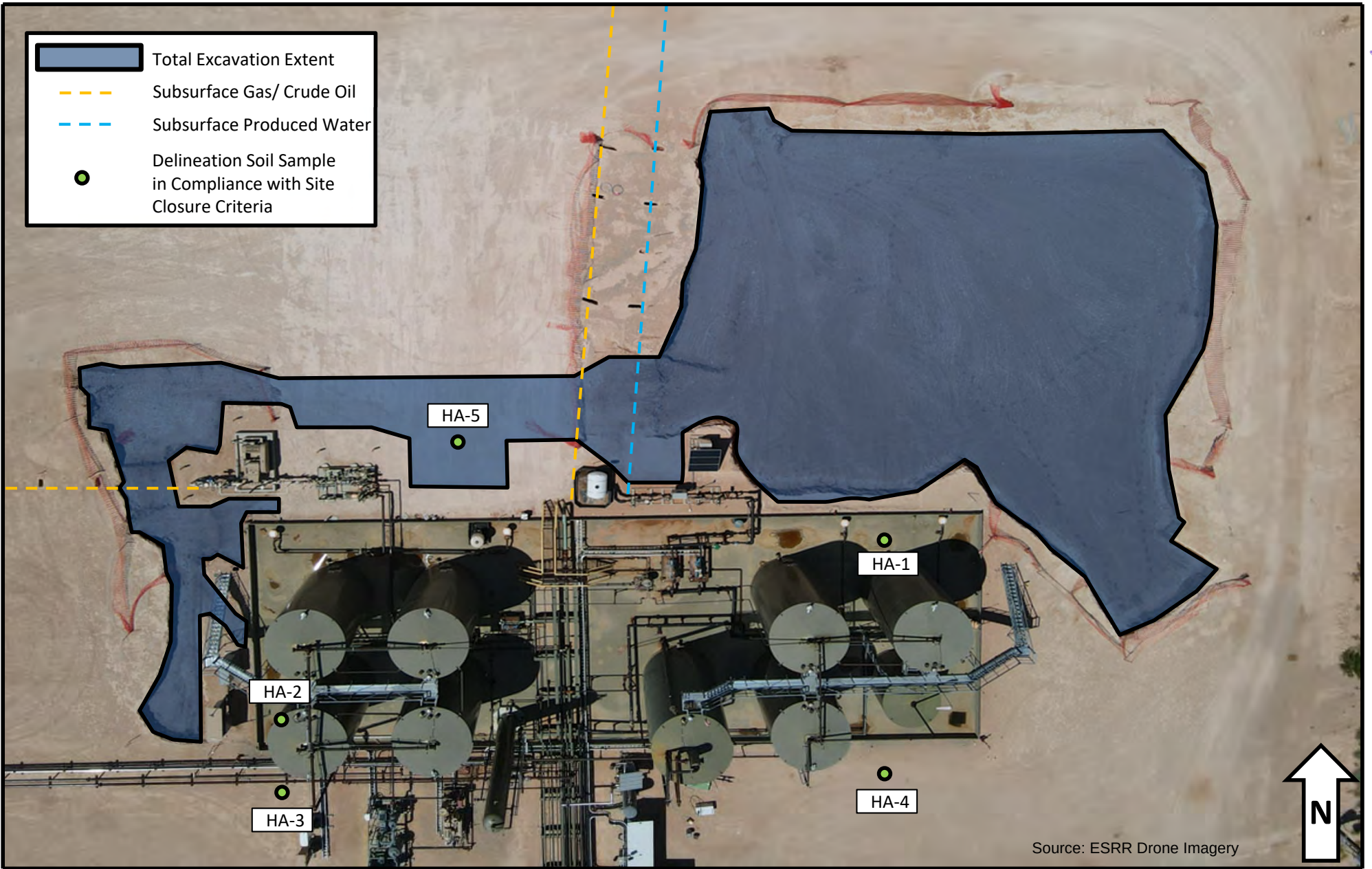


Figure 7 – Delineation Soil Sample Locations

Civitas Resources – The Contest Federal CTB
GPS: 32.22997,-103.47905
Lea County, New Mexico

								Sample Name: HA-1		Date: 8/08/2024	
								Site Name: The Contest Federal CTB			
								Incident Number: nAPP2327037534			
								Job Number: 2288			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Hand Auger	
Site Coordinates: 32.22871, -103.47959								Hole Diameter: 3.75"		Total Depth: 4 feet bgs	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<120	-	No	HA-1	0.5	0	CCHE	(0-1') CALICHE, dry, tan, well graded with silt, fine to medium grain, abundant small to large subround gravel, no stain, no odor.			
Dry	<120	-	No	HA-1	1		SP	(1-4') SAND, dry, brown, poorly graded, fine grain, trace silt, trace clay, trace small subround gravel, no stain, no odor.			
Dry	<120	-	No		2	2		@2' trace organics			
								@4' no organics, no gravel			
Dry	<120	-	No	HA-1	4	4		Total Depth			

								Sample Name: HA-2		Date: 8/08/2024	
								Site Name: The Contest Federal CTB			
								Incident Number: nAPP2327037534			
								Job Number: 2288			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Hand Auger	
Site Coordinates: 32.22871, -103.47959								Hole Diameter: 3.75"		Total Depth: 4 feet bgs	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	140	-	No	HA-2	0.5	0	CCHE	(0-1') CALICHE, dry, tan, well graded with silt, fine to medium grain, abundant small to large subround gravel, no stain, no odor.			
Dry	<120	-	No	HA-2	1		SW-SM	(1-2') SAND, dry, brown, well graded with silt, fine grain, abundant small subangular caliche gravel, no stain, no odor.			
Dry	<120	-	No		2	2	SP	(2-4') SAND, dry, brown, poorly graded, fine grain, trace silt, trace clay, trace small subangular caliche gravel, no stain, no odor.			
								@4' increase in gravel			
Dry	<120	-	No	HA-2	4	4		Total Depth			

								Sample Name: HA-3		Date: 8/08/2024	
								Site Name: The Contest Federal CTB			
								Incident Number: nAPP2327037534			
								Job Number: 2288			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Hand Auger	
Site Coordinates: 32.22871, -103.47959								Hole Diameter: 3.75"		Total Depth: 1 foot bgs	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<120	-	No	HA-3	0.5	0	CCHE	(0-1') CALICHE, dry, tan, well graded with silt, fine to medium grain, abundant small to large subround gravel, no stain, no odor.			
Dry	<120	-	No	HA-3	1	1					
Total Depth											

								Sample Name: HA-4		Date: 8/08/2024	
								Site Name: The Contest Federal CTB			
								Incident Number: nAPP2327037534			
								Job Number: 2288			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Hand Auger	
Site Coordinates: 32.22871, -103.47959								Hole Diameter: 3.75"		Total Depth: 1 foot bgs	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<120	-	No	HA-4	0.5	0	CCHE	(0-1') CALICHE, dry, tan, well graded with silt, fine to medium grain, abundant small to large subround gravel, no stain, no odor.			
Dry	<120	-	No	HA-4	1	1					
Total Depth											

								Sample Name: HA-5		Date: 8/08/2024	
								Site Name: The Contest Federal CTB			
								Incident Number: nAPP2327037534			
								Job Number: 2288			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: GM		Method: Hand Auger	
Site Coordinates: 32.22871, -103.47959								Hole Diameter: 3.75"		Total Depth: 4 feet bgs	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	140	-	No	HA-5	0.5	0	CCHE	(0-1') CALICHE, dry, tan, well graded with silt, fine to medium grain, abundant small to large subround gravel, no stain, no odor.			
Dry	<120	-	No	HA-5	1		SP	(1-4') SAND, dry, reddish brown, poorly graded, fine grain, trace silt, trace clay, trace small subangular caliche gravel, no stain, no odor.			
Dry	<120	-	No		2	2					
Dry	<120	-	No	HA-5	4	4					
Total Depth											

The Contest Federal CTB - Closure Request Report
Incident Number nAPP2327037534
GPS: 32.22871, -103.47959



PHOTO 1: Northwest view of AOC during initial response by Tap Rock. 09/19/2023



PHOTO 2: Northwest view of AOC during initial response by Tap Rock. 09/19/2023

The Contest Federal CTB - Closure Request Report
Incident Number nAPP2327037534
GPS: 32.22871, -103.47959



PHOTO 3: Northeast view of excavation extent. 8/02/2024



PHOTO 4: Northwest view of excavation extent. 8/02/2024

The Contest Federal CTB - Closure Request Report
Incident Number nAPP2327037534
GPS: 32.22871, -103.47959



PHOTO 5: Southeast view of excavation extent. 8/02/2024



PHOTO 6: Southeast view of potential pinhole during liner inspection activities. 8/08/2024

The Contest Federal CTB - Closure Request Report
Incident Number nAPP2327037534
GPS: 32.22871, -103.47959



PHOTO 7: Northeast view during delineation activities of HA-1. 8/08/2024



PHOTO 8: Southwest view during delineation activities of HA-2. 8/08/2024

The Contest Federal CTB - Closure Request Report
Incident Number nAPP2327037534
GPS: 32.22871, -103.47959

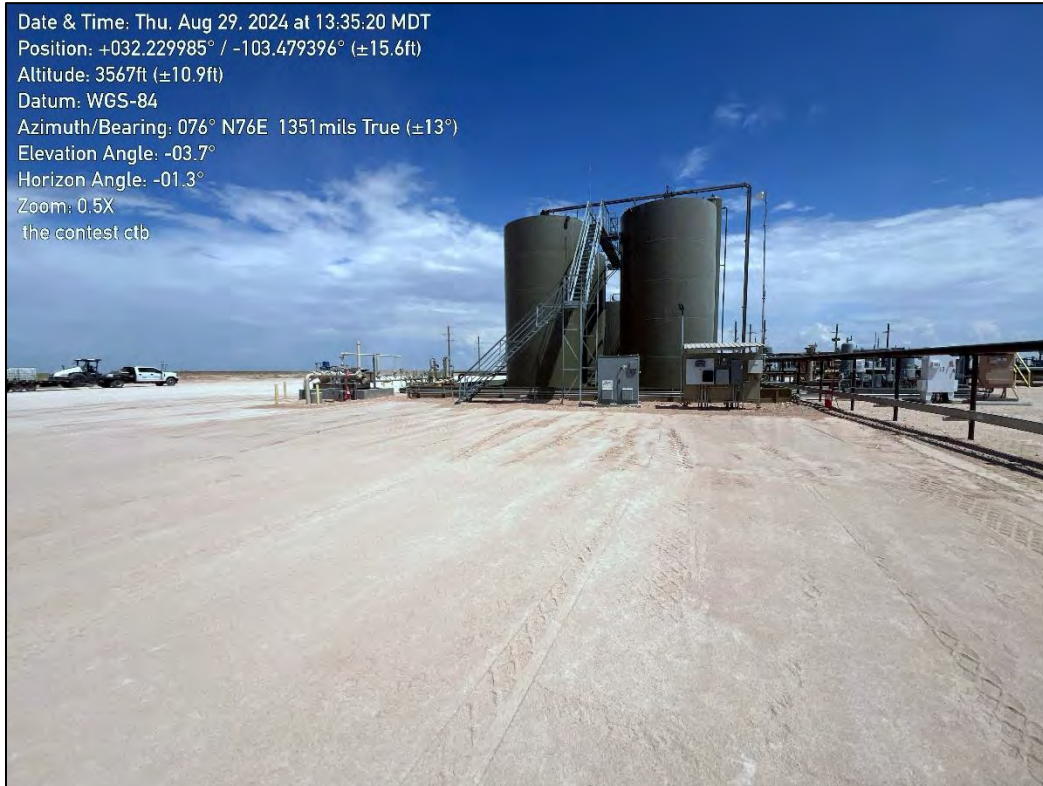


PHOTO 9: Northeast view during Site restoration activities. 8/29/2024



PHOTO 10: Southeast view during Site restoration activities. 8/29/2024

Sampling Notification- Incident Number nAPP2327037534

Gilbert Moreno <gmoreno@earthsys.net>

Wed 7/31/2024 6:42 AM

To: ocd.enviro@emnrd.nm.gov <ocd.enviro@emnrd.nm.gov>
Cc: Luke Kelly <lkelly@civiresources.com>; Kristopher Williams <kwilliams@earthsys.net>

Hello,

Civitas Resources anticipates conducting soil sampling activities at the following Site on August 2nd, August 7th and August 8th, 2024. This email will be followed up with a Notification of Sampling (C-141N) for the proposed dates.

Proposed Time:	08:30-17:00 MST
Site Name:	The Contest CTB
Incident Number:	nAPP2327037534
Sampling Surface Area:	10,553 sqft
Samples to be collected:	70
Sampling Date:	08/02/2024, 08/07/2024, 08/08/2024
Who to Contact:	Gilbert Moreno
Navigation to Site:	From the intersection of Hwy 128 and Wyoming road, Drive NW on Hwy 128 for 16.46 miles; Turn N onto lease road and drive 0.83 miles; Turn W onto lease road and drive 0.25 miles; Turn NW onto lease road and drive 0.30 miles; Turn N onto lease road and drive 0.08 miles; Turn W and drive 0.34 miles onto the pad. Turn N and drive to the N side of the pad

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



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 369407

QUESTIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 369407
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2327037534
Incident Name	NAPP2327037534 THE CONTEST FEDERAL CTB @ 30-025-46673
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-46673] THE CONTEST FEDERAL COM #131H
Incident Facility	[fAPP2126033053] THE CONTEST CTB

Location of Release Source	
Site Name	THE CONTEST FEDERAL CTB
Date Release Discovered	09/19/2023
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	10,553
What is the estimated number of samples that will be gathered	70
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/02/2024
Time sampling will commence	08:30 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Gilbert Moreno - 832-541-7719
Please provide any information necessary for navigation to sampling site	From the intersection of Hwy 128 and Wyoming road, Drive NW on Hwy 128 for 16.46 miles; Turn N onto lease road and drive 0.83 miles; Turn W onto lease road and drive 0.25 miles; Turn NW onto lease road and drive 0.30 miles; Turn N onto lease road and drive 0.08 miles; Turn W and drive 0.34 miles onto the pad. Turn N and drive to the N side of the pad

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CONDITIONS

Action 369407

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 369407
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
lkelly	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.	8/1/2024

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Santa Fe, NM 87505

QUESTIONS

Action 369418

QUESTIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 369418
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2327037534
Incident Name	NAPP2327037534 THE CONTEST FEDERAL CTB @ 30-025-46673
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-46673] THE CONTEST FEDERAL COM #131H
Incident Facility	[fAPP2126033053] THE CONTEST CTB

Location of Release Source

Site Name	THE CONTEST FEDERAL CTB
Date Release Discovered	09/19/2023
Surface Owner	Federal

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	10,533
What is the estimated number of samples that will be gathered	70
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/07/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Gilbert Moreno - (832) 541-7719
Please provide any information necessary for navigation to sampling site	From the intersection of Hwy 128 and Wyoming road, Drive NW on Hwy 128 for 16.46 miles; Turn N onto lease road and drive 0.83 miles; Turn W onto lease road and drive 0.25 miles; Turn NW onto lease road and drive 0.30 miles; Turn N onto lease road and drive 0.08 miles; Turn W and drive 0.34 miles onto the pad. Turn N and drive to the N side of the pad

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CONDITIONS

Action 369418

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 369418
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
lkelly	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.	8/1/2024

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QUESTIONS

Action 369420

QUESTIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 369420
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2327037534
Incident Name	NAPP2327037534 THE CONTEST FEDERAL CTB @ 30-025-46673
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-46673] THE CONTEST FEDERAL COM #131H
Incident Facility	[fAPP2126033053] THE CONTEST CTB

Location of Release Source

Site Name	THE CONTEST FEDERAL CTB
Date Release Discovered	09/19/2023
Surface Owner	Federal

Sampling Event General Information*Please answer all the questions in this group.*

What is the sampling surface area in square feet	10,553
What is the estimated number of samples that will be gathered	70
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/08/2024
Time sampling will commence	08:30 AM
Please provide any information necessary for observers to contact samplers	Gilbert Moreno - (832) 541-7719
Please provide any information necessary for navigation to sampling site	From the intersection of Hwy 128 and Wyoming road, Drive NW on Hwy 128 for 16.46 miles; Turn N onto lease road and drive 0.83 miles; Turn W onto lease road and drive 0.25 miles; Turn NW onto lease road and drive 0.30 miles; Turn N onto lease road and drive 0.08 miles; Turn W and drive 0.34 miles onto the pad. Turn N and drive to the N side of the pad

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CONDITIONS

Action 369420

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 369420
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
lkelly	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.	8/1/2024

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QUESTIONS

Action 369411

QUESTIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 369411
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2327037534
Incident Name	NAPP2327037534 THE CONTEST FEDERAL CTB @ 30-025-46673
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-46673] THE CONTEST FEDERAL COM #131H
Incident Facility	[fAPP2126033053] THE CONTEST CTB

Location of Release Source

Site Name	THE CONTEST FEDERAL CTB
Date Release Discovered	09/19/2023
Surface Owner	Federal

Liner Inspection Event Information*Please answer all the questions in this group.*

What is the liner inspection surface area in square feet	8,117
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	08/08/2024
Time liner inspection will commence	08:00 AM
Please provide any information necessary for observers to liner inspection	Gilbert Moreno - 832-541-7719
Please provide any information necessary for navigation to liner inspection site	From the intersection of Hwy 128 and Wyoming road, Drive NW on Hwy 128 for 16.46 miles; Turn N onto lease road and drive 0.83 miles; Turn W onto lease road and drive 0.25 miles; Turn NW onto lease road and drive 0.30 miles; Turn N onto lease road and drive 0.08 miles; Turn W and drive 0.34 miles onto the pad. Turn N and drive to the N side of the pad

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CONDITIONS

Action 369411

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 369411
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
lkelly	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	8/1/2024

RE: [EXTERNAL] The Contest Federal CTB Extension Request- nAPP2327037534**Buchanan, Michael, EMNRD** <Michael.Buchanan@emnrd.nm.gov>

Wed 9/4/2024 8:54 AM

To: Gilbert Moreno <gmoreno@earthsys.net>; Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Cc: Luke Kelly <lkelly@civiresources.com>; Joel Lujan <jlujan@civiresources.com>; Kristopher Williams <kwilliams@earthsys.net>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

You don't often get email from michael.buchanan@emnrd.nm.gov. [Learn why this is important](#)

Good morning, Mr. Moreno

The OCD has received your request for a remediation closure extension and is approved for sixty (60) days from 09/04/2024. The new due date for submission is now 11/04/2024. Please keep a copy of this notification and correspondence in the incident file and as part of future documentation and/or reporting.

Thank you,

From: Gilbert Moreno <gmoreno@earthsys.net>**Sent:** Wednesday, September 4, 2024 9:05 AM**To:** Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>**Cc:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Luke Kelly <lkelly@civiresources.com>; Joel Lujan <jlujan@civiresources.com>; Kristopher Williams <kwilliams@earthsys.net>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>**Subject:** [EXTERNAL] The Contest Federal CTB Extension Request- nAPP2327037534

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

Scott,

Earth Systems R & R (ESRR) on behalf of Civitas Resources (Civitas) is requesting an extension to the current deadline for a report required in 19.15.29.12.B(1) NMAC at The Contest Federal CTB (Site).

A produced water release was discovered on September 19, 2023, and was subsequently assigned Incident Number nAPP2327037534 at a former Tap Rock Operating location. During early 2024, a Tap Rock contracted third-party oversaw the excavation of an estimated 2,100 cubic yards via mechanical equipment. Since excavation activities, Civitas has acquired this Site from Tap Rock Operating and the original third-party consultant was not retained.

Civitas requests an extension of the past due deadline for the release associated with Incident Number nAPP2327037534 in order to get back in compliance prior to submitting a subsequent corrective action report completed by ESRR.

Gilbert Moreno | Carlsbad Operations Manager- Project Geologist

1910 Resource Ct | Carlsbad NM, 88220

O. 575.323.9034 M. (832) 541-7719 | gmoreno@earthsys.net





Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 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 8/8/2024 9:50:54 AM

JOB DESCRIPTION

The Contest CTB
Lea County, NM

JOB NUMBER

890-6973-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



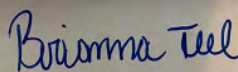
Eurofins Carlsbad

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
8/8/2024 9:50:54 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: The Contest CTB

Laboratory Job ID: 890-6973-1
SDG: Lea County,NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	36
QC Sample Results	39
QC Association Summary	49
Lab Chronicle	58
Certification Summary	69
Method Summary	70
Sample Summary	71
Chain of Custody	72
Receipt Checklists	76

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high 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
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.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
α	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: The Contest CTB

Job ID: 890-6973-1

Job ID: 890-6973-1

Eurofins Carlsbad

Job Narrative 890-6973-1

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 8/2/2024 3:31 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 3.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS 01 (890-6973-1), CS 02 (890-6973-2), CS 03 (890-6973-3), CS 04 (890-6973-4), CS 05 (890-6973-5), CS 06 (890-6973-6), CS 07 (890-6973-7), CS 08 (890-6973-8), CS 09 (890-6973-9), CS 10 (890-6973-10), CS 11 (890-6973-11), CS 12 (890-6973-12), CS 13 (890-6973-13), CS 14 (890-6973-14), CS 15 (890-6973-15), CS 16 (890-6973-16), CS 17 (890-6973-17), CS 18 (890-6973-18), CS 19 (890-6973-19), CS 20 (890-6973-20), CS 21 (890-6973-21), CS 22 (890-6973-22), CS 23 (890-6973-23), CS 24 (890-6973-24), CS 25 (890-6973-25), CS 26 (890-6973-26), CS 27 (890-6973-27), CS 28 (890-6973-28), CS 29 (890-6973-29), CS 30 (890-6973-30), CS 31 (890-6973-31), CS 32 (890-6973-32), CS 33 (890-6973-33), CS 34 (890-6973-34), CS 35 (890-6973-35) and CS 36 (890-6973-36).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-87458 recovered under the lower control limit for m-Xylene & p-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-87487 and analytical batch 880-87458 was outside the upper control limits.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-87487 and analytical batch 880-87458 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.

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-87401 and analytical batch 880-87619 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 29 (890-6973-29), CS 30 (890-6973-30), CS 31 (890-6973-31), CS 32 (890-6973-32), CS 33 (890-6973-33), CS 34 (890-6973-34), CS 35 (890-6973-35), CS 36 (890-6973-36), (LCS 880-87446/2-A) and (LCSD 880-87446/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-87446 and analytical batch 880-87450 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-87446 and analytical batch 880-87450 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: CS 01

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Case Narrative

Client: Earth Systems Response and Restoration
Project: The Contest CTB

Job ID: 890-6973-1

Job ID: 890-6973-1 (Continued)

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(890-6973-1), CS 02 (890-6973-2), CS 03 (890-6973-3), CS 04 (890-6973-4), CS 05 (890-6973-5), CS 06 (890-6973-6), CS 07 (890-6973-7), CS 08 (890-6973-8), CS 10 (890-6973-10), CS 11 (890-6973-11), CS 12 (890-6973-12), CS 14 (890-6973-14), CS 17 (890-6973-17), CS 25 (890-6973-25), (890-6971-A-1-B MS) and (890-6971-A-1-C MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-87445/2-A) and (LCSD 880-87445/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: CS 24 (890-6973-24). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-87619 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-87619/21).

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-87553 and analytical batch 880-87649 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-87554 and analytical batch 880-87655 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 01

Lab Sample ID: 890-6973-1

Date Collected: 08/02/24 09:00

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 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		08/05/24 10:06	08/06/24 00:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:06	08/06/24 00:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:06	08/06/24 00:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/05/24 10:06	08/06/24 00:08	1
o-Xylene	<0.00202	U **	0.00202		mg/Kg		08/05/24 10:06	08/06/24 00:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/05/24 10:06	08/06/24 00:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	08/05/24 10:06	08/06/24 00:08	1
1,4-Difluorobenzene (Surr)	106		70 - 130	08/05/24 10:06	08/06/24 00:08	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			08/06/24 00:08	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			08/06/24 16:02	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	<49.8	U	49.8		mg/Kg		08/02/24 15:06	08/06/24 16:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/02/24 15:06	08/06/24 16:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/02/24 15:06	08/06/24 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130	08/02/24 15:06	08/06/24 16:02	1
o-Terphenyl	150	S1+	70 - 130	08/02/24 15:06	08/06/24 16:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.49		4.97		mg/Kg			08/07/24 18:03	1

Client Sample ID: CS 02

Lab Sample ID: 890-6973-2

Date Collected: 08/02/24 09:10

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/05/24 10:06	08/06/24 00:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 00:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 00:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/24 10:06	08/06/24 00:29	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		08/05/24 10:06	08/06/24 00:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/24 10:06	08/06/24 00:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	08/05/24 10:06	08/06/24 00:29	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 02
Date Collected: 08/02/24 09:10
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	109		70 - 130				08/05/24 10:06	08/06/24 00:29	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			08/06/24 00:29	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			08/06/24 16:20	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	<49.7	U	49.7		mg/Kg		08/02/24 15:06	08/06/24 16:20	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/02/24 15:06	08/06/24 16:20	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/02/24 15:06	08/06/24 16:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	154	S1+	70 - 130				08/02/24 15:06	08/06/24 16:20	1
o-Terphenyl	156	S1+	70 - 130				08/02/24 15:06	08/06/24 16:20	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.6		5.03		mg/Kg			08/07/24 18:09	1

Client Sample ID: CS 03
Date Collected: 08/02/24 09:20
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-3
Matrix: Solid

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		08/05/24 10:06	08/06/24 00:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 00:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 00:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 10:06	08/06/24 00:49	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		08/05/24 10:06	08/06/24 00:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 10:06	08/06/24 00:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				08/05/24 10:06	08/06/24 00:49	1
1,4-Difluorobenzene (Surr)	110		70 - 130				08/05/24 10:06	08/06/24 00:49	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			08/06/24 00:49	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/06/24 16:38	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 03

Lab Sample ID: 890-6973-3

Date Collected: 08/02/24 09:20

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/02/24 15:06	08/06/24 16:38	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/02/24 15:06	08/06/24 16:38	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/02/24 15:06	08/06/24 16:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130				08/02/24 15:06	08/06/24 16:38	1
o-Terphenyl	144	S1+	70 - 130				08/02/24 15:06	08/06/24 16:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.2		5.03		mg/Kg			08/07/24 18:15	1

Client Sample ID: CS 04

Lab Sample ID: 890-6973-4

Date Collected: 08/02/24 09:30

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/05/24 10:06	08/06/24 01:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:06	08/06/24 01:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:06	08/06/24 01:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/24 10:06	08/06/24 01:10	1
o-Xylene	<0.00201	U *	0.00201		mg/Kg		08/05/24 10:06	08/06/24 01:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/24 10:06	08/06/24 01:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/05/24 10:06	08/06/24 01:10	1
1,4-Difluorobenzene (Surr)	114		70 - 130				08/05/24 10:06	08/06/24 01:10	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			08/06/24 01:10	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			08/06/24 16:56	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	<50.0	U	50.0		mg/Kg		08/02/24 15:06	08/06/24 16:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/24 15:06	08/06/24 16:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/24 15:06	08/06/24 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130				08/02/24 15:06	08/06/24 16:56	1
o-Terphenyl	163	S1+	70 - 130				08/02/24 15:06	08/06/24 16:56	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 04

Lab Sample ID: 890-6973-4

Date Collected: 08/02/24 09:30

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.4	F1	4.96		mg/Kg			08/07/24 07:24	1

Client Sample ID: CS 05

Lab Sample ID: 890-6973-5

Date Collected: 08/02/24 09:40

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 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		08/05/24 10:06	08/06/24 01:30	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:06	08/06/24 01:30	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:06	08/06/24 01:30	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/05/24 10:06	08/06/24 01:30	1
o-Xylene	<0.00202	U *	0.00202		mg/Kg		08/05/24 10:06	08/06/24 01:30	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/05/24 10:06	08/06/24 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				08/05/24 10:06	08/06/24 01:30	1
1,4-Difluorobenzene (Surr)	114		70 - 130				08/05/24 10:06	08/06/24 01:30	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			08/06/24 01:30	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			08/06/24 17:14	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	<49.8	U	49.8		mg/Kg		08/02/24 15:06	08/06/24 17:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/02/24 15:06	08/06/24 17:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/02/24 15:06	08/06/24 17:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	140	S1+	70 - 130				08/02/24 15:06	08/06/24 17:14	1
o-Terphenyl	143	S1+	70 - 130				08/02/24 15:06	08/06/24 17:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.2		4.96		mg/Kg			08/07/24 07:42	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 06

Lab Sample ID: 890-6973-6

Date Collected: 08/02/24 09:50

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/05/24 10:06	08/06/24 01:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:06	08/06/24 01:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:06	08/06/24 01:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/24 10:06	08/06/24 01:51	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		08/05/24 10:06	08/06/24 01:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/24 10:06	08/06/24 01:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/05/24 10:06	08/06/24 01:51	1
1,4-Difluorobenzene (Surr)	114		70 - 130	08/05/24 10:06	08/06/24 01:51	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			08/06/24 01:51	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			08/06/24 17:33	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	<49.8	U	49.8		mg/Kg		08/02/24 15:06	08/06/24 17:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/02/24 15:06	08/06/24 17:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/02/24 15:06	08/06/24 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	08/02/24 15:06	08/06/24 17:33	1
o-Terphenyl	141	S1+	70 - 130	08/02/24 15:06	08/06/24 17:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.7		4.98		mg/Kg			08/07/24 07:48	1

Client Sample ID: CS 07

Lab Sample ID: 890-6973-7

Date Collected: 08/02/24 10:00

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/05/24 10:06	08/06/24 02:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 02:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 02:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/24 10:06	08/06/24 02:11	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		08/05/24 10:06	08/06/24 02:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/24 10:06	08/06/24 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/05/24 10:06	08/06/24 02:11	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 07
Date Collected: 08/02/24 10:00
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	119		70 - 130				08/05/24 10:06	08/06/24 02:11	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			08/06/24 02:11	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			08/06/24 17:51	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	<49.9	U	49.9		mg/Kg		08/02/24 15:06	08/06/24 17:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/02/24 15:06	08/06/24 17:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/02/24 15:06	08/06/24 17:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				08/02/24 15:06	08/06/24 17:51	1
o-Terphenyl	132	S1+	70 - 130				08/02/24 15:06	08/06/24 17:51	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.4		4.98		mg/Kg			08/07/24 07:54	1

Client Sample ID: CS 08
Date Collected: 08/02/24 10:10
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-8
Matrix: Solid

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		08/05/24 10:06	08/06/24 02:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/05/24 10:06	08/06/24 02:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/05/24 10:06	08/06/24 02:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/05/24 10:06	08/06/24 02:31	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		08/05/24 10:06	08/06/24 02:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/05/24 10:06	08/06/24 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/05/24 10:06	08/06/24 02:31	1
1,4-Difluorobenzene (Surr)	116		70 - 130				08/05/24 10:06	08/06/24 02:31	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			08/06/24 02:31	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			08/06/24 18:09	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 08
Date Collected: 08/02/24 10:10
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-8
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	<50.0	U	50.0		mg/Kg		08/02/24 15:06	08/06/24 18:09	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/24 15:06	08/06/24 18:09	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/24 15:06	08/06/24 18:09	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	143	S1+	70 - 130				08/02/24 15:06	08/06/24 18:09	1	
o-Terphenyl	145	S1+	70 - 130				08/02/24 15:06	08/06/24 18:09	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	21.9		5.02		mg/Kg			08/07/24 08:00	1	

Client Sample ID: CS 09
Date Collected: 08/02/24 10:20
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-9
Matrix: Solid

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		08/05/24 10:06	08/06/24 02:52	1	
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 02:52	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 02:52	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 10:06	08/06/24 02:52	1	
o-Xylene	<0.00200	U *	0.00200		mg/Kg		08/05/24 10:06	08/06/24 02:52	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 10:06	08/06/24 02:52	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	110		70 - 130				08/05/24 10:06	08/06/24 02:52	1	
1,4-Difluorobenzene (Surr)	114		70 - 130				08/05/24 10:06	08/06/24 02:52	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			08/06/24 02:52	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			08/06/24 21:07	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		08/03/24 15:56	08/06/24 21:07	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/24 15:56	08/06/24 21:07	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/24 15:56	08/06/24 21:07	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	121		70 - 130				08/03/24 15:56	08/06/24 21:07	1	
o-Terphenyl	122		70 - 130				08/03/24 15:56	08/06/24 21:07	1	

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 09

Lab Sample ID: 890-6973-9

Date Collected: 08/02/24 10:20

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.4		4.97		mg/Kg			08/07/24 08:18	1

Client Sample ID: CS 10

Lab Sample ID: 890-6973-10

Date Collected: 08/02/24 10:30

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 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		08/05/24 10:06	08/06/24 03:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:06	08/06/24 03:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:06	08/06/24 03:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/05/24 10:06	08/06/24 03:12	1
o-Xylene	<0.00202	U *	0.00202		mg/Kg		08/05/24 10:06	08/06/24 03:12	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/05/24 10:06	08/06/24 03:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				08/05/24 10:06	08/06/24 03:12	1
1,4-Difluorobenzene (Surr)	111		70 - 130				08/05/24 10:06	08/06/24 03:12	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			08/06/24 03:12	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			08/06/24 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	<49.9	U	49.9		mg/Kg		08/03/24 15:56	08/06/24 21:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/03/24 15:56	08/06/24 21:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/24 15:56	08/06/24 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130				08/03/24 15:56	08/06/24 21:58	1
o-Terphenyl	132	S1+	70 - 130				08/03/24 15:56	08/06/24 21:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.10		5.02		mg/Kg			08/07/24 08:24	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 11
Date Collected: 08/02/24 10:40
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-11
Matrix: Solid

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		08/05/24 10:06	08/06/24 05:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 05:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 05:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/24 10:06	08/06/24 05:03	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		08/05/24 10:06	08/06/24 05:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/24 10:06	08/06/24 05:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				08/05/24 10:06	08/06/24 05:03	1
1,4-Difluorobenzene (Surr)	111		70 - 130				08/05/24 10:06	08/06/24 05:03	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			08/06/24 05:03	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			08/06/24 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	<49.8	U	49.8		mg/Kg		08/03/24 15:56	08/06/24 22:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/03/24 15:56	08/06/24 22:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/24 15:56	08/06/24 22:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				08/03/24 15:56	08/06/24 22:15	1
o-Terphenyl	141	S1+	70 - 130				08/03/24 15:56	08/06/24 22:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.81		4.99		mg/Kg			08/07/24 08:30	1

Client Sample ID: CS 12
Date Collected: 08/02/24 10:50
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-12
Matrix: Solid

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		08/05/24 10:06	08/06/24 05:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 05:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 05:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 10:06	08/06/24 05:23	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		08/05/24 10:06	08/06/24 05:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 10:06	08/06/24 05:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				08/05/24 10:06	08/06/24 05:23	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 12

Lab Sample ID: 890-6973-12

Date Collected: 08/02/24 10:50

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	115		70 - 130	08/05/24 10:06	08/06/24 05:23	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			08/06/24 05:23	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			08/06/24 22:32	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		08/03/24 15:56	08/06/24 22:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/24 15:56	08/06/24 22:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/24 15:56	08/06/24 22:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				08/03/24 15:56	08/06/24 22:32	1
o-Terphenyl	145	S1+	70 - 130				08/03/24 15:56	08/06/24 22:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.2		5.02		mg/Kg			08/07/24 08:36	1

Client Sample ID: CS 13

Lab Sample ID: 890-6973-13

Date Collected: 08/02/24 11:00

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/05/24 10:06	08/06/24 05:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:06	08/06/24 05:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:06	08/06/24 05:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/24 10:06	08/06/24 05:43	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		08/05/24 10:06	08/06/24 05:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/24 10:06	08/06/24 05:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/05/24 10:06	08/06/24 05:43	1
1,4-Difluorobenzene (Surr)	116		70 - 130	08/05/24 10:06	08/06/24 05:43	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			08/06/24 05:43	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			08/06/24 22:49	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 13

Lab Sample ID: 890-6973-13

Date Collected: 08/02/24 11:00

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/03/24 15:56	08/06/24 22:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/03/24 15:56	08/06/24 22:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/24 15:56	08/06/24 22:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				08/03/24 15:56	08/06/24 22:49	1
o-Terphenyl	128		70 - 130				08/03/24 15:56	08/06/24 22:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.04		4.98		mg/Kg			08/07/24 08:42	1

Client Sample ID: CS 14

Lab Sample ID: 890-6973-14

Date Collected: 08/02/24 11:10

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/05/24 10:06	08/06/24 06:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 06:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 06:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/24 10:06	08/06/24 06:04	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		08/05/24 10:06	08/06/24 06:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/24 10:06	08/06/24 06:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				08/05/24 10:06	08/06/24 06:04	1
1,4-Difluorobenzene (Surr)	120		70 - 130				08/05/24 10:06	08/06/24 06:04	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			08/06/24 06:04	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			08/06/24 23:05	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	<49.7	U	49.7		mg/Kg		08/03/24 15:56	08/06/24 23:05	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/03/24 15:56	08/06/24 23:05	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/03/24 15:56	08/06/24 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130				08/03/24 15:56	08/06/24 23:05	1
o-Terphenyl	141	S1+	70 - 130				08/03/24 15:56	08/06/24 23:05	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 14

Lab Sample ID: 890-6973-14

Date Collected: 08/02/24 11:10

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.6		5.02		mg/Kg			08/07/24 08:48	1

Client Sample ID: CS 15

Lab Sample ID: 890-6973-15

Date Collected: 08/02/24 11:20

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/05/24 10:06	08/06/24 06:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 06:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 06:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 10:06	08/06/24 06:24	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		08/05/24 10:06	08/06/24 06:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 10:06	08/06/24 06:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/05/24 10:06	08/06/24 06:24	1
1,4-Difluorobenzene (Surr)	117		70 - 130				08/05/24 10:06	08/06/24 06:24	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			08/06/24 06:24	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			08/06/24 23:22	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	<50.0	U	50.0		mg/Kg		08/03/24 15:56	08/06/24 23:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/24 15:56	08/06/24 23:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/24 15:56	08/06/24 23:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				08/03/24 15:56	08/06/24 23:22	1
o-Terphenyl	128		70 - 130				08/03/24 15:56	08/06/24 23:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.5		5.01		mg/Kg			08/07/24 09:07	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 16
Date Collected: 08/02/24 11:30
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-16
Matrix: Solid

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		08/05/24 10:06	08/06/24 06:45	1	
Toluene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:06	08/06/24 06:45	1	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:06	08/06/24 06:45	1	
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/05/24 10:06	08/06/24 06:45	1	
o-Xylene	<0.00202	U *	0.00202		mg/Kg		08/05/24 10:06	08/06/24 06:45	1	
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/05/24 10:06	08/06/24 06:45	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	109		70 - 130				08/05/24 10:06	08/06/24 06:45	1	
1,4-Difluorobenzene (Surr)	121		70 - 130				08/05/24 10:06	08/06/24 06:45	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			08/06/24 06:45	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.6	U	49.6		mg/Kg			08/06/24 23:38	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	<49.6	U	49.6		mg/Kg		08/03/24 15:56	08/06/24 23:38	1	
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/03/24 15:56	08/06/24 23:38	1	
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/03/24 15:56	08/06/24 23:38	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	127		70 - 130				08/03/24 15:56	08/06/24 23:38	1	
o-Terphenyl	128		70 - 130				08/03/24 15:56	08/06/24 23:38	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	45.1		5.01		mg/Kg			08/07/24 09:13	1	

Client Sample ID: CS 17
Date Collected: 08/02/24 11:40
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-17
Matrix: Solid

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		08/05/24 10:06	08/06/24 07:05	1	
Toluene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:06	08/06/24 07:05	1	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:06	08/06/24 07:05	1	
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/05/24 10:06	08/06/24 07:05	1	
o-Xylene	<0.00202	U **	0.00202		mg/Kg		08/05/24 10:06	08/06/24 07:05	1	
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/05/24 10:06	08/06/24 07:05	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		70 - 130				08/05/24 10:06	08/06/24 07:05	1	

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 17

Lab Sample ID: 890-6973-17

Date Collected: 08/02/24 11:40

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130	08/05/24 10:06	08/06/24 07:05	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			08/06/24 07:05	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			08/06/24 23:55	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		08/03/24 15:56	08/06/24 23:55	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/03/24 15:56	08/06/24 23:55	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/03/24 15:56	08/06/24 23:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130				08/03/24 15:56	08/06/24 23:55	1
o-Terphenyl	138	S1+	70 - 130				08/03/24 15:56	08/06/24 23:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.67		5.04		mg/Kg			08/07/24 09:31	1

Client Sample ID: CS 18

Lab Sample ID: 890-6973-18

Date Collected: 08/02/24 11:50

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/05/24 10:06	08/06/24 07:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 07:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 07:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/24 10:06	08/06/24 07:26	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		08/05/24 10:06	08/06/24 07:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/24 10:06	08/06/24 07:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	08/05/24 10:06	08/06/24 07:26	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/05/24 10:06	08/06/24 07:26	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			08/06/24 07:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/07/24 00:11	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 18

Lab Sample ID: 890-6973-18

Date Collected: 08/02/24 11:50

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/03/24 15:56	08/07/24 00:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/03/24 15:56	08/07/24 00:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/24 15:56	08/07/24 00:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				08/03/24 15:56	08/07/24 00:11	1
o-Terphenyl	130		70 - 130				08/03/24 15:56	08/07/24 00:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.6		4.96		mg/Kg			08/07/24 09:37	1

Client Sample ID: CS 19

Lab Sample ID: 890-6973-19

Date Collected: 08/02/24 12:00

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/05/24 10:06	08/06/24 07:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 07:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/06/24 07:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 10:06	08/06/24 07:46	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		08/05/24 10:06	08/06/24 07:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 10:06	08/06/24 07:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/05/24 10:06	08/06/24 07:46	1
1,4-Difluorobenzene (Surr)	113		70 - 130				08/05/24 10:06	08/06/24 07:46	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			08/06/24 07:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/07/24 00:44	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	<49.6	U	49.6		mg/Kg		08/03/24 15:56	08/07/24 00:44	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/03/24 15:56	08/07/24 00:44	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/03/24 15:56	08/07/24 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				08/03/24 15:56	08/07/24 00:44	1
o-Terphenyl	128		70 - 130				08/03/24 15:56	08/07/24 00:44	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 19

Lab Sample ID: 890-6973-19

Date Collected: 08/02/24 12:00

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.4		4.98		mg/Kg			08/07/24 09:43	1

Client Sample ID: CS 20

Lab Sample ID: 890-6973-20

Date Collected: 08/02/24 12:10

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/05/24 10:06	08/06/24 08:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:06	08/06/24 08:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:06	08/06/24 08:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/24 10:06	08/06/24 08:07	1
o-Xylene	<0.00201	U *	0.00201		mg/Kg		08/05/24 10:06	08/06/24 08:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/24 10:06	08/06/24 08:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/05/24 10:06	08/06/24 08:07	1
1,4-Difluorobenzene (Surr)	120		70 - 130				08/05/24 10:06	08/06/24 08:07	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			08/06/24 08:07	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			08/07/24 01:01	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		08/03/24 15:56	08/07/24 01:01	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/03/24 15:56	08/07/24 01:01	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/03/24 15:56	08/07/24 01:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				08/03/24 15:56	08/07/24 01:01	1
o-Terphenyl	113		70 - 130				08/03/24 15:56	08/07/24 01:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.2		5.02		mg/Kg			08/07/24 09:49	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 21
Date Collected: 08/02/24 12:20
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-21
Matrix: Solid

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		08/05/24 10:16	08/06/24 12:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:16	08/06/24 12:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:16	08/06/24 12:50	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/05/24 10:16	08/06/24 12:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:16	08/06/24 12:50	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/05/24 10:16	08/06/24 12:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				08/05/24 10:16	08/06/24 12:50	1
1,4-Difluorobenzene (Surr)	102		70 - 130				08/05/24 10:16	08/06/24 12:50	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			08/06/24 12:50	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			08/07/24 01:17	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		08/03/24 15:56	08/07/24 01:17	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/03/24 15:56	08/07/24 01:17	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/03/24 15:56	08/07/24 01:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				08/03/24 15:56	08/07/24 01:17	1
o-Terphenyl	120		70 - 130				08/03/24 15:56	08/07/24 01:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.4		5.04		mg/Kg			08/07/24 09:55	1

Client Sample ID: CS 22
Date Collected: 08/02/24 12:30
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-22
Matrix: Solid

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		08/05/24 10:16	08/06/24 14:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 14:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 14:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/24 10:16	08/06/24 14:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 14:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/24 10:16	08/06/24 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/05/24 10:16	08/06/24 14:33	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 22

Lab Sample ID: 890-6973-22

Date Collected: 08/02/24 12:30

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	116		70 - 130	08/05/24 10:16	08/06/24 14:33	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			08/06/24 14:33	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			08/07/24 01:34	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		08/03/24 15:56	08/07/24 01:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/03/24 15:56	08/07/24 01:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/24 15:56	08/07/24 01:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				08/03/24 15:56	08/07/24 01:34	1
o-Terphenyl	124		70 - 130				08/03/24 15:56	08/07/24 01:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.13		5.05		mg/Kg			08/07/24 10:01	1

Client Sample ID: CS 23

Lab Sample ID: 890-6973-23

Date Collected: 08/02/24 12:40

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/05/24 10:16	08/06/24 14:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 14:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 14:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 10:16	08/06/24 14:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 14:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 10:16	08/06/24 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/05/24 10:16	08/06/24 14:53	1
1,4-Difluorobenzene (Surr)	115		70 - 130	08/05/24 10:16	08/06/24 14:53	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			08/06/24 14:53	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			08/07/24 01:50	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 23

Lab Sample ID: 890-6973-23

Date Collected: 08/02/24 12:40

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/03/24 15:56	08/07/24 01:50	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/03/24 15:56	08/07/24 01:50	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/24 15:56	08/07/24 01:50	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	126		70 - 130				08/03/24 15:56	08/07/24 01:50	1	
o-Terphenyl	127		70 - 130				08/03/24 15:56	08/07/24 01:50	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	38.5		5.05		mg/Kg			08/07/24 10:07	1	

Client Sample ID: CS 24

Lab Sample ID: 890-6973-24

Date Collected: 08/02/24 12:50

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/05/24 10:16	08/06/24 15:14	1	
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:16	08/06/24 15:14	1	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:16	08/06/24 15:14	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/24 10:16	08/06/24 15:14	1	
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:16	08/06/24 15:14	1	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/24 10:16	08/06/24 15:14	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	109		70 - 130				08/05/24 10:16	08/06/24 15:14	1	
1,4-Difluorobenzene (Surr)	115		70 - 130				08/05/24 10:16	08/06/24 15:14	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			08/06/24 15:14	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	67.7		49.9		mg/Kg			08/07/24 09:41	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	<49.9	U	49.9		mg/Kg		08/03/24 15:56	08/07/24 09:41	1	
Diesel Range Organics (Over C10-C28)	67.7		49.9		mg/Kg		08/03/24 15:56	08/07/24 09:41	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/24 15:56	08/07/24 09:41	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	135	S1+	70 - 130				08/03/24 15:56	08/07/24 09:41	1	
o-Terphenyl	274	S1+	70 - 130				08/03/24 15:56	08/07/24 09:41	1	

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 24

Lab Sample ID: 890-6973-24

Date Collected: 08/02/24 12:50

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.33	F1	5.02		mg/Kg			08/07/24 20:06	1

Client Sample ID: CS 25

Lab Sample ID: 890-6973-25

Date Collected: 08/02/24 13:00

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 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		08/05/24 10:16	08/06/24 15:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:16	08/06/24 15:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:16	08/06/24 15:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/05/24 10:16	08/06/24 15:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:16	08/06/24 15:35	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/05/24 10:16	08/06/24 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/05/24 10:16	08/06/24 15:35	1
1,4-Difluorobenzene (Surr)	121		70 - 130				08/05/24 10:16	08/06/24 15:35	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			08/06/24 15:35	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			08/07/24 09:59	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		08/03/24 15:56	08/07/24 09:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/03/24 15:56	08/07/24 09:59	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/03/24 15:56	08/07/24 09:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				08/03/24 15:56	08/07/24 09:59	1
o-Terphenyl	135	S1+	70 - 130				08/03/24 15:56	08/07/24 09:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.5		5.05		mg/Kg			08/07/24 20:22	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 26
Date Collected: 08/02/24 13:10
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-26
Matrix: Solid

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		08/05/24 10:16	08/06/24 15:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:16	08/06/24 15:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:16	08/06/24 15:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/24 10:16	08/06/24 15:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:16	08/06/24 15:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/24 10:16	08/06/24 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/05/24 10:16	08/06/24 15:55	1
1,4-Difluorobenzene (Surr)	113		70 - 130				08/05/24 10:16	08/06/24 15:55	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			08/06/24 15:55	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			08/07/24 10:16	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		08/03/24 15:56	08/07/24 10:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/24 15:56	08/07/24 10:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/24 15:56	08/07/24 10:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				08/03/24 15:56	08/07/24 10:16	1
o-Terphenyl	130		70 - 130				08/03/24 15:56	08/07/24 10:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.9		5.04		mg/Kg			08/07/24 20:27	1

Client Sample ID: CS 27
Date Collected: 08/02/24 13:20
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-27
Matrix: Solid

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		08/05/24 10:16	08/06/24 17:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 17:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 17:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/24 10:16	08/06/24 17:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 17:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/24 10:16	08/06/24 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				08/05/24 10:16	08/06/24 17:46	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 27
Date Collected: 08/02/24 13:20
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-27
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130				08/05/24 10:16	08/06/24 17:46	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			08/06/24 17:46	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			08/07/24 10:35	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		08/03/24 15:56	08/07/24 10:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/03/24 15:56	08/07/24 10:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/24 15:56	08/07/24 10:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				08/03/24 15:56	08/07/24 10:35	1
o-Terphenyl	129		70 - 130				08/03/24 15:56	08/07/24 10:35	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.7		5.02		mg/Kg			08/07/24 20:32	1

Client Sample ID: CS 28
Date Collected: 08/02/24 13:30
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-28
Matrix: Solid

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		08/05/24 10:16	08/06/24 18:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/05/24 10:16	08/06/24 18:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/05/24 10:16	08/06/24 18:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/05/24 10:16	08/06/24 18:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/05/24 10:16	08/06/24 18:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/05/24 10:16	08/06/24 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/05/24 10:16	08/06/24 18:07	1
1,4-Difluorobenzene (Surr)	114		70 - 130				08/05/24 10:16	08/06/24 18:07	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			08/06/24 18:07	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			08/07/24 10:53	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 28

Lab Sample ID: 890-6973-28

Date Collected: 08/02/24 13:30

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/03/24 15:56	08/07/24 10:53	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/24 15:56	08/07/24 10:53	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/24 15:56	08/07/24 10:53	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	113		70 - 130				08/03/24 15:56	08/07/24 10:53	1	
o-Terphenyl	113		70 - 130				08/03/24 15:56	08/07/24 10:53	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	5.04		4.98		mg/Kg			08/07/24 20:38	1	

Client Sample ID: CS 29

Lab Sample ID: 890-6973-29

Date Collected: 08/02/24 13:40

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/05/24 10:16	08/06/24 18:28	1	
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 18:28	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 18:28	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 10:16	08/06/24 18:28	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 18:28	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 10:16	08/06/24 18:28	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		70 - 130				08/05/24 10:16	08/06/24 18:28	1	
1,4-Difluorobenzene (Surr)	113		70 - 130				08/05/24 10:16	08/06/24 18:28	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			08/06/24 18:28	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			08/05/24 20:57	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	<50.1	U	50.1		mg/Kg		08/03/24 15:59	08/05/24 20:57	1	
Diesel Range Organics (Over C10-C28)	<50.1	U F1	50.1		mg/Kg		08/03/24 15:59	08/05/24 20:57	1	
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/03/24 15:59	08/05/24 20:57	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	132	S1+	70 - 130				08/03/24 15:59	08/05/24 20:57	1	
o-Terphenyl	154	S1+	70 - 130				08/03/24 15:59	08/05/24 20:57	1	

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 29

Lab Sample ID: 890-6973-29

Date Collected: 08/02/24 13:40

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			08/07/24 20:53	1

Client Sample ID: CS 30

Lab Sample ID: 890-6973-30

Date Collected: 08/02/24 13:50

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 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		08/05/24 10:16	08/06/24 18:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:16	08/06/24 18:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:16	08/06/24 18:48	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/05/24 10:16	08/06/24 18:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:16	08/06/24 18:48	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/05/24 10:16	08/06/24 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/05/24 10:16	08/06/24 18:48	1
1,4-Difluorobenzene (Surr)	108		70 - 130				08/05/24 10:16	08/06/24 18:48	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			08/06/24 18:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/05/24 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	<49.9	U	49.9		mg/Kg		08/03/24 15:59	08/05/24 21:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/03/24 15:59	08/05/24 21:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/24 15:59	08/05/24 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				08/03/24 15:59	08/05/24 21:58	1
o-Terphenyl	146	S1+	70 - 130				08/03/24 15:59	08/05/24 21:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.99		4.96		mg/Kg			08/07/24 20:58	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 31
Date Collected: 08/02/24 14:00
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-31
Matrix: Solid

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		08/05/24 10:16	08/06/24 19:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 19:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 19:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/24 10:16	08/06/24 19:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 19:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/24 10:16	08/06/24 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/05/24 10:16	08/06/24 19:09	1
1,4-Difluorobenzene (Surr)	111		70 - 130				08/05/24 10:16	08/06/24 19:09	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			08/06/24 19:09	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			08/05/24 22:19	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		08/03/24 15:59	08/05/24 22:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/03/24 15:59	08/05/24 22:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/24 15:59	08/05/24 22:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				08/03/24 15:59	08/05/24 22:19	1
o-Terphenyl	147	S1+	70 - 130				08/03/24 15:59	08/05/24 22:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.5		4.96		mg/Kg			08/07/24 21:04	1

Client Sample ID: CS 32
Date Collected: 08/02/24 14:10
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-32
Matrix: Solid

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		08/05/24 10:16	08/06/24 19:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 19:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 19:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 10:16	08/06/24 19:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 19:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 10:16	08/06/24 19:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				08/05/24 10:16	08/06/24 19:29	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 32
Date Collected: 08/02/24 14:10
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-32
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	114		70 - 130				08/05/24 10:16	08/06/24 19:29	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			08/06/24 19:29	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			08/05/24 22:39	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		08/03/24 15:59	08/05/24 22:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/24 15:59	08/05/24 22:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/24 15:59	08/05/24 22:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				08/03/24 15:59	08/05/24 22:39	1
o-Terphenyl	131	S1+	70 - 130				08/03/24 15:59	08/05/24 22:39	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.3		5.04		mg/Kg			08/07/24 21:09	1

Client Sample ID: CS 33
Date Collected: 08/02/24 14:20
Date Received: 08/02/24 15:31
Sample Depth: 4'

Lab Sample ID: 890-6973-33
Matrix: Solid

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		08/05/24 10:16	08/06/24 19:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:16	08/06/24 19:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:16	08/06/24 19:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/24 10:16	08/06/24 19:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:16	08/06/24 19:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/24 10:16	08/06/24 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/05/24 10:16	08/06/24 19:50	1
1,4-Difluorobenzene (Surr)	109		70 - 130				08/05/24 10:16	08/06/24 19:50	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			08/06/24 19:50	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			08/05/24 23:00	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 33

Lab Sample ID: 890-6973-33

Date Collected: 08/02/24 14:20

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/03/24 15:59	08/05/24 23:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/03/24 15:59	08/05/24 23:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/24 15:59	08/05/24 23:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				08/03/24 15:59	08/05/24 23:00	1
o-Terphenyl	149	S1+	70 - 130				08/03/24 15:59	08/05/24 23:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.5		4.98		mg/Kg			08/07/24 21:14	1

Client Sample ID: CS 34

Lab Sample ID: 890-6973-34

Date Collected: 08/02/24 14:30

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/05/24 10:16	08/06/24 20:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 20:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 20:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/24 10:16	08/06/24 20:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 20:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/24 10:16	08/06/24 20:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				08/05/24 10:16	08/06/24 20:10	1
1,4-Difluorobenzene (Surr)	111		70 - 130				08/05/24 10:16	08/06/24 20:10	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			08/06/24 20:10	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			08/05/24 23:20	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	<49.8	U	49.8		mg/Kg		08/03/24 15:59	08/05/24 23:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/03/24 15:59	08/05/24 23:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/24 15:59	08/05/24 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130				08/03/24 15:59	08/05/24 23:20	1
o-Terphenyl	166	S1+	70 - 130				08/03/24 15:59	08/05/24 23:20	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 34

Lab Sample ID: 890-6973-34

Date Collected: 08/02/24 14:30

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.8	F1	4.99		mg/Kg			08/07/24 21:19	1

Client Sample ID: CS 35

Lab Sample ID: 890-6973-35

Date Collected: 08/02/24 14:40

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 4'

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		08/05/24 10:16	08/06/24 20:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 20:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 20:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 10:16	08/06/24 20:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 20:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 10:16	08/06/24 20:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				08/05/24 10:16	08/06/24 20:31	1
1,4-Difluorobenzene (Surr)	113		70 - 130				08/05/24 10:16	08/06/24 20:31	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			08/06/24 20:31	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			08/05/24 23:40	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	<50.0	U	50.0		mg/Kg		08/03/24 15:59	08/05/24 23:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/24 15:59	08/05/24 23:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/24 15:59	08/05/24 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	149	S1+	70 - 130				08/03/24 15:59	08/05/24 23:40	1
o-Terphenyl	179	S1+	70 - 130				08/03/24 15:59	08/05/24 23:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.9		4.99		mg/Kg			08/07/24 21:35	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 36

Lab Sample ID: 890-6973-36

Date Collected: 08/02/24 14:50

Matrix: Solid

Date Received: 08/02/24 15:31

Sample Depth: 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		08/05/24 10:16	08/06/24 20:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:16	08/06/24 20:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:16	08/06/24 20:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/05/24 10:16	08/06/24 20:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:16	08/06/24 20:51	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/05/24 10:16	08/06/24 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/05/24 10:16	08/06/24 20:51	1
1,4-Difluorobenzene (Surr)	119		70 - 130				08/05/24 10:16	08/06/24 20:51	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			08/06/24 20:51	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			08/06/24 00:00	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		08/03/24 15:59	08/06/24 00:00	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/03/24 15:59	08/06/24 00:00	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/03/24 15:59	08/06/24 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	155	S1+	70 - 130				08/03/24 15:59	08/06/24 00:00	1
o-Terphenyl	169	S1+	70 - 130				08/03/24 15:59	08/06/24 00:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.8		5.04		mg/Kg			08/07/24 21:40	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
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)
890-6973-1	CS 01	84	106
890-6973-1 MS	CS 01	103	106
890-6973-1 MSD	CS 01	102	110
890-6973-2	CS 02	103	109
890-6973-3	CS 03	97	110
890-6973-4	CS 04	104	114
890-6973-5	CS 05	102	114
890-6973-6	CS 06	108	114
890-6973-7	CS 07	104	119
890-6973-8	CS 08	113	116
890-6973-9	CS 09	110	114
890-6973-10	CS 10	100	111
890-6973-11	CS 11	85	111
890-6973-12	CS 12	98	115
890-6973-13	CS 13	104	116
890-6973-14	CS 14	112	120
890-6973-15	CS 15	104	117
890-6973-16	CS 16	109	121
890-6973-17	CS 17	103	108
890-6973-18	CS 18	112	109
890-6973-19	CS 19	106	113
890-6973-20	CS 20	110	120
890-6973-21	CS 21	83	102
890-6973-21 MS	CS 21	95	106
890-6973-21 MSD	CS 21	97	101
890-6973-22	CS 22	109	116
890-6973-23	CS 23	101	115
890-6973-24	CS 24	109	115
890-6973-25	CS 25	110	121
890-6973-26	CS 26	110	113
890-6973-27	CS 27	85	106
890-6973-28	CS 28	106	114
890-6973-29	CS 29	100	113
890-6973-30	CS 30	94	108
890-6973-31	CS 31	104	111
890-6973-32	CS 32	108	114
890-6973-33	CS 33	106	109
890-6973-34	CS 34	97	111
890-6973-35	CS 35	102	113
890-6973-36	CS 36	110	119
LCS 880-87487/1-A	Lab Control Sample	101	99
LCS 880-87488/1-A	Lab Control Sample	105	100
LCSD 880-87487/2-A	Lab Control Sample Dup	103	105
LCSD 880-87488/2-A	Lab Control Sample Dup	89	109
MB 880-87475/5-A	Method Blank	121	100
MB 880-87487/5-A	Method Blank	203 S1+	145 S1+
MB 880-87488/5-A	Method Blank	119	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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Surrogate Summary

Client: Earth Systems Response and Restoration

Job ID: 890-6973-1

Project/Site: The Contest CTB

SDG: Lea County,NM

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	OTPH1
		(70-130)	(70-130)
890-6973-1	CS 01	149 S1+	150 S1+
890-6973-2	CS 02	154 S1+	156 S1+
890-6973-3	CS 03	144 S1+	144 S1+
890-6973-4	CS 04	161 S1+	163 S1+
890-6973-5	CS 05	140 S1+	143 S1+
890-6973-6	CS 06	139 S1+	141 S1+
890-6973-7	CS 07	132 S1+	132 S1+
890-6973-8	CS 08	143 S1+	145 S1+
890-6973-9	CS 09	121	122
890-6973-9 MS	CS 09	110	120
890-6973-9 MSD	CS 09	111	122
890-6973-10	CS 10	131 S1+	132 S1+
890-6973-11	CS 11	139 S1+	141 S1+
890-6973-12	CS 12	143 S1+	145 S1+
890-6973-13	CS 13	127	128
890-6973-14	CS 14	139 S1+	141 S1+
890-6973-15	CS 15	127	128
890-6973-16	CS 16	127	128
890-6973-17	CS 17	135 S1+	138 S1+
890-6973-18	CS 18	130	130
890-6973-19	CS 19	128	128
890-6973-20	CS 20	113	113
890-6973-21	CS 21	118	120
890-6973-22	CS 22	124	124
890-6973-23	CS 23	126	127
890-6973-24	CS 24	135 S1+	274 S1+
890-6973-25	CS 25	134 S1+	135 S1+
890-6973-26	CS 26	129	130
890-6973-27	CS 27	129	129
890-6973-28	CS 28	113	113
890-6973-29	CS 29	132 S1+	154 S1+
890-6973-29 MS	CS 29	129	125
890-6973-29 MSD	CS 29	106	113
890-6973-30	CS 30	132 S1+	146 S1+
890-6973-31	CS 31	136 S1+	147 S1+
890-6973-32	CS 32	112	131 S1+
890-6973-33	CS 33	133 S1+	149 S1+
890-6973-34	CS 34	142 S1+	166 S1+
890-6973-35	CS 35	149 S1+	179 S1+
890-6973-36	CS 36	155 S1+	169 S1+
LCS 880-87401/2-A	Lab Control Sample	115	128
LCS 880-87445/2-A	Lab Control Sample	122	134 S1+
LCS 880-87446/2-A	Lab Control Sample	125	135 S1+
LCSD 880-87401/3-A	Lab Control Sample Dup	109	120
LCSD 880-87445/3-A	Lab Control Sample Dup	121	133 S1+
LCSD 880-87446/3-A	Lab Control Sample Dup	129	149 S1+
MB 880-87401/1-A	Method Blank	138 S1+	140 S1+
MB 880-87445/1-A	Method Blank	102	103

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
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)
MB 880-87446/1-A	Method Blank	141 S1+	172 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-87475/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 87458							Prep Batch: 87475		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:36	08/05/24 12:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:36	08/05/24 12:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:36	08/05/24 12:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 09:36	08/05/24 12:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:36	08/05/24 12:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 09:36	08/05/24 12:00	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				08/05/24 09:36	08/05/24 12:00	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/05/24 09:36	08/05/24 12:00	1

Lab Sample ID: MB 880-87487/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 87458							Prep Batch: 87487		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/05/24 23:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/05/24 23:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/05/24 23:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 10:06	08/05/24 23:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:06	08/05/24 23:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 10:06	08/05/24 23:40	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	203	S1+	70 - 130				08/05/24 10:06	08/05/24 23:40	1
1,4-Difluorobenzene (Surr)	145	S1+	70 - 130				08/05/24 10:06	08/05/24 23:40	1

Lab Sample ID: LCS 880-87487/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 87458							Prep Batch: 87487		
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene		0.100	0.1067		mg/Kg		107	70 - 130	
Toluene		0.100	0.1042		mg/Kg		104	70 - 130	
Ethylbenzene		0.100	0.1146		mg/Kg		115	70 - 130	
m-Xylene & p-Xylene		0.200	0.2331		mg/Kg		117	70 - 130	
o-Xylene		0.100	0.1282		mg/Kg		128	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		70 - 130						
1,4-Difluorobenzene (Surr)	99		70 - 130						

Lab Sample ID: LCSD 880-87487/2-A							Client Sample ID: Lab Control Sample Dup		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 87458							Prep Batch: 87487		
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Benzene		0.100	0.1195		mg/Kg		119	70 - 130	11 35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

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

Lab Sample ID: LCSD 880-87487/2-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 87458						Prep Batch: 87487					
			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene			0.100	0.1085		mg/Kg		109	70 - 130	4	35
Ethylbenzene			0.100	0.1190		mg/Kg		119	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2505		mg/Kg		125	70 - 130	7	35
o-Xylene			0.100	0.1404	*+	mg/Kg		140	70 - 130	9	35
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	103		70 - 130								
1,4-Difluorobenzene (Surr)	105		70 - 130								

Lab Sample ID: 890-6973-1 MS				Client Sample ID: CS 01							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 87458				Prep Batch: 87487							
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.09663		mg/Kg		97	70 - 130		
Toluene	<0.00202	U	0.100	0.09014		mg/Kg		90	70 - 130		
Ethylbenzene	<0.00202	U	0.100	0.08753		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1965		mg/Kg		98	70 - 130		
o-Xylene	<0.00202	U *	0.100	0.1116		mg/Kg		112	70 - 130		
		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	103		70 - 130								
1,4-Difluorobenzene (Surr)	106		70 - 130								

Lab Sample ID: 890-6973-1 MSD				Client Sample ID: CS 01							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 87458				Prep Batch: 87487							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.1153		mg/Kg		115	70 - 130	18	35
Toluene	<0.00202	U	0.100	0.1053		mg/Kg		105	70 - 130	16	35
Ethylbenzene	<0.00202	U	0.100	0.1005		mg/Kg		101	70 - 130	14	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.2305		mg/Kg		115	70 - 130	16	35
o-Xylene	<0.00202	U *	0.100	0.1296		mg/Kg		130	70 - 130	15	35
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	102		70 - 130								
1,4-Difluorobenzene (Surr)	110		70 - 130								

Lab Sample ID: MB 880-87488/5-A				Client Sample ID: Method Blank							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 87590				Prep Batch: 87488							
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 12:21	1		
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 12:21	1		
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 12:21	1		
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 10:16	08/06/24 12:21	1		

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

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

Lab Sample ID: MB 880-87488/5-A

Matrix: Solid

Analysis Batch: 87590

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87488

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:16	08/06/24 12:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 10:16	08/06/24 12:21	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	119		70 - 130	08/05/24 10:16	08/06/24 12:21	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/05/24 10:16	08/06/24 12:21	1

Lab Sample ID: LCS 880-87488/1-A

Matrix: Solid

Analysis Batch: 87590

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87488

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.1092		mg/Kg		109	70 - 130
Toluene	0.100	0.1056		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1042		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2223		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1303		mg/Kg		130	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-87488/2-A

Matrix: Solid

Analysis Batch: 87590

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87488

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Benzene	0.100	0.1116		mg/Kg		112	70 - 130	2	35
Toluene	0.100	0.1050		mg/Kg		105	70 - 130	1	35
Ethylbenzene	0.100	0.09744		mg/Kg		97	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1834		mg/Kg		92	70 - 130	19	35
o-Xylene	0.100	0.1128		mg/Kg		113	70 - 130	14	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-6973-21 MS

Matrix: Solid

Analysis Batch: 87590

Client Sample ID: CS 21

Prep Type: Total/NA

Prep Batch: 87488

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	<0.00202	U	0.100	0.1018		mg/Kg		102	70 - 130
Toluene	<0.00202	U	0.100	0.08731		mg/Kg		87	70 - 130
Ethylbenzene	<0.00202	U	0.100	0.07767		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1681		mg/Kg		84	70 - 130
o-Xylene	<0.00202	U	0.100	0.09852		mg/Kg		99	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

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

Lab Sample ID: 890-6973-21 MS
Matrix: Solid
Analysis Batch: 87590

Client Sample ID: CS 21
Prep Type: Total/NA
Prep Batch: 87488

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-6973-21 MSD
Matrix: Solid
Analysis Batch: 87590

Client Sample ID: CS 21
Prep Type: Total/NA
Prep Batch: 87488

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.09673		mg/Kg		97	70 - 130	5	35
Toluene	<0.00202	U	0.100	0.08467		mg/Kg		85	70 - 130	3	35
Ethylbenzene	<0.00202	U	0.100	0.07313		mg/Kg		73	70 - 130	6	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1588		mg/Kg		79	70 - 130	6	35
o-Xylene	<0.00202	U	0.100	0.09039		mg/Kg		90	70 - 130	9	35
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	97		70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								

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

Lab Sample ID: MB 880-87401/1-A
Matrix: Solid
Analysis Batch: 87619

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87401

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		08/02/24 15:06	08/06/24 08:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/02/24 15:06	08/06/24 08:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/02/24 15:06	08/06/24 08:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				08/02/24 15:06	08/06/24 08:46	1
o-Terphenyl	140	S1+	70 - 130				08/02/24 15:06	08/06/24 08:46	1

Lab Sample ID: LCS 880-87401/2-A
Matrix: Solid
Analysis Batch: 87619

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87401

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1095		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1179		mg/Kg		118	70 - 130		
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	115		70 - 130						
o-Terphenyl	128		70 - 130						

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

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

Lab Sample ID: LCSD 880-87401/3-A

Matrix: Solid

Analysis Batch: 87619

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87401

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1055		mg/Kg		105	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1122		mg/Kg		112	70 - 130	5	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
o-Terphenyl	120		70 - 130						

Lab Sample ID: MB 880-87445/1-A

Matrix: Solid

Analysis Batch: 87619

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87445

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		08/03/24 15:56	08/06/24 20:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/24 15:56	08/06/24 20:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/24 15:56	08/06/24 20:14	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				08/03/24 15:56	08/06/24 20:14	1
o-Terphenyl	103		70 - 130				08/03/24 15:56	08/06/24 20:14	1

Lab Sample ID: LCS 880-87445/2-A

Matrix: Solid

Analysis Batch: 87619

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1166		mg/Kg		117	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1236		mg/Kg		124	70 - 130		
Surrogate	%Recovery	LCS Qualifier	Limits						
1-Chlorooctane	122		70 - 130						
o-Terphenyl	134	S1+	70 - 130						

Lab Sample ID: LCSD 880-87445/3-A

Matrix: Solid

Analysis Batch: 87619

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87445

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1153		mg/Kg		115	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1258		mg/Kg		126	70 - 130	2	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

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

Lab Sample ID: LCSD 880-87445/3-A
Matrix: Solid
Analysis Batch: 87619

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87445

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	133	S1+	70 - 130

Lab Sample ID: 890-6973-9 MS
Matrix: Solid
Analysis Batch: 87619

Client Sample ID: CS 09
Prep Type: Total/NA
Prep Batch: 87445

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	916.8		mg/Kg		92	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	998	966.2		mg/Kg		97	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	110		70 - 130							
o-Terphenyl	120		70 - 130							

Lab Sample ID: 890-6973-9 MSD
Matrix: Solid
Analysis Batch: 87619

Client Sample ID: CS 09
Prep Type: Total/NA
Prep Batch: 87445

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	925.8		mg/Kg		93	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)	<50.0	U	998	983.2		mg/Kg		99	70 - 130	2	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	111		70 - 130									
o-Terphenyl	122		70 - 130									

Lab Sample ID: MB 880-87446/1-A
Matrix: Solid
Analysis Batch: 87450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87446

	MB	MB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/24 15:59	08/05/24 19:55	1		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/24 15:59	08/05/24 19:55	1		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/24 15:59	08/05/24 19:55	1		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac	
1-Chlorooctane	141	S1+	70 - 130				08/03/24 15:59	08/05/24 19:55	1		
o-Terphenyl	172	S1+	70 - 130				08/03/24 15:59	08/05/24 19:55	1		

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

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

Lab Sample ID: LCS 880-87446/2-A				Client Sample ID: Lab Control Sample						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 87450				Prep Batch: 87446						
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	1190		mg/Kg		119	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1036		mg/Kg		104	70 - 130	
		LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	125		70 - 130							
o-Terphenyl	135	S1+	70 - 130							

Lab Sample ID: LCSD 880-87446/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 87450				Prep Batch: 87446						
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1123		mg/Kg		112	70 - 130	6 20
Diesel Range Organics (Over C10-C28)			1000	1069		mg/Kg		107	70 - 130	3 20
		LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	129		70 - 130							
o-Terphenyl	149	S1+	70 - 130							

Lab Sample ID: 890-6973-29 MS				Client Sample ID: CS 29						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 87450				Prep Batch: 87446						
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	999	840.5		mg/Kg		82	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.1	U F1	999	786.0		mg/Kg		79	70 - 130	
		MS	MS							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	129		70 - 130							
o-Terphenyl	125		70 - 130							

Lab Sample ID: 890-6973-29 MSD				Client Sample ID: CS 29						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 87450				Prep Batch: 87446						
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	999	1010		mg/Kg		99	70 - 130	18 20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	999	671.3	F1	mg/Kg		67	70 - 130	16 20
		MSD	MSD							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	106		70 - 130							

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

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

Lab Sample ID: 890-6973-29 MSD

Matrix: Solid

Analysis Batch: 87450

Client Sample ID: CS 29

Prep Type: Total/NA

Prep Batch: 87446

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	113		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87552/1-A

Matrix: Solid

Analysis Batch: 87626

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Chloride	<5.00	U		5.00		mg/Kg			08/07/24 15:14	1

Lab Sample ID: LCS 880-87552/2-A

Matrix: Solid

Analysis Batch: 87626

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte		Spike	LCS	LCS				%Rec	
		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		250	245.5		mg/Kg		98	90 - 110	

Lab Sample ID: LCSD 880-87552/3-A

Matrix: Solid

Analysis Batch: 87626

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte		Spike	LCSD	LCSD				%Rec		RPD
		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250	245.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-87553/1-A

Matrix: Solid

Analysis Batch: 87649

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Chloride	<5.00	U		5.00		mg/Kg			08/07/24 07:06	1

Lab Sample ID: LCS 880-87553/2-A

Matrix: Solid

Analysis Batch: 87649

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte		Spike	LCS	LCS				%Rec	
		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		250	235.0		mg/Kg		94	90 - 110	

Lab Sample ID: LCSD 880-87553/3-A

Matrix: Solid

Analysis Batch: 87649

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte		Spike	LCSD	LCSD				%Rec		RPD
		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250	235.3		mg/Kg		94	90 - 110	0	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-6973-4 MS Matrix: Solid Analysis Batch: 87649											Client Sample ID: CS 04 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	76.4	F1	248	270.3	F1	mg/Kg		78	90 - 110				
Lab Sample ID: 890-6973-4 MSD Matrix: Solid Analysis Batch: 87649											Client Sample ID: CS 04 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	76.4	F1	248	271.4	F1	mg/Kg		79	90 - 110	0	20		
Lab Sample ID: 890-6973-14 MS Matrix: Solid Analysis Batch: 87649											Client Sample ID: CS 14 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	40.6		251	296.3		mg/Kg		102	90 - 110				
Lab Sample ID: 890-6973-14 MSD Matrix: Solid Analysis Batch: 87649											Client Sample ID: CS 14 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	40.6		251	296.4		mg/Kg		102	90 - 110	0	20		
Lab Sample ID: MB 880-87554/1-A Matrix: Solid Analysis Batch: 87655											Client Sample ID: Method Blank Prep Type: Soluble		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac				
Chloride	<5.00	U	5.00		mg/Kg			08/07/24 19:51	1				
Lab Sample ID: LCS 880-87554/2-A Matrix: Solid Analysis Batch: 87655											Client Sample ID: Lab Control Sample Prep Type: Soluble		
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride			250	246.8		mg/Kg		99	90 - 110				
Lab Sample ID: LCSD 880-87554/3-A Matrix: Solid Analysis Batch: 87655											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	247.5		mg/Kg		99	90 - 110	0	20		
Lab Sample ID: 890-6973-24 MS Matrix: Solid Analysis Batch: 87655											Client Sample ID: CS 24 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	8.33	F1	251	337.1	F1	mg/Kg		131	90 - 110				

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-6973-24 MSD										Client Sample ID: CS 24		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 87655												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	8.33	F1	251	334.8	F1	mg/Kg		130	90 - 110	1	20	

Lab Sample ID: 890-6973-34 MS										Client Sample ID: CS 34		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 87655												
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	40.8	F1	250	327.1	F1	mg/Kg		115	90 - 110			

Lab Sample ID: 890-6973-34 MSD										Client Sample ID: CS 34		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 87655												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	40.8	F1	250	321.0	F1	mg/Kg		112	90 - 110	2	20	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

GC VOA

Analysis Batch: 87458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-1	CS 01	Total/NA	Solid	8021B	87487
890-6973-2	CS 02	Total/NA	Solid	8021B	87487
890-6973-3	CS 03	Total/NA	Solid	8021B	87487
890-6973-4	CS 04	Total/NA	Solid	8021B	87487
890-6973-5	CS 05	Total/NA	Solid	8021B	87487
890-6973-6	CS 06	Total/NA	Solid	8021B	87487
890-6973-7	CS 07	Total/NA	Solid	8021B	87487
890-6973-8	CS 08	Total/NA	Solid	8021B	87487
890-6973-9	CS 09	Total/NA	Solid	8021B	87487
890-6973-10	CS 10	Total/NA	Solid	8021B	87487
890-6973-11	CS 11	Total/NA	Solid	8021B	87487
890-6973-12	CS 12	Total/NA	Solid	8021B	87487
890-6973-13	CS 13	Total/NA	Solid	8021B	87487
890-6973-14	CS 14	Total/NA	Solid	8021B	87487
890-6973-15	CS 15	Total/NA	Solid	8021B	87487
890-6973-16	CS 16	Total/NA	Solid	8021B	87487
890-6973-17	CS 17	Total/NA	Solid	8021B	87487
890-6973-18	CS 18	Total/NA	Solid	8021B	87487
890-6973-19	CS 19	Total/NA	Solid	8021B	87487
890-6973-20	CS 20	Total/NA	Solid	8021B	87487
MB 880-87475/5-A	Method Blank	Total/NA	Solid	8021B	87475
MB 880-87487/5-A	Method Blank	Total/NA	Solid	8021B	87487
LCS 880-87487/1-A	Lab Control Sample	Total/NA	Solid	8021B	87487
LCSD 880-87487/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87487
890-6973-1 MS	CS 01	Total/NA	Solid	8021B	87487
890-6973-1 MSD	CS 01	Total/NA	Solid	8021B	87487

Prep Batch: 87475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-87475/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 87487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-1	CS 01	Total/NA	Solid	5035	
890-6973-2	CS 02	Total/NA	Solid	5035	
890-6973-3	CS 03	Total/NA	Solid	5035	
890-6973-4	CS 04	Total/NA	Solid	5035	
890-6973-5	CS 05	Total/NA	Solid	5035	
890-6973-6	CS 06	Total/NA	Solid	5035	
890-6973-7	CS 07	Total/NA	Solid	5035	
890-6973-8	CS 08	Total/NA	Solid	5035	
890-6973-9	CS 09	Total/NA	Solid	5035	
890-6973-10	CS 10	Total/NA	Solid	5035	
890-6973-11	CS 11	Total/NA	Solid	5035	
890-6973-12	CS 12	Total/NA	Solid	5035	
890-6973-13	CS 13	Total/NA	Solid	5035	
890-6973-14	CS 14	Total/NA	Solid	5035	
890-6973-15	CS 15	Total/NA	Solid	5035	
890-6973-16	CS 16	Total/NA	Solid	5035	
890-6973-17	CS 17	Total/NA	Solid	5035	
890-6973-18	CS 18	Total/NA	Solid	5035	

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

GC VOA (Continued)

Prep Batch: 87487 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-19	CS 19	Total/NA	Solid	5035	
890-6973-20	CS 20	Total/NA	Solid	5035	
MB 880-87487/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87487/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87487/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6973-1 MS	CS 01	Total/NA	Solid	5035	
890-6973-1 MSD	CS 01	Total/NA	Solid	5035	

Prep Batch: 87488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-21	CS 21	Total/NA	Solid	5035	
890-6973-22	CS 22	Total/NA	Solid	5035	
890-6973-23	CS 23	Total/NA	Solid	5035	
890-6973-24	CS 24	Total/NA	Solid	5035	
890-6973-25	CS 25	Total/NA	Solid	5035	
890-6973-26	CS 26	Total/NA	Solid	5035	
890-6973-27	CS 27	Total/NA	Solid	5035	
890-6973-28	CS 28	Total/NA	Solid	5035	
890-6973-29	CS 29	Total/NA	Solid	5035	
890-6973-30	CS 30	Total/NA	Solid	5035	
890-6973-31	CS 31	Total/NA	Solid	5035	
890-6973-32	CS 32	Total/NA	Solid	5035	
890-6973-33	CS 33	Total/NA	Solid	5035	
890-6973-34	CS 34	Total/NA	Solid	5035	
890-6973-35	CS 35	Total/NA	Solid	5035	
890-6973-36	CS 36	Total/NA	Solid	5035	
MB 880-87488/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87488/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87488/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6973-21 MS	CS 21	Total/NA	Solid	5035	
890-6973-21 MSD	CS 21	Total/NA	Solid	5035	

Analysis Batch: 87590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-21	CS 21	Total/NA	Solid	8021B	87488
890-6973-22	CS 22	Total/NA	Solid	8021B	87488
890-6973-23	CS 23	Total/NA	Solid	8021B	87488
890-6973-24	CS 24	Total/NA	Solid	8021B	87488
890-6973-25	CS 25	Total/NA	Solid	8021B	87488
890-6973-26	CS 26	Total/NA	Solid	8021B	87488
890-6973-27	CS 27	Total/NA	Solid	8021B	87488
890-6973-28	CS 28	Total/NA	Solid	8021B	87488
890-6973-29	CS 29	Total/NA	Solid	8021B	87488
890-6973-30	CS 30	Total/NA	Solid	8021B	87488
890-6973-31	CS 31	Total/NA	Solid	8021B	87488
890-6973-32	CS 32	Total/NA	Solid	8021B	87488
890-6973-33	CS 33	Total/NA	Solid	8021B	87488
890-6973-34	CS 34	Total/NA	Solid	8021B	87488
890-6973-35	CS 35	Total/NA	Solid	8021B	87488
890-6973-36	CS 36	Total/NA	Solid	8021B	87488
MB 880-87488/5-A	Method Blank	Total/NA	Solid	8021B	87488

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

GC VOA (Continued)

Analysis Batch: 87590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-87488/1-A	Lab Control Sample	Total/NA	Solid	8021B	87488
LCSD 880-87488/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87488
890-6973-21 MS	CS 21	Total/NA	Solid	8021B	87488
890-6973-21 MSD	CS 21	Total/NA	Solid	8021B	87488

Analysis Batch: 87673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-1	CS 01	Total/NA	Solid	Total BTEX	
890-6973-2	CS 02	Total/NA	Solid	Total BTEX	
890-6973-3	CS 03	Total/NA	Solid	Total BTEX	
890-6973-4	CS 04	Total/NA	Solid	Total BTEX	
890-6973-5	CS 05	Total/NA	Solid	Total BTEX	
890-6973-6	CS 06	Total/NA	Solid	Total BTEX	
890-6973-7	CS 07	Total/NA	Solid	Total BTEX	
890-6973-8	CS 08	Total/NA	Solid	Total BTEX	
890-6973-9	CS 09	Total/NA	Solid	Total BTEX	
890-6973-10	CS 10	Total/NA	Solid	Total BTEX	
890-6973-11	CS 11	Total/NA	Solid	Total BTEX	
890-6973-12	CS 12	Total/NA	Solid	Total BTEX	
890-6973-13	CS 13	Total/NA	Solid	Total BTEX	
890-6973-14	CS 14	Total/NA	Solid	Total BTEX	
890-6973-15	CS 15	Total/NA	Solid	Total BTEX	
890-6973-16	CS 16	Total/NA	Solid	Total BTEX	
890-6973-17	CS 17	Total/NA	Solid	Total BTEX	
890-6973-18	CS 18	Total/NA	Solid	Total BTEX	
890-6973-19	CS 19	Total/NA	Solid	Total BTEX	
890-6973-20	CS 20	Total/NA	Solid	Total BTEX	
890-6973-21	CS 21	Total/NA	Solid	Total BTEX	
890-6973-22	CS 22	Total/NA	Solid	Total BTEX	
890-6973-23	CS 23	Total/NA	Solid	Total BTEX	
890-6973-24	CS 24	Total/NA	Solid	Total BTEX	
890-6973-25	CS 25	Total/NA	Solid	Total BTEX	
890-6973-26	CS 26	Total/NA	Solid	Total BTEX	
890-6973-27	CS 27	Total/NA	Solid	Total BTEX	
890-6973-28	CS 28	Total/NA	Solid	Total BTEX	
890-6973-29	CS 29	Total/NA	Solid	Total BTEX	
890-6973-30	CS 30	Total/NA	Solid	Total BTEX	
890-6973-31	CS 31	Total/NA	Solid	Total BTEX	
890-6973-32	CS 32	Total/NA	Solid	Total BTEX	
890-6973-33	CS 33	Total/NA	Solid	Total BTEX	
890-6973-34	CS 34	Total/NA	Solid	Total BTEX	
890-6973-35	CS 35	Total/NA	Solid	Total BTEX	
890-6973-36	CS 36	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-1	CS 01	Total/NA	Solid	8015NM Prep	
890-6973-2	CS 02	Total/NA	Solid	8015NM Prep	
890-6973-3	CS 03	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

GC Semi VOA (Continued)

Prep Batch: 87401 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-4	CS 04	Total/NA	Solid	8015NM Prep	
890-6973-5	CS 05	Total/NA	Solid	8015NM Prep	
890-6973-6	CS 06	Total/NA	Solid	8015NM Prep	
890-6973-7	CS 07	Total/NA	Solid	8015NM Prep	
890-6973-8	CS 08	Total/NA	Solid	8015NM Prep	
MB 880-87401/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87401/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87401/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 87445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-9	CS 09	Total/NA	Solid	8015NM Prep	
890-6973-10	CS 10	Total/NA	Solid	8015NM Prep	
890-6973-11	CS 11	Total/NA	Solid	8015NM Prep	
890-6973-12	CS 12	Total/NA	Solid	8015NM Prep	
890-6973-13	CS 13	Total/NA	Solid	8015NM Prep	
890-6973-14	CS 14	Total/NA	Solid	8015NM Prep	
890-6973-15	CS 15	Total/NA	Solid	8015NM Prep	
890-6973-16	CS 16	Total/NA	Solid	8015NM Prep	
890-6973-17	CS 17	Total/NA	Solid	8015NM Prep	
890-6973-18	CS 18	Total/NA	Solid	8015NM Prep	
890-6973-19	CS 19	Total/NA	Solid	8015NM Prep	
890-6973-20	CS 20	Total/NA	Solid	8015NM Prep	
890-6973-21	CS 21	Total/NA	Solid	8015NM Prep	
890-6973-22	CS 22	Total/NA	Solid	8015NM Prep	
890-6973-23	CS 23	Total/NA	Solid	8015NM Prep	
890-6973-24	CS 24	Total/NA	Solid	8015NM Prep	
890-6973-25	CS 25	Total/NA	Solid	8015NM Prep	
890-6973-26	CS 26	Total/NA	Solid	8015NM Prep	
890-6973-27	CS 27	Total/NA	Solid	8015NM Prep	
890-6973-28	CS 28	Total/NA	Solid	8015NM Prep	
MB 880-87445/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87445/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87445/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6973-9 MS	CS 09	Total/NA	Solid	8015NM Prep	
890-6973-9 MSD	CS 09	Total/NA	Solid	8015NM Prep	

Prep Batch: 87446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-29	CS 29	Total/NA	Solid	8015NM Prep	
890-6973-30	CS 30	Total/NA	Solid	8015NM Prep	
890-6973-31	CS 31	Total/NA	Solid	8015NM Prep	
890-6973-32	CS 32	Total/NA	Solid	8015NM Prep	
890-6973-33	CS 33	Total/NA	Solid	8015NM Prep	
890-6973-34	CS 34	Total/NA	Solid	8015NM Prep	
890-6973-35	CS 35	Total/NA	Solid	8015NM Prep	
890-6973-36	CS 36	Total/NA	Solid	8015NM Prep	
MB 880-87446/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87446/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87446/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6973-29 MS	CS 29	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

GC Semi VOA (Continued)

Prep Batch: 87446 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-29 MSD	CS 29	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-29	CS 29	Total/NA	Solid	8015B NM	87446
890-6973-30	CS 30	Total/NA	Solid	8015B NM	87446
890-6973-31	CS 31	Total/NA	Solid	8015B NM	87446
890-6973-32	CS 32	Total/NA	Solid	8015B NM	87446
890-6973-33	CS 33	Total/NA	Solid	8015B NM	87446
890-6973-34	CS 34	Total/NA	Solid	8015B NM	87446
890-6973-35	CS 35	Total/NA	Solid	8015B NM	87446
890-6973-36	CS 36	Total/NA	Solid	8015B NM	87446
MB 880-87446/1-A	Method Blank	Total/NA	Solid	8015B NM	87446
LCS 880-87446/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87446
LCSD 880-87446/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87446
890-6973-29 MS	CS 29	Total/NA	Solid	8015B NM	87446
890-6973-29 MSD	CS 29	Total/NA	Solid	8015B NM	87446

Analysis Batch: 87619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-1	CS 01	Total/NA	Solid	8015B NM	87401
890-6973-2	CS 02	Total/NA	Solid	8015B NM	87401
890-6973-3	CS 03	Total/NA	Solid	8015B NM	87401
890-6973-4	CS 04	Total/NA	Solid	8015B NM	87401
890-6973-5	CS 05	Total/NA	Solid	8015B NM	87401
890-6973-6	CS 06	Total/NA	Solid	8015B NM	87401
890-6973-7	CS 07	Total/NA	Solid	8015B NM	87401
890-6973-8	CS 08	Total/NA	Solid	8015B NM	87401
890-6973-9	CS 09	Total/NA	Solid	8015B NM	87445
890-6973-10	CS 10	Total/NA	Solid	8015B NM	87445
890-6973-11	CS 11	Total/NA	Solid	8015B NM	87445
890-6973-12	CS 12	Total/NA	Solid	8015B NM	87445
890-6973-13	CS 13	Total/NA	Solid	8015B NM	87445
890-6973-14	CS 14	Total/NA	Solid	8015B NM	87445
890-6973-15	CS 15	Total/NA	Solid	8015B NM	87445
890-6973-16	CS 16	Total/NA	Solid	8015B NM	87445
890-6973-17	CS 17	Total/NA	Solid	8015B NM	87445
890-6973-18	CS 18	Total/NA	Solid	8015B NM	87445
890-6973-19	CS 19	Total/NA	Solid	8015B NM	87445
890-6973-20	CS 20	Total/NA	Solid	8015B NM	87445
890-6973-21	CS 21	Total/NA	Solid	8015B NM	87445
890-6973-22	CS 22	Total/NA	Solid	8015B NM	87445
890-6973-23	CS 23	Total/NA	Solid	8015B NM	87445
890-6973-24	CS 24	Total/NA	Solid	8015B NM	87445
890-6973-25	CS 25	Total/NA	Solid	8015B NM	87445
890-6973-26	CS 26	Total/NA	Solid	8015B NM	87445
890-6973-27	CS 27	Total/NA	Solid	8015B NM	87445
890-6973-28	CS 28	Total/NA	Solid	8015B NM	87445
MB 880-87401/1-A	Method Blank	Total/NA	Solid	8015B NM	87401
MB 880-87445/1-A	Method Blank	Total/NA	Solid	8015B NM	87445
LCS 880-87401/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87401

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

GC Semi VOA (Continued)

Analysis Batch: 87619 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-87445/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87445
LCSD 880-87401/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87401
LCSD 880-87445/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87445
890-6973-9 MS	CS 09	Total/NA	Solid	8015B NM	87445
890-6973-9 MSD	CS 09	Total/NA	Solid	8015B NM	87445

Analysis Batch: 87661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-1	CS 01	Total/NA	Solid	8015 NM	
890-6973-2	CS 02	Total/NA	Solid	8015 NM	
890-6973-3	CS 03	Total/NA	Solid	8015 NM	
890-6973-4	CS 04	Total/NA	Solid	8015 NM	
890-6973-5	CS 05	Total/NA	Solid	8015 NM	
890-6973-6	CS 06	Total/NA	Solid	8015 NM	
890-6973-7	CS 07	Total/NA	Solid	8015 NM	
890-6973-8	CS 08	Total/NA	Solid	8015 NM	
890-6973-9	CS 09	Total/NA	Solid	8015 NM	
890-6973-10	CS 10	Total/NA	Solid	8015 NM	
890-6973-11	CS 11	Total/NA	Solid	8015 NM	
890-6973-12	CS 12	Total/NA	Solid	8015 NM	
890-6973-13	CS 13	Total/NA	Solid	8015 NM	
890-6973-14	CS 14	Total/NA	Solid	8015 NM	
890-6973-15	CS 15	Total/NA	Solid	8015 NM	
890-6973-16	CS 16	Total/NA	Solid	8015 NM	
890-6973-17	CS 17	Total/NA	Solid	8015 NM	
890-6973-18	CS 18	Total/NA	Solid	8015 NM	
890-6973-19	CS 19	Total/NA	Solid	8015 NM	
890-6973-20	CS 20	Total/NA	Solid	8015 NM	
890-6973-21	CS 21	Total/NA	Solid	8015 NM	
890-6973-22	CS 22	Total/NA	Solid	8015 NM	
890-6973-23	CS 23	Total/NA	Solid	8015 NM	
890-6973-24	CS 24	Total/NA	Solid	8015 NM	
890-6973-25	CS 25	Total/NA	Solid	8015 NM	
890-6973-26	CS 26	Total/NA	Solid	8015 NM	
890-6973-27	CS 27	Total/NA	Solid	8015 NM	
890-6973-28	CS 28	Total/NA	Solid	8015 NM	
890-6973-29	CS 29	Total/NA	Solid	8015 NM	
890-6973-30	CS 30	Total/NA	Solid	8015 NM	
890-6973-31	CS 31	Total/NA	Solid	8015 NM	
890-6973-32	CS 32	Total/NA	Solid	8015 NM	
890-6973-33	CS 33	Total/NA	Solid	8015 NM	
890-6973-34	CS 34	Total/NA	Solid	8015 NM	
890-6973-35	CS 35	Total/NA	Solid	8015 NM	
890-6973-36	CS 36	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 87552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-1	CS 01	Soluble	Solid	DI Leach	
890-6973-2	CS 02	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

HPLC/IC (Continued)

Leach Batch: 87552 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-3	CS 03	Soluble	Solid	DI Leach	
MB 880-87552/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87552/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87552/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 87553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-4	CS 04	Soluble	Solid	DI Leach	
890-6973-5	CS 05	Soluble	Solid	DI Leach	
890-6973-6	CS 06	Soluble	Solid	DI Leach	
890-6973-7	CS 07	Soluble	Solid	DI Leach	
890-6973-8	CS 08	Soluble	Solid	DI Leach	
890-6973-9	CS 09	Soluble	Solid	DI Leach	
890-6973-10	CS 10	Soluble	Solid	DI Leach	
890-6973-11	CS 11	Soluble	Solid	DI Leach	
890-6973-12	CS 12	Soluble	Solid	DI Leach	
890-6973-13	CS 13	Soluble	Solid	DI Leach	
890-6973-14	CS 14	Soluble	Solid	DI Leach	
890-6973-15	CS 15	Soluble	Solid	DI Leach	
890-6973-16	CS 16	Soluble	Solid	DI Leach	
890-6973-17	CS 17	Soluble	Solid	DI Leach	
890-6973-18	CS 18	Soluble	Solid	DI Leach	
890-6973-19	CS 19	Soluble	Solid	DI Leach	
890-6973-20	CS 20	Soluble	Solid	DI Leach	
890-6973-21	CS 21	Soluble	Solid	DI Leach	
890-6973-22	CS 22	Soluble	Solid	DI Leach	
890-6973-23	CS 23	Soluble	Solid	DI Leach	
MB 880-87553/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87553/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87553/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6973-4 MS	CS 04	Soluble	Solid	DI Leach	
890-6973-4 MSD	CS 04	Soluble	Solid	DI Leach	
890-6973-14 MS	CS 14	Soluble	Solid	DI Leach	
890-6973-14 MSD	CS 14	Soluble	Solid	DI Leach	

Leach Batch: 87554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-24	CS 24	Soluble	Solid	DI Leach	
890-6973-25	CS 25	Soluble	Solid	DI Leach	
890-6973-26	CS 26	Soluble	Solid	DI Leach	
890-6973-27	CS 27	Soluble	Solid	DI Leach	
890-6973-28	CS 28	Soluble	Solid	DI Leach	
890-6973-29	CS 29	Soluble	Solid	DI Leach	
890-6973-30	CS 30	Soluble	Solid	DI Leach	
890-6973-31	CS 31	Soluble	Solid	DI Leach	
890-6973-32	CS 32	Soluble	Solid	DI Leach	
890-6973-33	CS 33	Soluble	Solid	DI Leach	
890-6973-34	CS 34	Soluble	Solid	DI Leach	
890-6973-35	CS 35	Soluble	Solid	DI Leach	
890-6973-36	CS 36	Soluble	Solid	DI Leach	
MB 880-87554/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

HPLC/IC (Continued)

Leach Batch: 87554 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-87554/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87554/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6973-24 MS	CS 24	Soluble	Solid	DI Leach	
890-6973-24 MSD	CS 24	Soluble	Solid	DI Leach	
890-6973-34 MS	CS 34	Soluble	Solid	DI Leach	
890-6973-34 MSD	CS 34	Soluble	Solid	DI Leach	

Analysis Batch: 87626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-1	CS 01	Soluble	Solid	300.0	87552
890-6973-2	CS 02	Soluble	Solid	300.0	87552
890-6973-3	CS 03	Soluble	Solid	300.0	87552
MB 880-87552/1-A	Method Blank	Soluble	Solid	300.0	87552
LCS 880-87552/2-A	Lab Control Sample	Soluble	Solid	300.0	87552
LCSD 880-87552/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87552

Analysis Batch: 87649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-4	CS 04	Soluble	Solid	300.0	87553
890-6973-5	CS 05	Soluble	Solid	300.0	87553
890-6973-6	CS 06	Soluble	Solid	300.0	87553
890-6973-7	CS 07	Soluble	Solid	300.0	87553
890-6973-8	CS 08	Soluble	Solid	300.0	87553
890-6973-9	CS 09	Soluble	Solid	300.0	87553
890-6973-10	CS 10	Soluble	Solid	300.0	87553
890-6973-11	CS 11	Soluble	Solid	300.0	87553
890-6973-12	CS 12	Soluble	Solid	300.0	87553
890-6973-13	CS 13	Soluble	Solid	300.0	87553
890-6973-14	CS 14	Soluble	Solid	300.0	87553
890-6973-15	CS 15	Soluble	Solid	300.0	87553
890-6973-16	CS 16	Soluble	Solid	300.0	87553
890-6973-17	CS 17	Soluble	Solid	300.0	87553
890-6973-18	CS 18	Soluble	Solid	300.0	87553
890-6973-19	CS 19	Soluble	Solid	300.0	87553
890-6973-20	CS 20	Soluble	Solid	300.0	87553
890-6973-21	CS 21	Soluble	Solid	300.0	87553
890-6973-22	CS 22	Soluble	Solid	300.0	87553
890-6973-23	CS 23	Soluble	Solid	300.0	87553
MB 880-87553/1-A	Method Blank	Soluble	Solid	300.0	87553
LCS 880-87553/2-A	Lab Control Sample	Soluble	Solid	300.0	87553
LCSD 880-87553/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87553
890-6973-4 MS	CS 04	Soluble	Solid	300.0	87553
890-6973-4 MSD	CS 04	Soluble	Solid	300.0	87553
890-6973-14 MS	CS 14	Soluble	Solid	300.0	87553
890-6973-14 MSD	CS 14	Soluble	Solid	300.0	87553

Analysis Batch: 87655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-24	CS 24	Soluble	Solid	300.0	87554
890-6973-25	CS 25	Soluble	Solid	300.0	87554
890-6973-26	CS 26	Soluble	Solid	300.0	87554

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

HPLC/IC (Continued)

Analysis Batch: 87655 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6973-27	CS 27	Soluble	Solid	300.0	87554
890-6973-28	CS 28	Soluble	Solid	300.0	87554
890-6973-29	CS 29	Soluble	Solid	300.0	87554
890-6973-30	CS 30	Soluble	Solid	300.0	87554
890-6973-31	CS 31	Soluble	Solid	300.0	87554
890-6973-32	CS 32	Soluble	Solid	300.0	87554
890-6973-33	CS 33	Soluble	Solid	300.0	87554
890-6973-34	CS 34	Soluble	Solid	300.0	87554
890-6973-35	CS 35	Soluble	Solid	300.0	87554
890-6973-36	CS 36	Soluble	Solid	300.0	87554
MB 880-87554/1-A	Method Blank	Soluble	Solid	300.0	87554
LCS 880-87554/2-A	Lab Control Sample	Soluble	Solid	300.0	87554
LCSD 880-87554/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87554
890-6973-24 MS	CS 24	Soluble	Solid	300.0	87554
890-6973-24 MSD	CS 24	Soluble	Solid	300.0	87554
890-6973-34 MS	CS 34	Soluble	Solid	300.0	87554
890-6973-34 MSD	CS 34	Soluble	Solid	300.0	87554

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 01

Date Collected: 08/02/24 09:00

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-1

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	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 00:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 00:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/06/24 16:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87401	08/02/24 15:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/06/24 16:02	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87552	08/05/24 14:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87626	08/07/24 18:03	CH	EET MID

Client Sample ID: CS 02

Date Collected: 08/02/24 09:10

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-2

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			5.01 g	5 mL	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 00:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 00:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/06/24 16:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	87401	08/02/24 15:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/06/24 16:20	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	87552	08/05/24 14:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87626	08/07/24 18:09	CH	EET MID

Client Sample ID: CS 03

Date Collected: 08/02/24 09:20

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-3

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			5.00 g	5 mL	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 00:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 00:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/06/24 16:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87401	08/02/24 15:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/06/24 16:38	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	87552	08/05/24 14:05	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87626	08/07/24 18:15	CH	EET MID

Client Sample ID: CS 04

Date Collected: 08/02/24 09:30

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 01:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 01:10	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 04**Lab Sample ID: 890-6973-4****Date Collected: 08/02/24 09:30****Matrix: Solid****Date Received: 08/02/24 15:31**

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			87661	08/06/24 16:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87401	08/02/24 15:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/06/24 16:56	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 07:24	CH	EET MID

Client Sample ID: CS 05**Lab Sample ID: 890-6973-5****Date Collected: 08/02/24 09:40****Matrix: Solid****Date Received: 08/02/24 15:31**

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	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 01:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 01:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/06/24 17:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87401	08/02/24 15:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/06/24 17:14	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 07:42	CH	EET MID

Client Sample ID: CS 06**Lab Sample ID: 890-6973-6****Date Collected: 08/02/24 09:50****Matrix: Solid****Date Received: 08/02/24 15:31**

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	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 01:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 01:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/06/24 17:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87401	08/02/24 15:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/06/24 17:33	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 07:48	CH	EET MID

Client Sample ID: CS 07**Lab Sample ID: 890-6973-7****Date Collected: 08/02/24 10:00****Matrix: Solid****Date Received: 08/02/24 15:31**

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	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 02:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 02:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/06/24 17:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87401	08/02/24 15:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/06/24 17:51	TKC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 07**Lab Sample ID: 890-6973-7****Date Collected: 08/02/24 10:00****Matrix: Solid****Date Received: 08/02/24 15:31**

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	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 07:54	CH	EET MID

Client Sample ID: CS 08**Lab Sample ID: 890-6973-8****Date Collected: 08/02/24 10:10****Matrix: Solid****Date Received: 08/02/24 15:31**

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	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 02:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 02:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/06/24 18:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87401	08/02/24 15:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/06/24 18:09	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 08:00	CH	EET MID

Client Sample ID: CS 09**Lab Sample ID: 890-6973-9****Date Collected: 08/02/24 10:20****Matrix: Solid****Date Received: 08/02/24 15:31**

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	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 02:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 02:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/06/24 21:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/06/24 21:07	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 08:18	CH	EET MID

Client Sample ID: CS 10**Lab Sample ID: 890-6973-10****Date Collected: 08/02/24 10:30****Matrix: Solid****Date Received: 08/02/24 15:31**

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	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 03:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 03:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/06/24 21:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/06/24 21:58	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 08:24	CH	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 11

Date Collected: 08/02/24 10:40

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-11

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			5.01 g	5 mL	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 05:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 05:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/06/24 22:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/06/24 22:15	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 08:30	CH	EET MID

Client Sample ID: CS 12

Date Collected: 08/02/24 10:50

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-12

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			5.00 g	5 mL	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 05:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 05:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/06/24 22:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/06/24 22:32	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 08:36	CH	EET MID

Client Sample ID: CS 13

Date Collected: 08/02/24 11:00

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-13

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	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 05:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 05:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/06/24 22:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/06/24 22:49	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 08:42	CH	EET MID

Client Sample ID: CS 14

Date Collected: 08/02/24 11:10

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-14

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			5.01 g	5 mL	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 06:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 06:04	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 14

Lab Sample ID: 890-6973-14

Date Collected: 08/02/24 11:10

Matrix: Solid

Date Received: 08/02/24 15:31

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			87661	08/06/24 23:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/06/24 23:05	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 08:48	CH	EET MID

Client Sample ID: CS 15

Lab Sample ID: 890-6973-15

Date Collected: 08/02/24 11:20

Matrix: Solid

Date Received: 08/02/24 15:31

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	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 06:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 06:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/06/24 23:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/06/24 23:22	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 09:07	CH	EET MID

Client Sample ID: CS 16

Lab Sample ID: 890-6973-16

Date Collected: 08/02/24 11:30

Matrix: Solid

Date Received: 08/02/24 15:31

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	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 06:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 06:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/06/24 23:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/06/24 23:38	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 09:13	CH	EET MID

Client Sample ID: CS 17

Lab Sample ID: 890-6973-17

Date Collected: 08/02/24 11:40

Matrix: Solid

Date Received: 08/02/24 15:31

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	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 07:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 07:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/06/24 23:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/06/24 23:55	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 17**Lab Sample ID: 890-6973-17****Date Collected: 08/02/24 11:40****Matrix: Solid****Date Received: 08/02/24 15:31**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 09:31	CH	EET MID

Client Sample ID: CS 18**Lab Sample ID: 890-6973-18****Date Collected: 08/02/24 11:50****Matrix: Solid****Date Received: 08/02/24 15:31**

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	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 07:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 07:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/07/24 00:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/07/24 00:11	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 09:37	CH	EET MID

Client Sample ID: CS 19**Lab Sample ID: 890-6973-19****Date Collected: 08/02/24 12:00****Matrix: Solid****Date Received: 08/02/24 15:31**

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	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 07:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 07:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/07/24 00:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/07/24 00:44	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 09:43	CH	EET MID

Client Sample ID: CS 20**Lab Sample ID: 890-6973-20****Date Collected: 08/02/24 12:10****Matrix: Solid****Date Received: 08/02/24 15:31**

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	87487	08/05/24 10:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87458	08/06/24 08:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 08:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/07/24 01:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/07/24 01:01	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 09:49	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 21

Date Collected: 08/02/24 12:20

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-21

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	87488	08/05/24 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87590	08/06/24 12:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 12:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/07/24 01:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/07/24 01:17	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 09:55	CH	EET MID

Client Sample ID: CS 22

Date Collected: 08/02/24 12:30

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-22

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			5.01 g	5 mL	87488	08/05/24 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87590	08/06/24 14:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 14:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/07/24 01:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/07/24 01:34	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 10:01	CH	EET MID

Client Sample ID: CS 23

Date Collected: 08/02/24 12:40

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-23

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			5.00 g	5 mL	87488	08/05/24 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87590	08/06/24 14:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/07/24 01:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/07/24 01:50	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	87553	08/05/24 14:07	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87649	08/07/24 10:07	CH	EET MID

Client Sample ID: CS 24

Date Collected: 08/02/24 12:50

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-24

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	87488	08/05/24 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87590	08/06/24 15:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 15:14	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 24**Lab Sample ID: 890-6973-24****Date Collected: 08/02/24 12:50****Matrix: Solid****Date Received: 08/02/24 15:31**

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			87661	08/07/24 09:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/07/24 09:41	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 20:06	CH	EET MID

Client Sample ID: CS 25**Lab Sample ID: 890-6973-25****Date Collected: 08/02/24 13:00****Matrix: Solid****Date Received: 08/02/24 15:31**

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	87488	08/05/24 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87590	08/06/24 15:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 15:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/07/24 09:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/07/24 09:59	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 20:22	CH	EET MID

Client Sample ID: CS 26**Lab Sample ID: 890-6973-26****Date Collected: 08/02/24 13:10****Matrix: Solid****Date Received: 08/02/24 15:31**

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	87488	08/05/24 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87590	08/06/24 15:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 15:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/07/24 10:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/07/24 10:16	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 20:27	CH	EET MID

Client Sample ID: CS 27**Lab Sample ID: 890-6973-27****Date Collected: 08/02/24 13:20****Matrix: Solid****Date Received: 08/02/24 15:31**

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	87488	08/05/24 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87590	08/06/24 17:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 17:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/07/24 10:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/07/24 10:35	TKC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 27

Lab Sample ID: 890-6973-27

Date Collected: 08/02/24 13:20

Matrix: Solid

Date Received: 08/02/24 15:31

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 20:32	CH	EET MID

Client Sample ID: CS 28

Lab Sample ID: 890-6973-28

Date Collected: 08/02/24 13:30

Matrix: Solid

Date Received: 08/02/24 15:31

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	87488	08/05/24 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87590	08/06/24 18:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 18:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/07/24 10:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87445	08/03/24 15:56	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87619	08/07/24 10:53	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 20:38	CH	EET MID

Client Sample ID: CS 29

Lab Sample ID: 890-6973-29

Date Collected: 08/02/24 13:40

Matrix: Solid

Date Received: 08/02/24 15:31

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	87488	08/05/24 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87590	08/06/24 18:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 18:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/05/24 20:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/05/24 20:57	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 20:53	CH	EET MID

Client Sample ID: CS 30

Lab Sample ID: 890-6973-30

Date Collected: 08/02/24 13:50

Matrix: Solid

Date Received: 08/02/24 15:31

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	87488	08/05/24 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87590	08/06/24 18:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 18:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/05/24 21:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/05/24 21:58	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 20:58	CH	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 31

Date Collected: 08/02/24 14:00

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-31

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			5.01 g	5 mL	87488	08/05/24 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87590	08/06/24 19:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 19:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/05/24 22:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/05/24 22:19	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 21:04	CH	EET MID

Client Sample ID: CS 32

Date Collected: 08/02/24 14:10

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-32

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			5.00 g	5 mL	87488	08/05/24 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87590	08/06/24 19:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 19:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/05/24 22:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/05/24 22:39	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 21:09	CH	EET MID

Client Sample ID: CS 33

Date Collected: 08/02/24 14:20

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-33

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	87488	08/05/24 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87590	08/06/24 19:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 19:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/05/24 23:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/05/24 23:00	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 21:14	CH	EET MID

Client Sample ID: CS 34

Date Collected: 08/02/24 14:30

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-34

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			5.01 g	5 mL	87488	08/05/24 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87590	08/06/24 20:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 20:10	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Client Sample ID: CS 34
Date Collected: 08/02/24 14:30
Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-34
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			87661	08/05/24 23:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/05/24 23:20	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 21:19	CH	EET MID

Client Sample ID: CS 35
Date Collected: 08/02/24 14:40
Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-35
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			5.00 g	5 mL	87488	08/05/24 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87590	08/06/24 20:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 20:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/05/24 23:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/05/24 23:40	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 21:35	CH	EET MID

Client Sample ID: CS 36
Date Collected: 08/02/24 14:50
Date Received: 08/02/24 15:31

Lab Sample ID: 890-6973-36
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	87488	08/05/24 10:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87590	08/06/24 20:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87673	08/06/24 20:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			87661	08/06/24 00:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/06/24 00:00	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 21:40	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: The Contest CTB

Job ID: 890-6973-1
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: The Contest CTB

Job ID: 890-6973-1
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: The Contest CTB

Job ID: 890-6973-1
SDG: Lea County,NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6973-1	CS 01	Solid	08/02/24 09:00	08/02/24 15:31	4'
890-6973-2	CS 02	Solid	08/02/24 09:10	08/02/24 15:31	4'
890-6973-3	CS 03	Solid	08/02/24 09:20	08/02/24 15:31	4'
890-6973-4	CS 04	Solid	08/02/24 09:30	08/02/24 15:31	4'
890-6973-5	CS 05	Solid	08/02/24 09:40	08/02/24 15:31	4'
890-6973-6	CS 06	Solid	08/02/24 09:50	08/02/24 15:31	4'
890-6973-7	CS 07	Solid	08/02/24 10:00	08/02/24 15:31	4'
890-6973-8	CS 08	Solid	08/02/24 10:10	08/02/24 15:31	4'
890-6973-9	CS 09	Solid	08/02/24 10:20	08/02/24 15:31	4'
890-6973-10	CS 10	Solid	08/02/24 10:30	08/02/24 15:31	4'
890-6973-11	CS 11	Solid	08/02/24 10:40	08/02/24 15:31	4'
890-6973-12	CS 12	Solid	08/02/24 10:50	08/02/24 15:31	4'
890-6973-13	CS 13	Solid	08/02/24 11:00	08/02/24 15:31	4'
890-6973-14	CS 14	Solid	08/02/24 11:10	08/02/24 15:31	4'
890-6973-15	CS 15	Solid	08/02/24 11:20	08/02/24 15:31	4'
890-6973-16	CS 16	Solid	08/02/24 11:30	08/02/24 15:31	4'
890-6973-17	CS 17	Solid	08/02/24 11:40	08/02/24 15:31	4'
890-6973-18	CS 18	Solid	08/02/24 11:50	08/02/24 15:31	4'
890-6973-19	CS 19	Solid	08/02/24 12:00	08/02/24 15:31	4'
890-6973-20	CS 20	Solid	08/02/24 12:10	08/02/24 15:31	4'
890-6973-21	CS 21	Solid	08/02/24 12:20	08/02/24 15:31	4'
890-6973-22	CS 22	Solid	08/02/24 12:30	08/02/24 15:31	4'
890-6973-23	CS 23	Solid	08/02/24 12:40	08/02/24 15:31	4'
890-6973-24	CS 24	Solid	08/02/24 12:50	08/02/24 15:31	4'
890-6973-25	CS 25	Solid	08/02/24 13:00	08/02/24 15:31	4'
890-6973-26	CS 26	Solid	08/02/24 13:10	08/02/24 15:31	4'
890-6973-27	CS 27	Solid	08/02/24 13:20	08/02/24 15:31	4'
890-6973-28	CS 28	Solid	08/02/24 13:30	08/02/24 15:31	4'
890-6973-29	CS 29	Solid	08/02/24 13:40	08/02/24 15:31	4'
890-6973-30	CS 30	Solid	08/02/24 13:50	08/02/24 15:31	4'
890-6973-31	CS 31	Solid	08/02/24 14:00	08/02/24 15:31	4'
890-6973-32	CS 32	Solid	08/02/24 14:10	08/02/24 15:31	4'
890-6973-33	CS 33	Solid	08/02/24 14:20	08/02/24 15:31	4'
890-6973-34	CS 34	Solid	08/02/24 14:30	08/02/24 15:31	4'
890-6973-35	CS 35	Solid	08/02/24 14:40	08/02/24 15:31	4'
890-6973-36	CS 36	Solid	08/02/24 14:50	08/02/24 15:31	4'

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 9

Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
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: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

Project Name:		The Contest CTB		Turn Around		ANALYSIS REQUEST										Preservative Codes						
Project Number:		2288		☒ Routine ☐ Rush		Pres. Code												None: NO DI Water: H ₂ O				
Project Location:		Lea County, NM		Due Date:		5 day TAT												Cool MeOH: Me				
Sampler's Name:		Gilbert Moreno		TAT starts the day received by the lab, if received by 4:30pm												HC HNO ₃ : HN						
PO #:																H ₂ NaOH: Na						
SAMPLE RECEIPT		Temp Blank: Yes No		Wet Ice: Yes No												HP						
Samples Received Intact:		Yes No		Thermometer ID:												O ₄ : NABIS						
Cooler Custody Seals:		Yes No N/A		Correction Factor:												H ₂ O ₂ : NaSO ₃						
Sample Custody Seals:		Yes No N/A		Temperature Reading:												Zn Acetate+NaOH: Zn						
Total Containers:				Corrected Temperature:												NaOH+Ascorbic Acid: SAPC						
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH	Chloride	BTEX											Sample Comments	
CS01		S	8/2/2024	9:00	4'	C	1	X	X	X											Incident Number	
CS02		S	8/2/2024	9:10	4'	C	1	X	X	X											nAPP2327037534	
CS03		S	8/2/2024	9:20	4'	C	1	X	X	X												
CS04		S	8/2/2024	9:30	4'	C	1	X	X	X												
CS05		S	8/2/2024	9:40	4'	C	1	X	X	X												
CS06		S	8/2/2024	9:50	4'	C	1	X	X	X												
CS07		S	8/2/2024	10:00	4'	C	1	X	X	X												
CS08		S	8/2/2024	10:10	4'	C	1	X	X	X												
CS09		S	8/2/2024	10:20	4'	C	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
Circle Method(s) and Metal(s) to be analyzed					Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0			2		
3			4		
5			6		

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: _____

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Page 2 of 4

Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
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:	☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other:

Project Name:		The Contest CTB		Turn Around		ANALYSIS REQUEST										Preservative Codes			
Project Number:	2288	☒ Routine ☐ Rush		Pres. Code													None: NO	DI Water: H ₂ O	
Project Location:	Lea County, NM	Due Date:	5 day TAT														Cool: Cool	MeOH: Me	
Sampler's Name:	Gilbert Moreno	TAT starts the day received by the lab, if received by 4:30pm															HCL: HC	HNO ₃ : HN	
PO #:																	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 Intact:	Yes No	Thermometer ID:	11/10/07															NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes No	N/A	Correction Factor:	-0.2													Na ₂ S ₂ O ₃ : NaSO ₃		
Sample Custody Seals:	Yes No	N/A	Temperature Reading:	3.4													Zn Acetate+NaOH: Zn		
Total Containers:			Corrected Temperature:	3.2													NaOH+Ascorbic Acid: SAPC		
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH	Chloride	BTEX									Sample Comments	
CS10	S	8/2/2024	10:30	4'	C	1	X	X	X									Incident Number	
CS11	S	8/2/2024	10:40	4'	C	1	X	X	X									nAPP2327037534	
CS12	S	8/2/2024	10:50	4'	C	1	X	X	X										
CS13	S	8/2/2024	11:00	4'	C	1	X	X	X										
CS14	S	8/2/2024	11:10	4'	C	1	X	X	X										
CS15	S	8/2/2024	11:20	4'	C	1	X	X	X										
CS16	S	8/2/2024	11:30	4'	C	1	X	X	X										
CS17	S	8/2/2024	11:40	4'	C	1	X	X	X										
CS18	S	8/2/2024	11:50	4'	C	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
Circle Method(s) and Metal(s) to be analyzed																Hg: 1631 / 245.1 / 7470 / 7471																

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0					2
3					4
5					6

Environment Testing
Xenco

Chain of Custody

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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

Work Order No: _____

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Page 3 of 4

Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
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:	☒ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other:

Project Name:		The Contest CTB		Turn Around		ANALYSIS REQUEST										Preservative Codes				
Project Number:	2288	☒ Routine ☐ Rush		Pres. Code													None: NO	DI Water: H ₂ O		
Project Location:	Lea County, NM	Due Date:	5 day TAT														Cool: Cool	MeOH: Me		
Sampler's Name:	Gilbert Moreno	TAT starts the day received by the lab, if received by 4:30pm															HCL: HC	HNO ₃ : HN		
PO #:																	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 Intact:	Yes No	Thermometer ID:	TAT		NaHSO ₄ : NABIS															
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2		Na ₂ S ₂ O ₃ : NaSO ₃															
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.4		Zn Acetate+NaOH: Zn															
Total Containers:		Corrected Temperature:	3.2												NaOH+Ascorbic Acid: SAPC					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH	Chloride	BTEX											Sample Comments
CS19	S	8/2/2024	12:00	4'	C	1	X	X	X											Incident Number
CS20	S	8/2/2024	12:10	4'	C	1	X	X	X											nAPP2327037534
CS21	S	8/2/2024	12:20	4'	C	1	X	X	X											
CS22	S	8/2/2024	12:30	4'	C	1	X	X	X											
CS23	S	8/2/2024	12:40	4'	C	1	X	X	X											
CS24	S	8/2/2024	12:50	4'	C	1	X	X	X											
CS25	S	8/2/2024	13:00	4'	C	1	X	X	X											
CS26	S	8/2/2024	13:10	4'	C	1	X	X	X											
CS27	S	8/2/2024	13:20	4'	C	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
Circle Method(s) and Metal(s) to be analyzed					Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0					2
3					4
5					6



Environment Testing
Xenco

Chain of Custody

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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

Work Order No: _____

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Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
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: UST/PST ☐ PRP ☐ Brownfields ☐ RRG ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

Project Name:		The Contest CTB		Turn Around		ANALYSIS REQUEST																Preservative Codes			
Project Number:		2288		☒ Routine ☐ Rush		Pres. Code																		None: NO DI Water: H ₂ O	
Project Location:		Lea County, NM		Due Date:		5 day TAT																		Cool: Cool MeOH: Me	
Sampler's Name:		Gilbert Moreno		TAT starts the day received by the lab, if received by 4:30pm																		HCL: HC HNO ₃ : HN			
PO #:																						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 Intact:		Yes No		Thermometer ID:																		NaHSO ₄ : NABIS			
Cooler Custody Seals:		Yes No N/A		Correction Factor:																		Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:		Yes No N/A		Temperature Reading:																		Zn Acetate+NaOH: Zn			
Total Containers:				Corrected Temperature:																		NaOH+Ascorbic Acid: SAPC			
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH	Chloride	BTEX											Sample Comments				
CS28		S	8/2/2024	13:25	4'	C	1	X	X	X											Incident Number				
CS29		S	8/2/2024	13:30	4'	C	1	X	X	X											nAPP2327037534				
CS30		S	8/2/2024	13:35	4'	C	1	X	X	X															
CS31		S	8/2/2024	13:40	4'	C	1	X	X	X															
CS32		S	8/2/2024	13:45	4'	C	1	X	X	X															
CS33		S	8/2/2024	13:50	4'	C	1	X	X	X															
CS34		S	8/2/2024	13:55	4'	C	1	X	X	X															
CS35		S	8/2/2024	14:00	4'	C	1	X	X	X															
CS36		S	8/2/2024	14:05	4'	C	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															
Circle Method(s) and Metal(s) to be analyzed		Hg: 1631 / 245.1 / 7470 / 7471															

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0			2		
3			4		
5			6		

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-6973-1

SDG Number: Lea County,NM

Login Number: 6973

List Number: 1

Creator: Bruns, Shannon

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: 890-6973-1
SDG Number: Lea County,NM

Login Number: 6973
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 08/03/24 09:49 AM

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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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
- 5
- 6
- 7
- 8
- 9
- 10
- 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 8/8/2024 9:56:17 AM

JOB DESCRIPTION

The Contest CTB
Lea County, NM

JOB NUMBER

890-6974-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



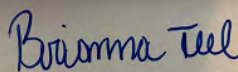
Eurofins Carlsbad

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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8/8/2024 9:56:17 AM

Authorized for release by
Brianna Teel, Project Manager
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Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Laboratory Job ID: 890-6974-1
SDG: Lea County,NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	17
Lab Chronicle	20
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	27

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6974-1
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
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: The Contest CTB

Job ID: 890-6974-1

Job ID: 890-6974-1

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Job Narrative 890-6974-1

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 8/2/2024 3:31 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 3.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW01 (890-6974-1), SW02 (890-6974-2), SW03 (890-6974-3), SW04 (890-6974-4), SW05 (890-6974-5), SW06 (890-6974-6), SW07 (890-6974-7), SW08 (890-6974-8) and SW09 (890-6974-9).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-87457 recovered under the lower control limit for Toluene and Ethylbenzene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

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 samples were outside control limits: SW01 (890-6974-1), SW02 (890-6974-2), SW03 (890-6974-3), SW04 (890-6974-4), SW05 (890-6974-5), SW06 (890-6974-6), SW07 (890-6974-7), SW08 (890-6974-8), SW09 (890-6974-9), (LCS 880-87446/2-A), (LCSD 880-87446/3-A) and (890-6973-A-29-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-87446 and analytical batch 880-87450 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.

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: The Contest CTB

Job ID: 890-6974-1
SDG: Lea County,NM

Client Sample ID: SW01

Lab Sample ID: 890-6974-1

Date Collected: 08/02/24 09:00

Matrix: Solid

Date Received: 08/02/24 15:31

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		08/05/24 10:51	08/06/24 03:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 03:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 03:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/24 10:51	08/06/24 03:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 03:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/24 10:51	08/06/24 03:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/05/24 10:51	08/06/24 03:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/05/24 10:51	08/06/24 03:32	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			08/06/24 03:32	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			08/06/24 00:21	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		08/03/24 15:59	08/06/24 00:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/03/24 15:59	08/06/24 00:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/24 15:59	08/06/24 00:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	08/03/24 15:59	08/06/24 00:21	1
o-Terphenyl	146	S1+	70 - 130	08/03/24 15:59	08/06/24 00:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.4		5.01		mg/Kg			08/07/24 21:56	1

Client Sample ID: SW02

Lab Sample ID: 890-6974-2

Date Collected: 08/02/24 09:10

Matrix: Solid

Date Received: 08/02/24 15:31

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		08/05/24 10:51	08/06/24 03:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 03:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 03:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 10:51	08/06/24 03:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 03:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 10:51	08/06/24 03:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/05/24 10:51	08/06/24 03:52	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/05/24 10:51	08/06/24 03:52	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6974-1
SDG: Lea County,NM

Client Sample ID: SW02

Lab Sample ID: 890-6974-2

Date Collected: 08/02/24 09:10

Matrix: Solid

Date Received: 08/02/24 15:31

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			08/06/24 03:52	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			08/06/24 00:41	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	<49.9	U	49.9		mg/Kg		08/03/24 15:59	08/06/24 00:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/03/24 15:59	08/06/24 00:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/24 15:59	08/06/24 00:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				08/03/24 15:59	08/06/24 00:41	1
o-Terphenyl	148	S1+	70 - 130				08/03/24 15:59	08/06/24 00:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.6		5.02		mg/Kg			08/07/24 22:01	1

Client Sample ID: SW03

Lab Sample ID: 890-6974-3

Date Collected: 08/02/24 09:20

Matrix: Solid

Date Received: 08/02/24 15:31

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		08/05/24 10:51	08/06/24 04:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:51	08/06/24 04:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:51	08/06/24 04:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/24 10:51	08/06/24 04:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/05/24 10:51	08/06/24 04:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/24 10:51	08/06/24 04:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/05/24 10:51	08/06/24 04:13	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/05/24 10:51	08/06/24 04:13	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			08/06/24 04:13	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			08/06/24 01:22	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	<49.7	U	49.7		mg/Kg		08/03/24 15:59	08/06/24 01:22	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/03/24 15:59	08/06/24 01:22	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6974-1
SDG: Lea County,NM

Client Sample ID: SW03

Lab Sample ID: 890-6974-3

Date Collected: 08/02/24 09:20

Matrix: Solid

Date Received: 08/02/24 15:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/03/24 15:59	08/06/24 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				08/03/24 15:59	08/06/24 01:22	1
o-Terphenyl	160	S1+	70 - 130				08/03/24 15:59	08/06/24 01:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.6		4.97		mg/Kg			08/07/24 22:06	1

Client Sample ID: SW04

Lab Sample ID: 890-6974-4

Date Collected: 08/02/24 09:30

Matrix: Solid

Date Received: 08/02/24 15:31

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		08/05/24 10:51	08/06/24 04:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 04:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 04:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/24 10:51	08/06/24 04:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 04:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/24 10:51	08/06/24 04:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/05/24 10:51	08/06/24 04:33	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/05/24 10:51	08/06/24 04:33	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			08/06/24 04:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/06/24 01:42	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		08/03/24 15:59	08/06/24 01:42	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/03/24 15:59	08/06/24 01:42	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/03/24 15:59	08/06/24 01:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130				08/03/24 15:59	08/06/24 01:42	1
o-Terphenyl	142	S1+	70 - 130				08/03/24 15:59	08/06/24 01:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.8		4.98		mg/Kg			08/07/24 22:12	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6974-1
SDG: Lea County,NM

Client Sample ID: SW05

Lab Sample ID: 890-6974-5

Date Collected: 08/02/24 09:40

Matrix: Solid

Date Received: 08/02/24 15:31

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		08/05/24 10:51	08/06/24 04:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 04:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 04:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 10:51	08/06/24 04:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 04:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 10:51	08/06/24 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/05/24 10:51	08/06/24 04:53	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/05/24 10:51	08/06/24 04:53	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			08/06/24 04:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/06/24 02:02	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	<49.8	U	49.8		mg/Kg		08/03/24 15:59	08/06/24 02:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/03/24 15:59	08/06/24 02:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/24 15:59	08/06/24 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130	08/03/24 15:59	08/06/24 02:02	1
o-Terphenyl	153	S1+	70 - 130	08/03/24 15:59	08/06/24 02:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.2		5.02		mg/Kg			08/07/24 22:17	1

Client Sample ID: SW06

Lab Sample ID: 890-6974-6

Date Collected: 08/02/24 09:50

Matrix: Solid

Date Received: 08/02/24 15:31

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		08/05/24 10:51	08/06/24 05:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:51	08/06/24 05:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:51	08/06/24 05:14	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/05/24 10:51	08/06/24 05:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:51	08/06/24 05:14	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/05/24 10:51	08/06/24 05:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/05/24 10:51	08/06/24 05:14	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/05/24 10:51	08/06/24 05:14	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6974-1
SDG: Lea County,NM

Client Sample ID: SW06

Lab Sample ID: 890-6974-6

Date Collected: 08/02/24 09:50

Matrix: Solid

Date Received: 08/02/24 15:31

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			08/06/24 05:14	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			08/06/24 02:22	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	<49.9	U	49.9		mg/Kg		08/03/24 15:59	08/06/24 02:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/03/24 15:59	08/06/24 02:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/24 15:59	08/06/24 02:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				08/03/24 15:59	08/06/24 02:22	1
o-Terphenyl	146	S1+	70 - 130				08/03/24 15:59	08/06/24 02:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.4		5.03		mg/Kg			08/07/24 22:22	1

Client Sample ID: SW07

Lab Sample ID: 890-6974-7

Date Collected: 08/02/24 10:00

Matrix: Solid

Date Received: 08/02/24 15:31

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		08/05/24 10:51	08/06/24 05:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:51	08/06/24 05:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:51	08/06/24 05:34	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/05/24 10:51	08/06/24 05:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/05/24 10:51	08/06/24 05:34	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/05/24 10:51	08/06/24 05:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/05/24 10:51	08/06/24 05:34	1
1,4-Difluorobenzene (Surr)	98		70 - 130				08/05/24 10:51	08/06/24 05:34	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			08/06/24 05:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/06/24 02:43	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		08/03/24 15:59	08/06/24 02:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/24 15:59	08/06/24 02:43	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6974-1
SDG: Lea County,NM

Client Sample ID: SW07

Lab Sample ID: 890-6974-7

Date Collected: 08/02/24 10:00

Matrix: Solid

Date Received: 08/02/24 15:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/24 15:59	08/06/24 02:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				08/03/24 15:59	08/06/24 02:43	1
o-Terphenyl	139	S1+	70 - 130				08/03/24 15:59	08/06/24 02:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.1		5.05		mg/Kg			08/07/24 22:27	1

Client Sample ID: SW08

Lab Sample ID: 890-6974-8

Date Collected: 08/02/24 10:10

Matrix: Solid

Date Received: 08/02/24 15:31

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		08/05/24 10:51	08/06/24 05:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 05:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 05:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/24 10:51	08/06/24 05:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 05:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/24 10:51	08/06/24 05:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/05/24 10:51	08/06/24 05:55	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/05/24 10:51	08/06/24 05:55	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			08/06/24 05:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/06/24 03:03	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		08/03/24 15:59	08/06/24 03:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/03/24 15:59	08/06/24 03:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/24 15:59	08/06/24 03:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				08/03/24 15:59	08/06/24 03:03	1
o-Terphenyl	161	S1+	70 - 130				08/03/24 15:59	08/06/24 03:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.0		4.98		mg/Kg			08/07/24 21:16	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6974-1
SDG: Lea County,NM

Client Sample ID: SW09

Lab Sample ID: 890-6974-9

Date Collected: 08/02/24 10:20

Matrix: Solid

Date Received: 08/02/24 15:31

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		08/05/24 10:51	08/06/24 06:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 06:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 06:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 10:51	08/06/24 06:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/06/24 06:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 10:51	08/06/24 06:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/05/24 10:51	08/06/24 06:15	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/05/24 10:51	08/06/24 06:15	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			08/06/24 06:15	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			08/06/24 03:23	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		08/03/24 15:59	08/06/24 03:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/03/24 15:59	08/06/24 03:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/24 15:59	08/06/24 03:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	08/03/24 15:59	08/06/24 03:23	1
o-Terphenyl	148	S1+	70 - 130	08/03/24 15:59	08/06/24 03:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	221		5.03		mg/Kg			08/07/24 21:22	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6974-1
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	DFBZ1				
		(70-130)	(70-130)				
890-6974-1	SW01	107	99				
890-6974-2	SW02	110	98				
890-6974-3	SW03	110	98				
890-6974-4	SW04	110	98				
890-6974-5	SW05	111	99				
890-6974-6	SW06	110	98				
890-6974-7	SW07	107	98				
890-6974-8	SW08	113	99				
890-6974-9	SW09	109	98				
LCS 880-87498/1-A	Lab Control Sample	103	98				
LCSD 880-87498/2-A	Lab Control Sample Dup	100	99				
MB 880-87470/5-A	Method Blank	107	92				
MB 880-87498/5-A	Method Blank	109	92				
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	OTPH1				
		(70-130)	(70-130)				
890-6974-1	SW01	135 S1+	146 S1+				
890-6974-2	SW02	130	148 S1+				
890-6974-3	SW03	147 S1+	160 S1+				
890-6974-4	SW04	129	142 S1+				
890-6974-5	SW05	137 S1+	153 S1+				
890-6974-6	SW06	133 S1+	146 S1+				
890-6974-7	SW07	128	139 S1+				
890-6974-8	SW08	148 S1+	161 S1+				
890-6974-9	SW09	130	148 S1+				
LCS 880-87446/2-A	Lab Control Sample	125	135 S1+				
LCSD 880-87446/3-A	Lab Control Sample Dup	129	149 S1+				
MB 880-87446/1-A	Method Blank	141 S1+	172 S1+				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6974-1
SDG: Lea County,NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-87470/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 87457							Prep Batch: 87470		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 11:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 11:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 09:23	08/05/24 11:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 11:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 09:23	08/05/24 11:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/05/24 09:23	08/05/24 11:34	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/05/24 09:23	08/05/24 11:34	1

Lab Sample ID: MB 880-87498/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 87457							Prep Batch: 87498		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/05/24 22:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/05/24 22:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/05/24 22:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 10:51	08/05/24 22:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 10:51	08/05/24 22:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 10:51	08/05/24 22:33	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/05/24 10:51	08/05/24 22:33	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/05/24 10:51	08/05/24 22:33	1

Lab Sample ID: LCS 880-87498/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 87457							Prep Batch: 87498		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.1028		mg/Kg		103	70 - 130		
Toluene	0.100	0.09261		mg/Kg		93	70 - 130		
Ethylbenzene	0.100	0.09478		mg/Kg		95	70 - 130		
m-Xylene & p-Xylene	0.200	0.1978		mg/Kg		99	70 - 130		
o-Xylene	0.100	0.09865		mg/Kg		99	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	103		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: LCSD 880-87498/2-A							Client Sample ID: Lab Control Sample Dup		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 87457							Prep Batch: 87498		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1130		mg/Kg		113	70 - 130	9	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6974-1
SDG: Lea County,NM

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

Lab Sample ID: LCSD 880-87498/2-A
Matrix: Solid
Analysis Batch: 87457

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87498

Analyte	Spike		LCSD		Unit	D	%Rec	%Rec		RPD
	Added	Result	Qualifier	Limit				Limits	RPD	
Toluene	0.100	0.1016			mg/Kg		102	70 - 130	9	35
Ethylbenzene	0.100	0.1040			mg/Kg		104	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2174			mg/Kg		109	70 - 130	9	35
o-Xylene	0.100	0.1083			mg/Kg		108	70 - 130	9	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-87446/1-A
Matrix: Solid
Analysis Batch: 87450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87446

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/24 15:59	08/05/24 19:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/24 15:59	08/05/24 19:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/24 15:59	08/05/24 19:55	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	141	S1+	70 - 130	08/03/24 15:59	08/05/24 19:55	1
o-Terphenyl	172	S1+	70 - 130	08/03/24 15:59	08/05/24 19:55	1

Lab Sample ID: LCS 880-87446/2-A
Matrix: Solid
Analysis Batch: 87450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87446

Analyte	Spike		LCS		Unit	D	%Rec	%Rec	
	Added	Result	Qualifier	Limit				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	1000	1190			mg/Kg		119	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1036			mg/Kg		104	70 - 130	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	125		70 - 130
o-Terphenyl	135	S1+	70 - 130

Lab Sample ID: LCSD 880-87446/3-A
Matrix: Solid
Analysis Batch: 87450

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87446

Analyte	Spike		LCSD		Unit	D	%Rec	%Rec		RPD
	Added	Result	Qualifier	Limit				Limits	RPD	
Gasoline Range Organics (GRO)-C6-C10	1000	1123			mg/Kg		112	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1069			mg/Kg		107	70 - 130	3	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6974-1
SDG: Lea County,NM

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

Lab Sample ID: LCSD 880-87446/3-A
Matrix: Solid
Analysis Batch: 87450

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87446

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	129		70 - 130
o-Terphenyl	149	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87554/1-A
Matrix: Solid
Analysis Batch: 87655

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			08/07/24 19:51	1

Lab Sample ID: LCS 880-87554/2-A
Matrix: Solid
Analysis Batch: 87655

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	250	246.8		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-87554/3-A
Matrix: Solid
Analysis Batch: 87655

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	250	247.5		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-87658/1-A
Matrix: Solid
Analysis Batch: 87682

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			08/07/24 18:45	1

Lab Sample ID: LCS 880-87658/2-A
Matrix: Solid
Analysis Batch: 87682

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	250	246.6		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-87658/3-A
Matrix: Solid
Analysis Batch: 87682

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	250	246.8		mg/Kg		99	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6974-1
SDG: Lea County,NM

GC VOA

Analysis Batch: 87457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6974-1	SW01	Total/NA	Solid	8021B	87498
890-6974-2	SW02	Total/NA	Solid	8021B	87498
890-6974-3	SW03	Total/NA	Solid	8021B	87498
890-6974-4	SW04	Total/NA	Solid	8021B	87498
890-6974-5	SW05	Total/NA	Solid	8021B	87498
890-6974-6	SW06	Total/NA	Solid	8021B	87498
890-6974-7	SW07	Total/NA	Solid	8021B	87498
890-6974-8	SW08	Total/NA	Solid	8021B	87498
890-6974-9	SW09	Total/NA	Solid	8021B	87498
MB 880-87470/5-A	Method Blank	Total/NA	Solid	8021B	87470
MB 880-87498/5-A	Method Blank	Total/NA	Solid	8021B	87498
LCS 880-87498/1-A	Lab Control Sample	Total/NA	Solid	8021B	87498
LCSD 880-87498/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87498

Prep Batch: 87470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-87470/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 87498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6974-1	SW01	Total/NA	Solid	5035	
890-6974-2	SW02	Total/NA	Solid	5035	
890-6974-3	SW03	Total/NA	Solid	5035	
890-6974-4	SW04	Total/NA	Solid	5035	
890-6974-5	SW05	Total/NA	Solid	5035	
890-6974-6	SW06	Total/NA	Solid	5035	
890-6974-7	SW07	Total/NA	Solid	5035	
890-6974-8	SW08	Total/NA	Solid	5035	
890-6974-9	SW09	Total/NA	Solid	5035	
MB 880-87498/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87498/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87498/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 87646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6974-1	SW01	Total/NA	Solid	Total BTEX	
890-6974-2	SW02	Total/NA	Solid	Total BTEX	
890-6974-3	SW03	Total/NA	Solid	Total BTEX	
890-6974-4	SW04	Total/NA	Solid	Total BTEX	
890-6974-5	SW05	Total/NA	Solid	Total BTEX	
890-6974-6	SW06	Total/NA	Solid	Total BTEX	
890-6974-7	SW07	Total/NA	Solid	Total BTEX	
890-6974-8	SW08	Total/NA	Solid	Total BTEX	
890-6974-9	SW09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6974-1	SW01	Total/NA	Solid	8015NM Prep	
890-6974-2	SW02	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6974-1
SDG: Lea County,NM

GC Semi VOA (Continued)

Prep Batch: 87446 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6974-3	SW03	Total/NA	Solid	8015NM Prep	
890-6974-4	SW04	Total/NA	Solid	8015NM Prep	
890-6974-5	SW05	Total/NA	Solid	8015NM Prep	
890-6974-6	SW06	Total/NA	Solid	8015NM Prep	
890-6974-7	SW07	Total/NA	Solid	8015NM Prep	
890-6974-8	SW08	Total/NA	Solid	8015NM Prep	
890-6974-9	SW09	Total/NA	Solid	8015NM Prep	
MB 880-87446/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87446/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87446/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6974-1	SW01	Total/NA	Solid	8015B NM	87446
890-6974-2	SW02	Total/NA	Solid	8015B NM	87446
890-6974-3	SW03	Total/NA	Solid	8015B NM	87446
890-6974-4	SW04	Total/NA	Solid	8015B NM	87446
890-6974-5	SW05	Total/NA	Solid	8015B NM	87446
890-6974-6	SW06	Total/NA	Solid	8015B NM	87446
890-6974-7	SW07	Total/NA	Solid	8015B NM	87446
890-6974-8	SW08	Total/NA	Solid	8015B NM	87446
890-6974-9	SW09	Total/NA	Solid	8015B NM	87446
MB 880-87446/1-A	Method Blank	Total/NA	Solid	8015B NM	87446
LCS 880-87446/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87446
LCSD 880-87446/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87446

Analysis Batch: 87662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6974-1	SW01	Total/NA	Solid	8015 NM	
890-6974-2	SW02	Total/NA	Solid	8015 NM	
890-6974-3	SW03	Total/NA	Solid	8015 NM	
890-6974-4	SW04	Total/NA	Solid	8015 NM	
890-6974-5	SW05	Total/NA	Solid	8015 NM	
890-6974-6	SW06	Total/NA	Solid	8015 NM	
890-6974-7	SW07	Total/NA	Solid	8015 NM	
890-6974-8	SW08	Total/NA	Solid	8015 NM	
890-6974-9	SW09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 87554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6974-1	SW01	Soluble	Solid	DI Leach	
890-6974-2	SW02	Soluble	Solid	DI Leach	
890-6974-3	SW03	Soluble	Solid	DI Leach	
890-6974-4	SW04	Soluble	Solid	DI Leach	
890-6974-5	SW05	Soluble	Solid	DI Leach	
890-6974-6	SW06	Soluble	Solid	DI Leach	
890-6974-7	SW07	Soluble	Solid	DI Leach	
MB 880-87554/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87554/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6974-1
SDG: Lea County,NM

HPLC/IC (Continued)

Leach Batch: 87554 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-87554/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 87655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6974-1	SW01	Soluble	Solid	300.0	87554
890-6974-2	SW02	Soluble	Solid	300.0	87554
890-6974-3	SW03	Soluble	Solid	300.0	87554
890-6974-4	SW04	Soluble	Solid	300.0	87554
890-6974-5	SW05	Soluble	Solid	300.0	87554
890-6974-6	SW06	Soluble	Solid	300.0	87554
890-6974-7	SW07	Soluble	Solid	300.0	87554
MB 880-87554/1-A	Method Blank	Soluble	Solid	300.0	87554
LCS 880-87554/2-A	Lab Control Sample	Soluble	Solid	300.0	87554
LCSD 880-87554/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87554

Leach Batch: 87658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6974-8	SW08	Soluble	Solid	DI Leach	
890-6974-9	SW09	Soluble	Solid	DI Leach	
MB 880-87658/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87658/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87658/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 87682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6974-8	SW08	Soluble	Solid	300.0	87658
890-6974-9	SW09	Soluble	Solid	300.0	87658
MB 880-87658/1-A	Method Blank	Soluble	Solid	300.0	87658
LCS 880-87658/2-A	Lab Control Sample	Soluble	Solid	300.0	87658
LCSD 880-87658/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87658

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6974-1
SDG: Lea County,NM

Client Sample ID: SW01

Date Collected: 08/02/24 09:00

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6974-1

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			5.01 g	5 mL	87498	08/05/24 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87457	08/06/24 03:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87646	08/06/24 03:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			87662	08/06/24 00:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/06/24 00:21	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 21:56	CH	EET MID

Client Sample ID: SW02

Date Collected: 08/02/24 09:10

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6974-2

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			5.00 g	5 mL	87498	08/05/24 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87457	08/06/24 03:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87646	08/06/24 03:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			87662	08/06/24 00:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/06/24 00:41	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 22:01	CH	EET MID

Client Sample ID: SW03

Date Collected: 08/02/24 09:20

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6974-3

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			4.98 g	5 mL	87498	08/05/24 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87457	08/06/24 04:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87646	08/06/24 04:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			87662	08/06/24 01:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/06/24 01:22	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 22:06	CH	EET MID

Client Sample ID: SW04

Date Collected: 08/02/24 09:30

Date Received: 08/02/24 15:31

Lab Sample ID: 890-6974-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	87498	08/05/24 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87457	08/06/24 04:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87646	08/06/24 04:33	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6974-1
SDG: Lea County,NM

Client Sample ID: SW04

Lab Sample ID: 890-6974-4

Date Collected: 08/02/24 09:30

Matrix: Solid

Date Received: 08/02/24 15:31

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			87662	08/06/24 01:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/06/24 01:42	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 22:12	CH	EET MID

Client Sample ID: SW05

Lab Sample ID: 890-6974-5

Date Collected: 08/02/24 09:40

Matrix: Solid

Date Received: 08/02/24 15:31

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	87498	08/05/24 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87457	08/06/24 04:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87646	08/06/24 04:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			87662	08/06/24 02:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/06/24 02:02	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 22:17	CH	EET MID

Client Sample ID: SW06

Lab Sample ID: 890-6974-6

Date Collected: 08/02/24 09:50

Matrix: Solid

Date Received: 08/02/24 15:31

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	87498	08/05/24 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87457	08/06/24 05:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87646	08/06/24 05:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			87662	08/06/24 02:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/06/24 02:22	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 22:22	CH	EET MID

Client Sample ID: SW07

Lab Sample ID: 890-6974-7

Date Collected: 08/02/24 10:00

Matrix: Solid

Date Received: 08/02/24 15:31

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	87498	08/05/24 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87457	08/06/24 05:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87646	08/06/24 05:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			87662	08/06/24 02:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/06/24 02:43	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6974-1
SDG: Lea County,NM

Client Sample ID: SW07
Date Collected: 08/02/24 10:00
Date Received: 08/02/24 15:31

Lab Sample ID: 890-6974-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	87554	08/05/24 14:09	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87655	08/07/24 22:27	CH	EET MID

Client Sample ID: SW08
Date Collected: 08/02/24 10:10
Date Received: 08/02/24 15:31

Lab Sample ID: 890-6974-8
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			5.01 g	5 mL	87498	08/05/24 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87457	08/06/24 05:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87646	08/06/24 05:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			87662	08/06/24 03:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/06/24 03:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87658	08/06/24 14:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87682	08/07/24 21:16	CH	EET MID

Client Sample ID: SW09
Date Collected: 08/02/24 10:20
Date Received: 08/02/24 15:31

Lab Sample ID: 890-6974-9
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			5.00 g	5 mL	87498	08/05/24 10:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87457	08/06/24 06:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87646	08/06/24 06:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			87662	08/06/24 03:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/06/24 03:23	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	87658	08/06/24 14:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87682	08/07/24 21:22	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: The Contest CTB

Job ID: 890-6974-1
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: The Contest CTB

Job ID: 890-6974-1
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: The Contest CTB

Job ID: 890-6974-1
SDG: Lea County,NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6974-1	SW01	Solid	08/02/24 09:00	08/02/24 15:31
890-6974-2	SW02	Solid	08/02/24 09:10	08/02/24 15:31
890-6974-3	SW03	Solid	08/02/24 09:20	08/02/24 15:31
890-6974-4	SW04	Solid	08/02/24 09:30	08/02/24 15:31
890-6974-5	SW05	Solid	08/02/24 09:40	08/02/24 15:31
890-6974-6	SW06	Solid	08/02/24 09:50	08/02/24 15:31
890-6974-7	SW07	Solid	08/02/24 10:00	08/02/24 15:31
890-6974-8	SW08	Solid	08/02/24 10:10	08/02/24 15:31
890-6974-9	SW09	Solid	08/02/24 10:20	08/02/24 15:31

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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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
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: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

Project Name:		The Contest CTB		Turn Around		ANALYSIS REQUEST										Preservative Codes						
Project Number:		2288		☒ Routine ☐ Rush		Pres. Code												None: NO DI Water: H ₂ O				
Project Location:		Lea County, NM		Due Date:		5 day TAT												Cool: Cool MeOH: Me				
Sampler's Name:		Gilbert Moreno		TAT starts the day received by the lab, if received by 4:30pm												HCL: HC HNO ₃ : HN						
PO #:																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 Intact:		Yes No		Thermometer ID:		1111000												NaHSO ₄ : NABIS				
Cooler Custody Seals:		Yes No N/A		Correction Factor:		-0.2												Na ₂ S ₂ O ₃ : NaSO ₃				
Sample Custody Seals:		Yes No N/A		Temperature Reading:		3.4												Zn Acetate+NaOH: Zn				
Total Containers:				Corrected Temperature:		3.2												NaOH+Ascorbic Acid: SAPC				
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH	Chloride	BTEX											Sample Comments	
SW01		S	8/2/2024	9:00	0-6'	C	1	X	X	X											Incident Number	
SW02		S	8/2/2024	9:10	0-4'	C	1	X	X	X											nAPP2327037534	
SW03		S	8/2/2024	9:20	0-4'	C	1	X	X	X												
SW04		S	8/2/2024	9:30	0-4'	C	1	X	X	X												
SW05		S	8/2/2024	9:40	0-4'	C	1	X	X	X												
SW06		S	8/2/2024	9:50	0-4'	C	1	X	X	X												
SW07		S	8/2/2024	10:00	0-4'	C	1	X	X	X												
SW08		S	8/2/2024	10:10	0-4'	C	1	X	X	X												
SW09		S	8/2/2024	10:20	0-4'	C	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																	
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
0		8/2 1531			
3					
5					

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-6974-1

SDG Number: Lea County,NM

Login Number: 6974

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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: 890-6974-1
SDG Number: Lea County,NM

Login Number: 6974
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 08/03/24 09:49 AM

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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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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- 2
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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 8/8/2024 9:56:32 AM

JOB DESCRIPTION

The Contest CTB
Lea County, NM

JOB NUMBER

890-6975-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



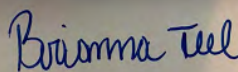
Eurofins Carlsbad

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
8/8/2024 9:56:32 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: The Contest CTB

Laboratory Job ID: 890-6975-1
SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6975-1
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
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: The Contest CTB

Job ID: 890-6975-1

Job ID: 890-6975-1

Eurofins Carlsbad

Job Narrative
890-6975-1

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 8/2/2024 4:35 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 3.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS37 (890-6975-1) and CS38 (890-6975-2).

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 samples were outside control limits: CS37 (890-6975-1), CS38 (890-6975-2), (LCS 880-87446/2-A), (LCSD 880-87446/3-A) and (890-6973-A-29-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-87446 and analytical batch 880-87450 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.

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: The Contest CTB

Job ID: 890-6975-1
SDG: Lea County, NM

Client Sample ID: CS37

Lab Sample ID: 890-6975-1

Date Collected: 08/02/24 14:10

Matrix: Solid

Date Received: 08/02/24 16:35

Sample Depth: 6'

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		08/05/24 09:23	08/05/24 16:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/24 09:23	08/05/24 16:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/24 09:23	08/05/24 16:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/24 09:23	08/05/24 16:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/05/24 09:23	08/05/24 16:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/24 09:23	08/05/24 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	08/05/24 09:23	08/05/24 16:56	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/05/24 09:23	08/05/24 16:56	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			08/05/24 16:56	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			08/06/24 03:44	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		08/03/24 15:59	08/06/24 03:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/24 15:59	08/06/24 03:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/24 15:59	08/06/24 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130	08/03/24 15:59	08/06/24 03:44	1
1-Chlorooctane	142	S1+	70 - 130	08/03/24 15:59	08/06/24 04:24	1
o-Terphenyl	167	S1+	70 - 130	08/03/24 15:59	08/06/24 03:44	1
o-Terphenyl	156	S1+	70 - 130	08/03/24 15:59	08/06/24 04:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			08/07/24 21:28	1

Client Sample ID: CS38

Lab Sample ID: 890-6975-2

Date Collected: 08/02/24 14:15

Matrix: Solid

Date Received: 08/02/24 16:35

Sample Depth: 6'

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		08/05/24 09:23	08/05/24 17:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 17:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 17:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/24 09:23	08/05/24 17:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 17:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/24 09:23	08/05/24 17:16	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6975-1
SDG: Lea County, NM

Client Sample ID: CS38
Date Collected: 08/02/24 14:15
Date Received: 08/02/24 16:35
Sample Depth: 6'

Lab Sample ID: 890-6975-2
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/05/24 09:23	08/05/24 17:16	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/05/24 09:23	08/05/24 17:16	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			08/05/24 17:16	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			08/06/24 04:04	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		08/03/24 15:59	08/06/24 04:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/03/24 15:59	08/06/24 04:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/24 15:59	08/06/24 04:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				08/03/24 15:59	08/06/24 04:04	1
o-Terphenyl	142	S1+	70 - 130				08/03/24 15:59	08/06/24 04:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.2		4.96		mg/Kg			08/07/24 21:34	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6975-1
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)
890-6975-1	CS37	103	97
890-6975-2	CS38	109	98
LCS 880-87470/1-A	Lab Control Sample	106	101
LCSD 880-87470/2-A	Lab Control Sample Dup	103	98
MB 880-87470/5-A	Method Blank	107	92
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)
890-6975-1	CS37	144 S1+	167 S1+
890-6975-1	CS37	142 S1+	156 S1+
890-6975-2	CS38	115	142 S1+
LCS 880-87446/2-A	Lab Control Sample	125	135 S1+
LCSD 880-87446/3-A	Lab Control Sample Dup	129	149 S1+
MB 880-87446/1-A	Method Blank	141 S1+	172 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6975-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-87470/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 87457							Prep Batch: 87470		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 11:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 11:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 09:23	08/05/24 11:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 11:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 09:23	08/05/24 11:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/05/24 09:23	08/05/24 11:34	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/05/24 09:23	08/05/24 11:34	1

Lab Sample ID: LCS 880-87470/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 87457							Prep Batch: 87470		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.1067		mg/Kg		107	70 - 130		
Toluene	0.100	0.09724		mg/Kg		97	70 - 130		
Ethylbenzene	0.100	0.1012		mg/Kg		101	70 - 130		
m-Xylene & p-Xylene	0.200	0.2126		mg/Kg		106	70 - 130		
o-Xylene	0.100	0.1051		mg/Kg		105	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	106		70 - 130						
1,4-Difluorobenzene (Surr)	101		70 - 130						

Lab Sample ID: LCSD 880-87470/2-A					Client Sample ID: Lab Control Sample Dup						
Matrix: Solid					Prep Type: Total/NA						
Analysis Batch: 87457					Prep Batch: 87470						
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	Limit		
							Limits				
Benzene	0.100	0.1046		mg/Kg		105	70 - 130	2	35		
Toluene	0.100	0.09521		mg/Kg		95	70 - 130	2	35		
Ethylbenzene	0.100	0.09822		mg/Kg		98	70 - 130	3	35		
m-Xylene & p-Xylene	0.200	0.2056		mg/Kg		103	70 - 130	3	35		
o-Xylene	0.100	0.1022		mg/Kg		102	70 - 130	3	35		
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	103		70 - 130								
1,4-Difluorobenzene (Surr)	98		70 - 130								

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6975-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-87446/1-A							Client Sample ID: Method Blank			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 87450							Prep Batch: 87446			
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		08/03/24 15:59	08/05/24 19:55	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/24 15:59	08/05/24 19:55	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/24 15:59	08/05/24 19:55	1	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	141	S1+	70 - 130				08/03/24 15:59	08/05/24 19:55	1	
o-Terphenyl	172	S1+	70 - 130				08/03/24 15:59	08/05/24 19:55	1	

Lab Sample ID: LCS 880-87446/2-A							Client Sample ID: Lab Control Sample			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 87450							Prep Batch: 87446			
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10		1000	1190		mg/Kg		119	70 - 130		
Diesel Range Organics (Over C10-C28)		1000	1036		mg/Kg		104	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits							
1-Chlorooctane	125		70 - 130							
o-Terphenyl	135	S1+	70 - 130							

Lab Sample ID: LCSD 880-87446/3-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 87450							Prep Batch: 87446			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10		1000	1123		mg/Kg		112	70 - 130	6	20
Diesel Range Organics (Over C10-C28)		1000	1069		mg/Kg		107	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
1-Chlorooctane	129		70 - 130							
o-Terphenyl	149	S1+	70 - 130							

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87658/1-A							Client Sample ID: Method Blank			
Matrix: Solid							Prep Type: Soluble			
Analysis Batch: 87682										
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00		mg/Kg			08/07/24 18:45	1	

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6975-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-87658/2-A				Client Sample ID: Lab Control Sample						
Matrix: Solid				Prep Type: Soluble						
Analysis Batch: 87682										
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	250	246.6		mg/Kg		99	90 - 110			

Lab Sample ID: LCSD 880-87658/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Solid				Prep Type: Soluble						
Analysis Batch: 87682										
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	250	246.8		mg/Kg		99	90 - 110	0	20	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6975-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 87457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6975-1	CS37	Total/NA	Solid	8021B	87470
890-6975-2	CS38	Total/NA	Solid	8021B	87470
MB 880-87470/5-A	Method Blank	Total/NA	Solid	8021B	87470
LCS 880-87470/1-A	Lab Control Sample	Total/NA	Solid	8021B	87470
LCSD 880-87470/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87470

Prep Batch: 87470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6975-1	CS37	Total/NA	Solid	5035	
890-6975-2	CS38	Total/NA	Solid	5035	
MB 880-87470/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87470/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87470/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 87643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6975-1	CS37	Total/NA	Solid	Total BTEX	
890-6975-2	CS38	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6975-1	CS37	Total/NA	Solid	8015NM Prep	
890-6975-1	CS37	Total/NA	Solid	8015NM Prep	
890-6975-2	CS38	Total/NA	Solid	8015NM Prep	
MB 880-87446/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87446/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87446/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6975-1	CS37	Total/NA	Solid	8015B NM	87446
890-6975-1	CS37	Total/NA	Solid	8015B NM	87446
890-6975-2	CS38	Total/NA	Solid	8015B NM	87446
MB 880-87446/1-A	Method Blank	Total/NA	Solid	8015B NM	87446
LCS 880-87446/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87446
LCSD 880-87446/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87446

Analysis Batch: 87663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6975-1	CS37	Total/NA	Solid	8015 NM	
890-6975-2	CS38	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 87658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6975-1	CS37	Soluble	Solid	DI Leach	
890-6975-2	CS38	Soluble	Solid	DI Leach	
MB 880-87658/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87658/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6975-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 87658 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-87658/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 87682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6975-1	CS37	Soluble	Solid	300.0	87658
890-6975-2	CS38	Soluble	Solid	300.0	87658
MB 880-87658/1-A	Method Blank	Soluble	Solid	300.0	87658
LCS 880-87658/2-A	Lab Control Sample	Soluble	Solid	300.0	87658
LCSD 880-87658/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87658

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6975-1
SDG: Lea County, NM

Client Sample ID: CS37

Lab Sample ID: 890-6975-1

Date Collected: 08/02/24 14:10

Matrix: Solid

Date Received: 08/02/24 16:35

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	87470	08/05/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87457	08/05/24 16:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87643	08/05/24 16:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			87663	08/06/24 03:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/06/24 03:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/06/24 04:24	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87658	08/06/24 14:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87682	08/07/24 21:28	CH	EET MID

Client Sample ID: CS38

Lab Sample ID: 890-6975-2

Date Collected: 08/02/24 14:15

Matrix: Solid

Date Received: 08/02/24 16:35

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	87470	08/05/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87457	08/05/24 17:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87643	08/05/24 17:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			87663	08/06/24 04:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87446	08/03/24 15:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87450	08/06/24 04:04	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	87658	08/06/24 14:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87682	08/07/24 21:34	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: The Contest CTB

Job ID: 890-6975-1
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: The Contest CTB

Job ID: 890-6975-1
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: The Contest CTB

Job ID: 890-6975-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6975-1	CS37	Solid	08/02/24 14:10	08/02/24 16:35	6'
890-6975-2	CS38	Solid	08/02/24 14:15	08/02/24 16:35	6'

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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-6975-1

SDG Number: Lea County, NM

Login Number: 6975

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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: 890-6975-1
SDG Number: Lea County, NM

Login Number: 6975
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 08/03/24 09:49 AM

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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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 8/13/2024 8:22:34 AM Revision 1

JOB DESCRIPTION

The Contest CTB
Lea County, NM

JOB NUMBER

890-6976-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



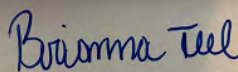
Eurofins Carlsbad

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



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

Generated
8/13/2024 8:22:34 AM
Revision 1

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Laboratory Job ID: 890-6976-1
SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

1

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3

4

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12

13

14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6976-1
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
F1	MS and/or MSD recovery 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.
α	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: The Contest CTB

Job ID: 890-6976-1

Job ID: 890-6976-1

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**Job Narrative
890-6976-1**

REVISION

The report being provided is a revision of the original report sent on 8/8/2024. The report (revision 1) is being revised due to Per client email to change sample depth to 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 8/2/2024 4:41 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 3.2°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 matrix spike duplicate (MSD) recoveries for preparation batch 880-87468 and analytical batch 880-87517 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-87517 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour limit, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-87517/58).

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: The Contest CTB

Job ID: 890-6976-1
SDG: Lea County, NM

Client Sample ID: CS39

Lab Sample ID: 890-6976-1

Date Collected: 08/02/24 14:20

Matrix: Solid

Date Received: 08/02/24 16:41

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		08/05/24 09:23	08/05/24 17:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 17:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 17:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 09:23	08/05/24 17:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 17:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 09:23	08/05/24 17:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/05/24 09:23	08/05/24 17:37	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/05/24 09:23	08/05/24 17:37	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			08/05/24 17:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/05/24 22:50	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		08/05/24 09:23	08/05/24 22:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U F1	49.8		mg/Kg		08/05/24 09:23	08/05/24 22:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/05/24 09:23	08/05/24 22:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	08/05/24 09:23	08/05/24 22:50	1
o-Terphenyl	87		70 - 130	08/05/24 09:23	08/05/24 22:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.8		5.02		mg/Kg			08/07/24 21:40	1

Client Sample ID: CS40

Lab Sample ID: 890-6976-2

Date Collected: 08/02/24 14:25

Matrix: Solid

Date Received: 08/02/24 16:41

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		08/05/24 09:23	08/05/24 17:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/05/24 09:23	08/05/24 17:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/05/24 09:23	08/05/24 17:57	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/05/24 09:23	08/05/24 17:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/05/24 09:23	08/05/24 17:57	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/05/24 09:23	08/05/24 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/05/24 09:23	08/05/24 17:57	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6976-1
SDG: Lea County, NM

Client Sample ID: CS40

Lab Sample ID: 890-6976-2

Date Collected: 08/02/24 14:25

Matrix: Solid

Date Received: 08/02/24 16:41

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	08/05/24 09:23	08/05/24 17:57	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			08/05/24 17:57	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			08/05/24 23:39	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		08/05/24 09:23	08/05/24 23:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/05/24 09:23	08/05/24 23:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/05/24 09:23	08/05/24 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				08/05/24 09:23	08/05/24 23:39	1
o-Terphenyl	96		70 - 130				08/05/24 09:23	08/05/24 23:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.8		5.01		mg/Kg			08/07/24 21:46	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6976-1
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	DFBZ1
		(70-130)	(70-130)
880-46842-A-1-A MS	Matrix Spike	107	100
880-46842-A-1-B MSD	Matrix Spike Duplicate	104	100
890-6976-1	CS39	116	93
890-6976-2	CS40	107	97
LCS 880-87470/1-A	Lab Control Sample	106	101
LCSD 880-87470/2-A	Lab Control Sample Dup	103	98
MB 880-87470/5-A	Method Blank	107	92

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	OTPH1
		(70-130)	(70-130)
890-6976-1	CS39	99	87
890-6976-1 MS	CS39	98	89
890-6976-1 MSD	CS39	100	91
890-6976-2	CS40	110	96
LCS 880-87468/2-A	Lab Control Sample	95	88
LCSD 880-87468/3-A	Lab Control Sample Dup	99	92
MB 880-87468/1-A	Method Blank	88	76

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6976-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-87470/5-A

Matrix: Solid

Analysis Batch: 87457

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87470

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 11:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 11:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/24 09:23	08/05/24 11:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/24 09:23	08/05/24 11:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/24 09:23	08/05/24 11:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/05/24 09:23	08/05/24 11:34	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/05/24 09:23	08/05/24 11:34	1

Lab Sample ID: LCS 880-87470/1-A

Matrix: Solid

Analysis Batch: 87457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87470

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1067		mg/Kg		107	70 - 130
Toluene	0.100	0.09724		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.1012		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2126		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1051		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-87470/2-A

Matrix: Solid

Analysis Batch: 87457

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87470

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1046		mg/Kg		105	70 - 130	2	35
Toluene	0.100	0.09521		mg/Kg		95	70 - 130	2	35
Ethylbenzene	0.100	0.09822		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2056		mg/Kg		103	70 - 130	3	35
o-Xylene	0.100	0.1022		mg/Kg		102	70 - 130	3	35

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

Lab Sample ID: 880-46842-A-1-A MS

Matrix: Solid

Analysis Batch: 87457

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 87470

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.1071		mg/Kg		107	70 - 130
Toluene	<0.00202	U	0.100	0.09569		mg/Kg		96	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6976-1
SDG: Lea County, NM

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

Lab Sample ID: 880-46842-A-1-A MS
Matrix: Solid
Analysis Batch: 87457

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 87470

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.09860		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.2065		mg/Kg		103	70 - 130
o-Xylene	<0.00202	U	0.100	0.1026		mg/Kg		103	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	107		70 - 130						
1,4-Difluorobenzene (Surr)	100		70 - 130						

Lab Sample ID: 880-46842-A-1-B MSD
Matrix: Solid
Analysis Batch: 87457

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 87470

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.1095		mg/Kg		109	70 - 130	2	35
Toluene	<0.00202	U	0.100	0.09789		mg/Kg		98	70 - 130	2	35
Ethylbenzene	<0.00202	U	0.100	0.09892		mg/Kg		99	70 - 130	0	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.2049		mg/Kg		102	70 - 130	1	35
o-Xylene	<0.00202	U	0.100	0.1013		mg/Kg		101	70 - 130	1	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	104		70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130								

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

Lab Sample ID: MB 880-87468/1-A
Matrix: Solid
Analysis Batch: 87517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87468

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		08/05/24 09:22	08/05/24 22:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/05/24 09:22	08/05/24 22:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/05/24 09:22	08/05/24 22:00	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	88		70 - 130						
o-Terphenyl	76		70 - 130						

Lab Sample ID: LCS 880-87468/2-A
Matrix: Solid
Analysis Batch: 87517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87468

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1026		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	861.9		mg/Kg		86	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6976-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-87468/2-A

Matrix: Solid

Analysis Batch: 87517

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87468

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: LCSD 880-87468/3-A

Matrix: Solid

Analysis Batch: 87517

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87468

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1049		mg/Kg		105	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	897.5		mg/Kg		90	70 - 130	4	20
Surrogate		LCSD	LCSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	99		70 - 130								
o-Terphenyl	92		70 - 130								

Lab Sample ID: 890-6976-1 MS

Matrix: Solid

Analysis Batch: 87517

Client Sample ID: CS39

Prep Type: Total/NA

Prep Batch: 87468

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	998	769.1		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U F1	998	707.4		mg/Kg		71	70 - 130		
Surrogate		MS	MS								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	98		70 - 130								
o-Terphenyl	89		70 - 130								

Lab Sample ID: 890-6976-1 MSD

Matrix: Solid

Analysis Batch: 87517

Client Sample ID: CS39

Prep Type: Total/NA

Prep Batch: 87468

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	998	789.5		mg/Kg		79	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	998	682.3	F1	mg/Kg		68	70 - 130	4	20
Surrogate		MSD	MSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	100		70 - 130								
o-Terphenyl	91		70 - 130								

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6976-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87658/1-A

Matrix: Solid

Analysis Batch: 87682

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/07/24 18:45	1

Lab Sample ID: LCS 880-87658/2-A

Matrix: Solid

Analysis Batch: 87682

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.6		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-87658/3-A

Matrix: Solid

Analysis Batch: 87682

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	246.8		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-46897-A-1-C MS

Matrix: Solid

Analysis Batch: 87682

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	57.0		248	304.1		mg/Kg		100	90 - 110

Lab Sample ID: 880-46897-A-1-D MSD

Matrix: Solid

Analysis Batch: 87682

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	57.0		248	304.0		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6976-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 87457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6976-1	CS39	Total/NA	Solid	8021B	87470
890-6976-2	CS40	Total/NA	Solid	8021B	87470
MB 880-87470/5-A	Method Blank	Total/NA	Solid	8021B	87470
LCS 880-87470/1-A	Lab Control Sample	Total/NA	Solid	8021B	87470
LCSD 880-87470/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87470
880-46842-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	87470
880-46842-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	87470

Prep Batch: 87470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6976-1	CS39	Total/NA	Solid	5035	
890-6976-2	CS40	Total/NA	Solid	5035	
MB 880-87470/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87470/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87470/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-46842-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-46842-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 87644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6976-1	CS39	Total/NA	Solid	Total BTEX	
890-6976-2	CS40	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6976-1	CS39	Total/NA	Solid	8015NM Prep	
890-6976-2	CS40	Total/NA	Solid	8015NM Prep	
MB 880-87468/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87468/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87468/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6976-1 MS	CS39	Total/NA	Solid	8015NM Prep	
890-6976-1 MSD	CS39	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6976-1	CS39	Total/NA	Solid	8015B NM	87468
890-6976-2	CS40	Total/NA	Solid	8015B NM	87468
MB 880-87468/1-A	Method Blank	Total/NA	Solid	8015B NM	87468
LCS 880-87468/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87468
LCSD 880-87468/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87468
890-6976-1 MS	CS39	Total/NA	Solid	8015B NM	87468
890-6976-1 MSD	CS39	Total/NA	Solid	8015B NM	87468

Analysis Batch: 87623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6976-1	CS39	Total/NA	Solid	8015 NM	
890-6976-2	CS40	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6976-1
SDG: Lea County, NM

HPLC/IC

Leach Batch: 87658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6976-1	CS39	Soluble	Solid	DI Leach	
890-6976-2	CS40	Soluble	Solid	DI Leach	
MB 880-87658/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87658/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87658/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-46897-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-46897-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 87682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6976-1	CS39	Soluble	Solid	300.0	87658
890-6976-2	CS40	Soluble	Solid	300.0	87658
MB 880-87658/1-A	Method Blank	Soluble	Solid	300.0	87658
LCS 880-87658/2-A	Lab Control Sample	Soluble	Solid	300.0	87658
LCSD 880-87658/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87658
880-46897-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	87658
880-46897-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	87658

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6976-1
SDG: Lea County, NM

Client Sample ID: CS39
Date Collected: 08/02/24 14:20
Date Received: 08/02/24 16:41

Lab Sample ID: 890-6976-1
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			5.00 g	5 mL	87470	08/05/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87457	08/05/24 17:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87644	08/05/24 17:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			87623	08/05/24 22:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87468	08/05/24 09:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87517	08/05/24 22:50	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87658	08/06/24 14:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87682	08/07/24 21:40	CH	EET MID

Client Sample ID: CS40
Date Collected: 08/02/24 14:25
Date Received: 08/02/24 16:41

Lab Sample ID: 890-6976-2
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			4.95 g	5 mL	87470	08/05/24 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	87457	08/05/24 17:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			87644	08/05/24 17:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			87623	08/05/24 23:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	87468	08/05/24 09:23	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87517	08/05/24 23:39	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	87658	08/06/24 14:13	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87682	08/07/24 21:46	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: The Contest CTB

Job ID: 890-6976-1
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: The Contest CTB

Job ID: 890-6976-1
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: The Contest CTB

Job ID: 890-6976-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6976-1	CS39	Solid	08/02/24 14:20	08/02/24 16:41	1'
890-6976-2	CS40	Solid	08/02/24 14:25	08/02/24 16:41	1'

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Work Order Comments			
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐			
State of Project:			
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐			
Deliverables: EDD ☐ ADaPT ☐ Other:			

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0 			2		
3			4		
5			6		

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-6976-1

SDG Number: Lea County, NM

Login Number: 6976

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: 890-6976-1

SDG Number: Lea County, NM

Login Number: 6976**List Number: 2****Creator: Kramer, Jessica****List Source: Eurofins Midland****List Creation: 08/03/24 09:49 AM**

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.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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 8/14/2024 12:43:20 PM

JOB DESCRIPTION

The Contest CTB
Lea County, NM

JOB NUMBER

890-6988-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



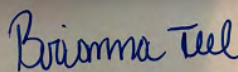
Eurofins Carlsbad

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
8/14/2024 12:43:20 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: The Contest CTB

Laboratory Job ID: 890-6988-1
SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	15
Lab Chronicle	17
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6988-1
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
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: The Contest CTB

Job ID: 890-6988-1

Job ID: 890-6988-1

Eurofins Carlsbad

Job Narrative 890-6988-1

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 8/7/2024 1:51 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW10 (890-6988-1), SW11 (890-6988-2), SW12 (890-6988-3), SW13 (890-6988-4), SW14 (890-6988-5) and SW15 (890-6988-6).

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 samples were outside control limits: SW11 (890-6988-2), SW12 (890-6988-3), SW13 (890-6988-4), SW14 (890-6988-5), SW15 (890-6988-6) and (890-6987-A-79-A). 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

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: The Contest CTB

Job ID: 890-6988-1
SDG: Lea County, NM

Client Sample ID: SW10

Lab Sample ID: 890-6988-1

Date Collected: 08/07/24 08:30

Matrix: Solid

Date Received: 08/07/24 13:51

Sample Depth: 0 - 4'

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		08/08/24 14:29	08/13/24 14:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/24 14:29	08/13/24 14:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/24 14:29	08/13/24 14:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/24 14:29	08/13/24 14:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/24 14:29	08/13/24 14:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/24 14:29	08/13/24 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	08/08/24 14:29	08/13/24 14:17	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/08/24 14:29	08/13/24 14:17	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			08/13/24 14:17	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			08/08/24 23:39	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		08/07/24 16:36	08/08/24 23:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/07/24 16:36	08/08/24 23:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/24 16:36	08/08/24 23:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	08/07/24 16:36	08/08/24 23:39	1
o-Terphenyl	115		70 - 130	08/07/24 16:36	08/08/24 23:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.09		4.95		mg/Kg			08/09/24 16:12	1

Client Sample ID: SW11

Lab Sample ID: 890-6988-2

Date Collected: 08/07/24 08:35

Matrix: Solid

Date Received: 08/07/24 13:51

Sample Depth: 0 - 4'

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		08/08/24 14:29	08/13/24 14:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:29	08/13/24 14:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:29	08/13/24 14:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/24 14:29	08/13/24 14:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:29	08/13/24 14:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/24 14:29	08/13/24 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/08/24 14:29	08/13/24 14:38	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6988-1
SDG: Lea County, NM

Client Sample ID: SW11

Lab Sample ID: 890-6988-2

Date Collected: 08/07/24 08:35

Matrix: Solid

Date Received: 08/07/24 13:51

Sample Depth: 0 - 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	08/08/24 14:29	08/13/24 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			08/13/24 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	<49.9	U	49.9		mg/Kg			08/09/24 00:00	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	<49.9	U	49.9		mg/Kg		08/07/24 16:36	08/09/24 00:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/07/24 16:36	08/09/24 00:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/07/24 16:36	08/09/24 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				08/07/24 16:36	08/09/24 00:00	1
o-Terphenyl	136	S1+	70 - 130				08/07/24 16:36	08/09/24 00:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.0		5.05		mg/Kg			08/09/24 16:18	1

Client Sample ID: SW12

Lab Sample ID: 890-6988-3

Date Collected: 08/07/24 08:40

Matrix: Solid

Date Received: 08/07/24 13:51

Sample Depth: 0 - 4'

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		08/08/24 14:29	08/13/24 14:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/24 14:29	08/13/24 14:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/24 14:29	08/13/24 14:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/24 14:29	08/13/24 14:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/24 14:29	08/13/24 14:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/24 14:29	08/13/24 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/08/24 14:29	08/13/24 14:58	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/08/24 14:29	08/13/24 14:58	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			08/13/24 14:58	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			08/09/24 00:41	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6988-1
SDG: Lea County, NM

Client Sample ID: SW12

Lab Sample ID: 890-6988-3

Date Collected: 08/07/24 08:40

Matrix: Solid

Date Received: 08/07/24 13:51

Sample Depth: 0 - 4'

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		08/07/24 16:36	08/09/24 00:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/07/24 16:36	08/09/24 00:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/07/24 16:36	08/09/24 00:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				08/07/24 16:36	08/09/24 00:41	1
o-Terphenyl	138	S1+	70 - 130				08/07/24 16:36	08/09/24 00:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.6		5.04		mg/Kg			08/09/24 16:24	1

Client Sample ID: SW13

Lab Sample ID: 890-6988-4

Date Collected: 08/07/24 08:45

Matrix: Solid

Date Received: 08/07/24 13:51

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		08/08/24 14:29	08/13/24 16:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/24 14:29	08/13/24 16:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/24 14:29	08/13/24 16:33	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/24 14:29	08/13/24 16:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/24 14:29	08/13/24 16:33	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/24 14:29	08/13/24 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/08/24 14:29	08/13/24 16:33	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/08/24 14:29	08/13/24 16:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/13/24 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	<49.8	U	49.8		mg/Kg			08/09/24 01:01	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		08/07/24 16:36	08/09/24 01:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/07/24 16:36	08/09/24 01:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/07/24 16:36	08/09/24 01:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				08/07/24 16:36	08/09/24 01:01	1
o-Terphenyl	146	S1+	70 - 130				08/07/24 16:36	08/09/24 01:01	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6988-1
SDG: Lea County, NM

Client Sample ID: SW13

Lab Sample ID: 890-6988-4

Date Collected: 08/07/24 08:45

Matrix: Solid

Date Received: 08/07/24 13:51

Sample Depth: 0 - 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.0		4.99		mg/Kg			08/09/24 16:30	1

Client Sample ID: SW14

Lab Sample ID: 890-6988-5

Date Collected: 08/07/24 08:50

Matrix: Solid

Date Received: 08/07/24 13:51

Sample Depth: 0 - 4'

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		08/08/24 14:29	08/13/24 16:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:29	08/13/24 16:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:29	08/13/24 16:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/24 14:29	08/13/24 16:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:29	08/13/24 16:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/24 14:29	08/13/24 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/08/24 14:29	08/13/24 16:53	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/08/24 14:29	08/13/24 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			08/13/24 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	<49.8	U	49.8		mg/Kg			08/09/24 01:21	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		08/07/24 16:36	08/09/24 01:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/07/24 16:36	08/09/24 01:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/07/24 16:36	08/09/24 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130				08/07/24 16:36	08/09/24 01:21	1
o-Terphenyl	149	S1+	70 - 130				08/07/24 16:36	08/09/24 01:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			08/09/24 16:36	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6988-1
SDG: Lea County, NM

Client Sample ID: SW15

Lab Sample ID: 890-6988-6

Date Collected: 08/07/24 08:55

Matrix: Solid

Date Received: 08/07/24 13:51

Sample Depth: 0 - 4'

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		08/08/24 15:00	08/13/24 17:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 15:00	08/13/24 17:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 15:00	08/13/24 17:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/24 15:00	08/13/24 17:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/24 15:00	08/13/24 17:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/24 15:00	08/13/24 17:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/08/24 15:00	08/13/24 17:14	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/08/24 15:00	08/13/24 17:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/13/24 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			08/09/24 01:42	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		08/07/24 16:36	08/09/24 01:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/07/24 16:36	08/09/24 01:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/24 16:36	08/09/24 01:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130				08/07/24 16:36	08/09/24 01:42	1
o-Terphenyl	151	S1+	70 - 130				08/07/24 16:36	08/09/24 01:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.57		4.96		mg/Kg			08/09/24 16:42	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6988-1
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)
890-6988-1	SW10	106	96
890-6988-2	SW11	108	96
890-6988-3	SW12	107	96
890-6988-4	SW13	113	96
890-6988-5	SW14	106	97
890-6988-6	SW15	107	96
LCS 880-87925/1-A	Lab Control Sample	104	98
LCSD 880-87925/2-A	Lab Control Sample Dup	103	98
MB 880-87925/5-A	Method Blank	108	91
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)
890-6988-1	SW10	107	115
890-6988-2	SW11	121	136 S1+
890-6988-3	SW12	130	138 S1+
890-6988-4	SW13	134 S1+	146 S1+
890-6988-5	SW14	142 S1+	149 S1+
890-6988-6	SW15	143 S1+	151 S1+
LCS 880-87800/2-A	Lab Control Sample	117	117
LCSD 880-87800/3-A	Lab Control Sample Dup	111	111
MB 880-87800/1-A	Method Blank	83	85
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6988-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-87925/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88255							Prep Batch: 87925		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:29	08/13/24 11:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:29	08/13/24 11:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:29	08/13/24 11:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/24 14:29	08/13/24 11:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:29	08/13/24 11:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/24 14:29	08/13/24 11:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				08/08/24 14:29	08/13/24 11:32	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/08/24 14:29	08/13/24 11:32	1

Lab Sample ID: LCS 880-87925/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88255							Prep Batch: 87925		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.09107		mg/Kg		91	70 - 130		
Toluene	0.100	0.08216		mg/Kg		82	70 - 130		
Ethylbenzene	0.100	0.08486		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene	0.200	0.1795		mg/Kg		90	70 - 130		
o-Xylene	0.100	0.09017		mg/Kg		90	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	104		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: LCSD 880-87925/2-A					Client Sample ID: Lab Control Sample Dup						
Matrix: Solid					Prep Type: Total/NA						
Analysis Batch: 88255					Prep Batch: 87925						
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	RPD Limit		
							Limits				
Benzene	0.100	0.1005		mg/Kg		100	70 - 130	10	35		
Toluene	0.100	0.08988		mg/Kg		90	70 - 130	9	35		
Ethylbenzene	0.100	0.09251		mg/Kg		93	70 - 130	9	35		
m-Xylene & p-Xylene	0.200	0.1955		mg/Kg		98	70 - 130	9	35		
o-Xylene	0.100	0.09780		mg/Kg		98	70 - 130	8	35		
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	103		70 - 130								
1,4-Difluorobenzene (Surr)	98		70 - 130								

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6988-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-87800/1-A
Matrix: Solid
Analysis Batch: 87812

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87800

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		08/07/24 16:36	08/08/24 19:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/07/24 16:36	08/08/24 19:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/24 16:36	08/08/24 19:12	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				08/07/24 16:36	08/08/24 19:12	1
o-Terphenyl	85		70 - 130				08/07/24 16:36	08/08/24 19:12	1

Lab Sample ID: LCS 880-87800/2-A
Matrix: Solid
Analysis Batch: 87812

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	968.2		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	975.4		mg/Kg		98	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	117		70 - 130				
o-Terphenyl	117		70 - 130				

Lab Sample ID: LCSD 880-87800/3-A
Matrix: Solid
Analysis Batch: 87812

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87800

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	943.1		mg/Kg		94	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	976.0		mg/Kg		98	70 - 130	0	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	111		70 - 130						
o-Terphenyl	111		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87862/1-A
Matrix: Solid
Analysis Batch: 87936

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/09/24 10:15	1

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6988-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-87862/2-A

Matrix: Solid

Analysis Batch: 87936

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.4		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-87862/3-A

Matrix: Solid

Analysis Batch: 87936

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	254.5		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6988-1
SDG: Lea County, NM

GC VOA

Prep Batch: 87925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6988-1	SW10	Total/NA	Solid	5035	
890-6988-2	SW11	Total/NA	Solid	5035	
890-6988-3	SW12	Total/NA	Solid	5035	
890-6988-4	SW13	Total/NA	Solid	5035	
890-6988-5	SW14	Total/NA	Solid	5035	
890-6988-6	SW15	Total/NA	Solid	5035	
MB 880-87925/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87925/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87925/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 88255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6988-1	SW10	Total/NA	Solid	8021B	87925
890-6988-2	SW11	Total/NA	Solid	8021B	87925
890-6988-3	SW12	Total/NA	Solid	8021B	87925
890-6988-4	SW13	Total/NA	Solid	8021B	87925
890-6988-5	SW14	Total/NA	Solid	8021B	87925
890-6988-6	SW15	Total/NA	Solid	8021B	87925
MB 880-87925/5-A	Method Blank	Total/NA	Solid	8021B	87925
LCS 880-87925/1-A	Lab Control Sample	Total/NA	Solid	8021B	87925
LCSD 880-87925/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87925

Analysis Batch: 88421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6988-1	SW10	Total/NA	Solid	Total BTEX	
890-6988-2	SW11	Total/NA	Solid	Total BTEX	
890-6988-3	SW12	Total/NA	Solid	Total BTEX	
890-6988-4	SW13	Total/NA	Solid	Total BTEX	
890-6988-5	SW14	Total/NA	Solid	Total BTEX	
890-6988-6	SW15	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6988-1	SW10	Total/NA	Solid	8015NM Prep	
890-6988-2	SW11	Total/NA	Solid	8015NM Prep	
890-6988-3	SW12	Total/NA	Solid	8015NM Prep	
890-6988-4	SW13	Total/NA	Solid	8015NM Prep	
890-6988-5	SW14	Total/NA	Solid	8015NM Prep	
890-6988-6	SW15	Total/NA	Solid	8015NM Prep	
MB 880-87800/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87800/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87800/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6988-1	SW10	Total/NA	Solid	8015B NM	87800
890-6988-2	SW11	Total/NA	Solid	8015B NM	87800
890-6988-3	SW12	Total/NA	Solid	8015B NM	87800
890-6988-4	SW13	Total/NA	Solid	8015B NM	87800

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6988-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 87812 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6988-5	SW14	Total/NA	Solid	8015B NM	87800
890-6988-6	SW15	Total/NA	Solid	8015B NM	87800
MB 880-87800/1-A	Method Blank	Total/NA	Solid	8015B NM	87800
LCS 880-87800/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87800
LCSD 880-87800/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87800

Analysis Batch: 88125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6988-1	SW10	Total/NA	Solid	8015 NM	
890-6988-2	SW11	Total/NA	Solid	8015 NM	
890-6988-3	SW12	Total/NA	Solid	8015 NM	
890-6988-4	SW13	Total/NA	Solid	8015 NM	
890-6988-5	SW14	Total/NA	Solid	8015 NM	
890-6988-6	SW15	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 87862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6988-1	SW10	Soluble	Solid	DI Leach	
890-6988-2	SW11	Soluble	Solid	DI Leach	
890-6988-3	SW12	Soluble	Solid	DI Leach	
890-6988-4	SW13	Soluble	Solid	DI Leach	
890-6988-5	SW14	Soluble	Solid	DI Leach	
890-6988-6	SW15	Soluble	Solid	DI Leach	
MB 880-87862/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87862/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87862/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 87936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6988-1	SW10	Soluble	Solid	300.0	87862
890-6988-2	SW11	Soluble	Solid	300.0	87862
890-6988-3	SW12	Soluble	Solid	300.0	87862
890-6988-4	SW13	Soluble	Solid	300.0	87862
890-6988-5	SW14	Soluble	Solid	300.0	87862
890-6988-6	SW15	Soluble	Solid	300.0	87862
MB 880-87862/1-A	Method Blank	Soluble	Solid	300.0	87862
LCS 880-87862/2-A	Lab Control Sample	Soluble	Solid	300.0	87862
LCSD 880-87862/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87862

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6988-1
SDG: Lea County, NM

Client Sample ID: SW10

Date Collected: 08/07/24 08:30

Date Received: 08/07/24 13:51

Lab Sample ID: 890-6988-1

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	87925	08/08/24 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88255	08/13/24 14:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			88421	08/13/24 14:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			88125	08/08/24 23:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	87800	08/07/24 16:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87812	08/08/24 23:39	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	87862	08/08/24 10:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87936	08/09/24 16:12	CH	EET MID

Client Sample ID: SW11

Date Collected: 08/07/24 08:35

Date Received: 08/07/24 13:51

Lab Sample ID: 890-6988-2

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			5.01 g	5 mL	87925	08/08/24 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88255	08/13/24 14:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			88421	08/13/24 14:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			88125	08/09/24 00:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87800	08/07/24 16:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87812	08/09/24 00:00	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	87862	08/08/24 10:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87936	08/09/24 16:18	CH	EET MID

Client Sample ID: SW12

Date Collected: 08/07/24 08:40

Date Received: 08/07/24 13:51

Lab Sample ID: 890-6988-3

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			5.03 g	5 mL	87925	08/08/24 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88255	08/13/24 14:58	SM	EET MID
Total/NA	Analysis	Total BTEX		1			88421	08/13/24 14:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			88125	08/09/24 00:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87800	08/07/24 16:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87812	08/09/24 00:41	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	87862	08/08/24 10:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87936	08/09/24 16:24	CH	EET MID

Client Sample ID: SW13

Date Collected: 08/07/24 08:45

Date Received: 08/07/24 13:51

Lab Sample ID: 890-6988-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	87925	08/08/24 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88255	08/13/24 16:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			88421	08/13/24 16:33	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6988-1
SDG: Lea County, NM

Client Sample ID: SW13

Lab Sample ID: 890-6988-4

Date Collected: 08/07/24 08:45

Matrix: Solid

Date Received: 08/07/24 13:51

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			88125	08/09/24 01:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87800	08/07/24 16:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87812	08/09/24 01:01	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	87862	08/08/24 10:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87936	08/09/24 16:30	CH	EET MID

Client Sample ID: SW14

Lab Sample ID: 890-6988-5

Date Collected: 08/07/24 08:50

Matrix: Solid

Date Received: 08/07/24 13:51

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	87925	08/08/24 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88255	08/13/24 16:53	SM	EET MID
Total/NA	Analysis	Total BTEX		1			88421	08/13/24 16:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			88125	08/09/24 01:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87800	08/07/24 16:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87812	08/09/24 01:21	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87862	08/08/24 10:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87936	08/09/24 16:36	CH	EET MID

Client Sample ID: SW15

Lab Sample ID: 890-6988-6

Date Collected: 08/07/24 08:55

Matrix: Solid

Date Received: 08/07/24 13:51

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	87925	08/08/24 15:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88255	08/13/24 17:14	SM	EET MID
Total/NA	Analysis	Total BTEX		1			88421	08/13/24 17:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			88125	08/09/24 01:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	87800	08/07/24 16:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87812	08/09/24 01:42	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	87862	08/08/24 10:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87936	08/09/24 16:42	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: The Contest CTB

Job ID: 890-6988-1
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: The Contest CTB

Job ID: 890-6988-1
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: The Contest CTB

Job ID: 890-6988-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6988-1	SW10	Solid	08/07/24 08:30	08/07/24 13:51	0 - 4'
890-6988-2	SW11	Solid	08/07/24 08:35	08/07/24 13:51	0 - 4'
890-6988-3	SW12	Solid	08/07/24 08:40	08/07/24 13:51	0 - 4'
890-6988-4	SW13	Solid	08/07/24 08:45	08/07/24 13:51	0 - 4'
890-6988-5	SW14	Solid	08/07/24 08:50	08/07/24 13:51	0 - 4'
890-6988-6	SW15	Solid	08/07/24 08:55	08/07/24 13:51	0 - 4'

- 1
- 2
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- 14



Environment Testing

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)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
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: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐			
State of Project:			
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐			
Deliverables: EDD ☐ ADaPT ☐ Other:			

Project Name:		The Contest CTB		Turn Around		Pres. Code	ANALYSIS REQUEST										Preservative Codes											
Project Number:		2288		☒ Routine ☐ Rush													None: NO	DI Water: H ₂ O										
Project Location:		Lea County, NM		Due Date:			5 day TAT										Cool: Cool	MeOH: Me										
Sampler's Name:		Gilbert Moreno		TAT starts the day received by the lab, if received by 4:30pm			 890-6988 Chain of Custody										HCL: HC	HNO ₃ : HN										
PO #:																	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 Intact:		☒ Yes ☐ No		Thermometer ID:													NaHSO ₄ : NABIS											
Cooler Custody Seals:		☒ Yes ☐ No ☒ N/A		Correction Factor:																							Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:		☒ Yes ☐ No ☒ N/A		Temperature Reading:																							Zn Acetate+NaOH: Zn	
Total Containers:				Corrected Temperature:																								

[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	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
0			8/17/13 49 ²			
3						
5						

Revised Date: 08/25/2020 Rev. 2020.2

Page 22 of 24

Released to Imaging: 11/14/2024 2:00:34 PM

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-6988-1

SDG Number: Lea County, NM

Login Number: 6988

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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: 890-6988-1

SDG Number: Lea County, NM

Login Number: 6988

List Source: Eurofins Midland

List Number: 2

List Creation: 08/07/24 10:00 PM

Creator: Laing, Edmundo

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



Environment Testing

- 1
- 2
- 3
- 4
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- 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/14/2024 12:49:18 PM

JOB DESCRIPTION

The Contest CTB
Lea County, NM

JOB NUMBER

890-6989-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



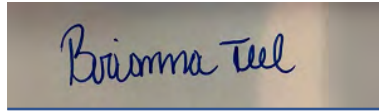
Eurofins Carlsbad

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
8/14/2024 12:49:18 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: The Contest CTB

Laboratory Job ID: 890-6989-1
SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	18
QC Sample Results	20
QC Association Summary	27
Lab Chronicle	32
Certification Summary	37
Method Summary	38
Sample Summary	39
Chain of Custody	40
Receipt Checklists	42

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high 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, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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: The Contest CTB

Job ID: 890-6989-1

Job ID: 890-6989-1

Eurofins Carlsbad

Job Narrative 890-6989-1

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 8/7/2024 1:49 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS 41 (890-6989-1), CS 42 (890-6989-2), CS 43 (890-6989-3), CS 44 (890-6989-4), CS 45 (890-6989-5), CS46 (890-6989-6), CS 47 (890-6989-7), CS 48 (890-6989-8), CS 49 (890-6989-9), CS 50 (890-6989-10), CS 51 (890-6989-11), CS 52 (890-6989-12), CS 53 (890-6989-13), CS 54 (890-6989-14) and CS 55 (890-6989-15).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-87924 and analytical batch 880-88135 was outside the upper control limits.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-87924 and analytical batch 880-88135 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.

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 41 (890-6989-1), CS 42 (890-6989-2), CS 43 (890-6989-3), CS 44 (890-6989-4), CS 45 (890-6989-5), CS46 (890-6989-6) and (890-6987-A-79-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: CS 53 (890-6989-13). Percent recoveries are based on the amount spiked.

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-87872 and analytical batch 880-87957 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Client Sample ID: CS 41

Lab Sample ID: 890-6989-1

Date Collected: 08/07/24 09:00

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 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		08/08/24 14:25	08/12/24 12:44	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/24 14:25	08/12/24 12:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/24 14:25	08/12/24 12:44	1
m-Xylene & p-Xylene	<0.00404	U **	0.00404		mg/Kg		08/08/24 14:25	08/12/24 12:44	1
o-Xylene	<0.00202	U **	0.00202		mg/Kg		08/08/24 14:25	08/12/24 12:44	1
Xylenes, Total	<0.00404	U **	0.00404		mg/Kg		08/08/24 14:25	08/12/24 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	08/08/24 14:25	08/12/24 12:44	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/08/24 14:25	08/12/24 12:44	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			08/12/24 12:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/09/24 02:02	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	<49.8	U	49.8		mg/Kg		08/07/24 16:36	08/09/24 02:02	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/07/24 16:36	08/09/24 02:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/07/24 16:36	08/09/24 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130	08/07/24 16:36	08/09/24 02:02	1
o-Terphenyl	165	S1+	70 - 130	08/07/24 16:36	08/09/24 02:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02		mg/Kg			08/09/24 16:48	1

Client Sample ID: CS 42

Lab Sample ID: 890-6989-2

Date Collected: 08/07/24 09:10

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 4'

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		08/08/24 14:25	08/12/24 13:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/24 14:25	08/12/24 13:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/24 14:25	08/12/24 13:05	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		08/08/24 14:25	08/12/24 13:05	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		08/08/24 14:25	08/12/24 13:05	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		08/08/24 14:25	08/12/24 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/08/24 14:25	08/12/24 13:05	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Client Sample ID: CS 42

Lab Sample ID: 890-6989-2

Date Collected: 08/07/24 09:10

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	119		70 - 130	08/08/24 14:25	08/12/24 13:05	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			08/12/24 13:05	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			08/09/24 02:22	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	<49.9	U	49.9		mg/Kg		08/07/24 16:36	08/09/24 02:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/07/24 16:36	08/09/24 02:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/07/24 16:36	08/09/24 02:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				08/07/24 16:36	08/09/24 02:22	1
o-Terphenyl	147	S1+	70 - 130				08/07/24 16:36	08/09/24 02:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.51		5.02		mg/Kg			08/09/24 19:31	1

Client Sample ID: CS 43

Lab Sample ID: 890-6989-3

Date Collected: 08/07/24 09:20

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 4'

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		08/08/24 14:25	08/12/24 13:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:25	08/12/24 13:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:25	08/12/24 13:25	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399		mg/Kg		08/08/24 14:25	08/12/24 13:25	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		08/08/24 14:25	08/12/24 13:25	1
Xylenes, Total	<0.00399	U **	0.00399		mg/Kg		08/08/24 14:25	08/12/24 13:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/08/24 14:25	08/12/24 13:25	1
1,4-Difluorobenzene (Surr)	114		70 - 130	08/08/24 14:25	08/12/24 13:25	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			08/12/24 13:25	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			08/09/24 02:43	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Client Sample ID: CS 43

Lab Sample ID: 890-6989-3

Date Collected: 08/07/24 09:20

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 4'

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		08/07/24 16:36	08/09/24 02:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/07/24 16:36	08/09/24 02:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/24 16:36	08/09/24 02:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	159	S1+	70 - 130				08/07/24 16:36	08/09/24 02:43	1
o-Terphenyl	172	S1+	70 - 130				08/07/24 16:36	08/09/24 02:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			08/09/24 19:50	1

Client Sample ID: CS 44

Lab Sample ID: 890-6989-4

Date Collected: 08/07/24 09:30

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 4'

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		08/08/24 14:25	08/12/24 13:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/24 14:25	08/12/24 13:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/24 14:25	08/12/24 13:46	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		08/08/24 14:25	08/12/24 13:46	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		08/08/24 14:25	08/12/24 13:46	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		08/08/24 14:25	08/12/24 13:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				08/08/24 14:25	08/12/24 13:46	1
1,4-Difluorobenzene (Surr)	109		70 - 130				08/08/24 14:25	08/12/24 13:46	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			08/12/24 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/09/24 03:03	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	<49.7	U	49.7		mg/Kg		08/07/24 16:36	08/09/24 03:03	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/07/24 16:36	08/09/24 03:03	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/07/24 16:36	08/09/24 03:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130				08/07/24 16:36	08/09/24 03:03	1
o-Terphenyl	160	S1+	70 - 130				08/07/24 16:36	08/09/24 03:03	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Client Sample ID: CS 44

Lab Sample ID: 890-6989-4

Date Collected: 08/07/24 09:30

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.1		4.97		mg/Kg			08/09/24 19:56	1

Client Sample ID: CS 45

Lab Sample ID: 890-6989-5

Date Collected: 08/07/24 09:40

Matrix: Solid

Date Received: 08/07/24 13:49

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		08/08/24 14:25	08/12/24 14:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/24 14:25	08/12/24 14:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/24 14:25	08/12/24 14:06	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		08/08/24 14:25	08/12/24 14:06	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		08/08/24 14:25	08/12/24 14:06	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		08/08/24 14:25	08/12/24 14:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/08/24 14:25	08/12/24 14:06	1
1,4-Difluorobenzene (Surr)	111		70 - 130				08/08/24 14:25	08/12/24 14:06	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			08/12/24 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/09/24 03:23	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		08/07/24 16:36	08/09/24 03:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/07/24 16:36	08/09/24 03:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/07/24 16:36	08/09/24 03:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				08/07/24 16:36	08/09/24 03:23	1
o-Terphenyl	131	S1+	70 - 130				08/07/24 16:36	08/09/24 03:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.98		4.98		mg/Kg			08/09/24 20:02	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Client Sample ID: CS46

Lab Sample ID: 890-6989-6

Date Collected: 08/07/24 09:50

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 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		08/08/24 14:25	08/12/24 14:27	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/24 14:25	08/12/24 14:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/24 14:25	08/12/24 14:27	1
m-Xylene & p-Xylene	<0.00404	U **	0.00404		mg/Kg		08/08/24 14:25	08/12/24 14:27	1
o-Xylene	<0.00202	U **	0.00202		mg/Kg		08/08/24 14:25	08/12/24 14:27	1
Xylenes, Total	<0.00404	U **	0.00404		mg/Kg		08/08/24 14:25	08/12/24 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/08/24 14:25	08/12/24 14:27	1
1,4-Difluorobenzene (Surr)	110		70 - 130	08/08/24 14:25	08/12/24 14:27	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			08/12/24 14:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/09/24 03:44	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		08/07/24 16:36	08/09/24 03:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/07/24 16:36	08/09/24 03:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/07/24 16:36	08/09/24 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	08/07/24 16:36	08/09/24 03:44	1
o-Terphenyl	152	S1+	70 - 130	08/07/24 16:36	08/09/24 03:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			08/09/24 20:08	1

Client Sample ID: CS 47

Lab Sample ID: 890-6989-7

Date Collected: 08/07/24 10:00

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 4'

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		08/08/24 14:25	08/12/24 14:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/24 14:25	08/12/24 14:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/24 14:25	08/12/24 14:48	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		08/08/24 14:25	08/12/24 14:48	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		08/08/24 14:25	08/12/24 14:48	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		08/08/24 14:25	08/12/24 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	08/08/24 14:25	08/12/24 14:48	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Client Sample ID: CS 47

Lab Sample ID: 890-6989-7

Date Collected: 08/07/24 10:00

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	109		70 - 130	08/08/24 14:25	08/12/24 14:48	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			08/12/24 14:48	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			08/12/24 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	<50.0	U	50.0		mg/Kg		08/07/24 16:39	08/12/24 18:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/07/24 16:39	08/12/24 18:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/24 16:39	08/12/24 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				08/07/24 16:39	08/12/24 18:11	1
o-Terphenyl	97		70 - 130				08/07/24 16:39	08/12/24 18:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.10		4.95		mg/Kg			08/09/24 20:14	1

Client Sample ID: CS 48

Lab Sample ID: 890-6989-8

Date Collected: 08/07/24 10:10

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 4'

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		08/08/24 14:25	08/12/24 15:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:25	08/12/24 15:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:25	08/12/24 15:08	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		08/08/24 14:25	08/12/24 15:08	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		08/08/24 14:25	08/12/24 15:08	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		08/08/24 14:25	08/12/24 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/08/24 14:25	08/12/24 15:08	1
1,4-Difluorobenzene (Surr)	109		70 - 130				08/08/24 14:25	08/12/24 15:08	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			08/12/24 15:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/12/24 19:00	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Client Sample ID: CS 48

Lab Sample ID: 890-6989-8

Date Collected: 08/07/24 10:10

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 4'

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		08/07/24 16:39	08/12/24 19:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/07/24 16:39	08/12/24 19:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/07/24 16:39	08/12/24 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				08/07/24 16:39	08/12/24 19:00	1
o-Terphenyl	90		70 - 130				08/07/24 16:39	08/12/24 19:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.3	F1	5.05		mg/Kg			08/09/24 20:20	1

Client Sample ID: CS 49

Lab Sample ID: 890-6989-9

Date Collected: 08/07/24 10:20

Matrix: Solid

Date Received: 08/07/24 13:49

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		08/08/24 14:25	08/12/24 15:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:25	08/12/24 15:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:25	08/12/24 15:29	1
m-Xylene & p-Xylene	<0.00400	U **	0.00400		mg/Kg		08/08/24 14:25	08/12/24 15:29	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		08/08/24 14:25	08/12/24 15:29	1
Xylenes, Total	<0.00400	U **	0.00400		mg/Kg		08/08/24 14:25	08/12/24 15:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				08/08/24 14:25	08/12/24 15:29	1
1,4-Difluorobenzene (Surr)	116		70 - 130				08/08/24 14:25	08/12/24 15:29	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			08/12/24 15:29	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			08/12/24 19:15	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	<50.0	U	50.0		mg/Kg		08/07/24 16:39	08/12/24 19:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/07/24 16:39	08/12/24 19:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/24 16:39	08/12/24 19:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				08/07/24 16:39	08/12/24 19:15	1
o-Terphenyl	89		70 - 130				08/07/24 16:39	08/12/24 19:15	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Client Sample ID: CS 49

Lab Sample ID: 890-6989-9

Date Collected: 08/07/24 10:20

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			08/09/24 20:38	1

Client Sample ID: CS 50

Lab Sample ID: 890-6989-10

Date Collected: 08/07/24 10:30

Matrix: Solid

Date Received: 08/07/24 13:49

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		08/08/24 14:25	08/12/24 15:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/24 14:25	08/12/24 15:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/24 14:25	08/12/24 15:49	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		08/08/24 14:25	08/12/24 15:49	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		08/08/24 14:25	08/12/24 15:49	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		08/08/24 14:25	08/12/24 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				08/08/24 14:25	08/12/24 15:49	1
1,4-Difluorobenzene (Surr)	110		70 - 130				08/08/24 14:25	08/12/24 15:49	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			08/12/24 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/12/24 19:31	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	<49.8	U	49.8		mg/Kg		08/07/24 16:39	08/12/24 19:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/07/24 16:39	08/12/24 19:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/07/24 16:39	08/12/24 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				08/07/24 16:39	08/12/24 19:31	1
o-Terphenyl	96		70 - 130				08/07/24 16:39	08/12/24 19:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.48		5.01		mg/Kg			08/09/24 20:44	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Client Sample ID: CS 51

Lab Sample ID: 890-6989-11

Date Collected: 08/07/24 10:40

Matrix: Solid

Date Received: 08/07/24 13:49

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		08/10/24 14:25	08/12/24 18:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/10/24 14:25	08/12/24 18:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/10/24 14:25	08/12/24 18:22	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398		mg/Kg		08/10/24 14:25	08/12/24 18:22	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		08/10/24 14:25	08/12/24 18:22	1
Xylenes, Total	<0.00398	U **	0.00398		mg/Kg		08/10/24 14:25	08/12/24 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/10/24 14:25	08/12/24 18:22	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/10/24 14:25	08/12/24 18:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/12/24 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/12/24 19:46	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	<49.7	U	49.7		mg/Kg		08/07/24 16:39	08/12/24 19:46	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/07/24 16:39	08/12/24 19:46	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/07/24 16:39	08/12/24 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	08/07/24 16:39	08/12/24 19:46	1
o-Terphenyl	109		70 - 130	08/07/24 16:39	08/12/24 19:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.67		4.96		mg/Kg			08/09/24 21:02	1

Client Sample ID: CS 52

Lab Sample ID: 890-6989-12

Date Collected: 08/07/24 10:50

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 4'

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		08/13/24 09:43	08/13/24 13:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/13/24 09:43	08/13/24 13:36	1
Ethylbenzene	0.00216		0.00201		mg/Kg		08/13/24 09:43	08/13/24 13:36	1
m-Xylene & p-Xylene	0.178		0.00402		mg/Kg		08/13/24 09:43	08/13/24 13:36	1
o-Xylene	0.269		0.00201		mg/Kg		08/13/24 09:43	08/13/24 13:36	1
Xylenes, Total	0.447		0.00402		mg/Kg		08/13/24 09:43	08/13/24 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/13/24 09:43	08/13/24 13:36	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Client Sample ID: CS 52

Lab Sample ID: 890-6989-12

Date Collected: 08/07/24 10:50

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	08/13/24 09:43	08/13/24 13:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.449		0.00402		mg/Kg			08/13/24 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	<49.8	U	49.8		mg/Kg			08/13/24 21:03	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	<49.8	U	49.8		mg/Kg		08/12/24 08:30	08/13/24 21:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/12/24 08:30	08/13/24 21:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/12/24 08:30	08/13/24 21:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				08/12/24 08:30	08/13/24 21:03	1
o-Terphenyl	130		70 - 130				08/12/24 08:30	08/13/24 21:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			08/09/24 21:08	1

Client Sample ID: CS 53

Lab Sample ID: 890-6989-13

Date Collected: 08/07/24 11:00

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 4'

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		08/13/24 09:43	08/13/24 13:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/13/24 09:43	08/13/24 13:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/13/24 09:43	08/13/24 13:57	1
m-Xylene & p-Xylene	0.00513		0.00398		mg/Kg		08/13/24 09:43	08/13/24 13:57	1
o-Xylene	0.00393		0.00199		mg/Kg		08/13/24 09:43	08/13/24 13:57	1
Xylenes, Total	0.00906		0.00398		mg/Kg		08/13/24 09:43	08/13/24 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	08/13/24 09:43	08/13/24 13:57	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/13/24 09:43	08/13/24 13:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00906		0.00398		mg/Kg			08/13/24 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	<49.8	U	49.8		mg/Kg			08/12/24 20:18	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Client Sample ID: CS 53

Lab Sample ID: 890-6989-13

Date Collected: 08/07/24 11:00

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 4'

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		08/07/24 16:39	08/12/24 20:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/07/24 16:39	08/12/24 20:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/07/24 16:39	08/12/24 20:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	169	S1+	70 - 130				08/07/24 16:39	08/12/24 20:18	1
o-Terphenyl	186	S1+	70 - 130				08/07/24 16:39	08/12/24 20:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			08/09/24 21:14	1

Client Sample ID: CS 54

Lab Sample ID: 890-6989-14

Date Collected: 08/07/24 11:10

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 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		08/08/24 14:25	08/12/24 18:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/24 14:25	08/12/24 18:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/24 14:25	08/12/24 18:42	1
m-Xylene & p-Xylene	<0.00404	U **	0.00404		mg/Kg		08/08/24 14:25	08/12/24 18:42	1
o-Xylene	<0.00202	U **	0.00202		mg/Kg		08/08/24 14:25	08/12/24 18:42	1
Xylenes, Total	<0.00404	U **	0.00404		mg/Kg		08/08/24 14:25	08/12/24 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/08/24 14:25	08/12/24 18:42	1
1,4-Difluorobenzene (Surr)	107		70 - 130				08/08/24 14:25	08/12/24 18:42	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			08/12/24 18:42	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			08/12/24 20:33	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	<49.8	U	49.8		mg/Kg		08/07/24 16:39	08/12/24 20:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/07/24 16:39	08/12/24 20:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/07/24 16:39	08/12/24 20:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				08/07/24 16:39	08/12/24 20:33	1
o-Terphenyl	121		70 - 130				08/07/24 16:39	08/12/24 20:33	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Client Sample ID: CS 54

Lab Sample ID: 890-6989-14

Date Collected: 08/07/24 11:10

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			08/09/24 21:20	1

Client Sample ID: CS 55

Lab Sample ID: 890-6989-15

Date Collected: 08/07/24 11:20

Matrix: Solid

Date Received: 08/07/24 13:49

Sample Depth: 4'

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		08/08/24 14:25	08/12/24 19:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:25	08/12/24 19:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:25	08/12/24 19:03	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399		mg/Kg		08/08/24 14:25	08/12/24 19:03	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		08/08/24 14:25	08/12/24 19:03	1
Xylenes, Total	<0.00399	U **	0.00399		mg/Kg		08/08/24 14:25	08/12/24 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/08/24 14:25	08/12/24 19:03	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/08/24 14:25	08/12/24 19:03	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			08/12/24 19:03	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			08/12/24 20:49	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	<49.7	U	49.7		mg/Kg		08/07/24 16:39	08/12/24 20:49	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/07/24 16:39	08/12/24 20:49	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/07/24 16:39	08/12/24 20:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/07/24 16:39	08/12/24 20:49	1
o-Terphenyl	110		70 - 130				08/07/24 16:39	08/12/24 20:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			08/09/24 21:26	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
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)
890-6989-1	CS 41	80	101
890-6989-1 MS	CS 41	96	107
890-6989-1 MSD	CS 41	103	100
890-6989-2	CS 42	105	119
890-6989-3	CS 43	110	114
890-6989-4	CS 44	101	109
890-6989-5	CS 45	109	111
890-6989-6	CS46	105	110
890-6989-7	CS 47	119	109
890-6989-8	CS 48	106	109
890-6989-9	CS 49	112	116
890-6989-10	CS 50	108	110
890-6989-11	CS 51	117	98
890-6989-12	CS 52	113	104
890-6989-13	CS 53	122	103
890-6989-14	CS 54	104	107
890-6989-15	CS 55	103	99
LCS 880-87924/1-A	Lab Control Sample	108	107
LCS 880-87925/1-A	Lab Control Sample	104	98
LCSD 880-87924/2-A	Lab Control Sample Dup	97	103
LCSD 880-87925/2-A	Lab Control Sample Dup	103	98
MB 880-87924/5-A	Method Blank	183 S1+	146 S1+
MB 880-87925/5-A	Method Blank	108	91
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)
890-6989-1	CS 41	148 S1+	165 S1+
890-6989-2	CS 42	134 S1+	147 S1+
890-6989-3	CS 43	159 S1+	172 S1+
890-6989-4	CS 44	142 S1+	160 S1+
890-6989-5	CS 45	125	131 S1+
890-6989-6	CS46	139 S1+	152 S1+
890-6989-7	CS 47	88	97
890-6989-7 MS	CS 47	91	92
890-6989-7 MSD	CS 47	97	96
890-6989-8	CS 48	81	90
890-6989-9	CS 49	82	89
890-6989-10	CS 50	86	96
890-6989-11	CS 51	99	109
890-6989-12	CS 52	126	130
890-6989-13	CS 53	169 S1+	186 S1+
890-6989-14	CS 54	112	121

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
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)
890-6989-15	CS 55	99	110
LCS 880-87800/2-A	Lab Control Sample	117	117
LCS 880-87801/2-A	Lab Control Sample	86	83
LCS 880-88142/2-A	Lab Control Sample	111	126
LCSD 880-87800/3-A	Lab Control Sample Dup	111	111
LCSD 880-87801/3-A	Lab Control Sample Dup	86	83
LCSD 880-88142/3-A	Lab Control Sample Dup	108	120
MB 880-87800/1-A	Method Blank	83	85
MB 880-87801/1-A	Method Blank	74	89
MB 880-88142/1-A	Method Blank	120	110
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-87924/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88135							Prep Batch: 87924		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:25	08/12/24 12:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:25	08/12/24 12:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:25	08/12/24 12:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/24 14:25	08/12/24 12:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:25	08/12/24 12:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/24 14:25	08/12/24 12:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	183	S1+	70 - 130				08/08/24 14:25	08/12/24 12:15	1
1,4-Difluorobenzene (Surr)	146	S1+	70 - 130				08/08/24 14:25	08/12/24 12:15	1

Lab Sample ID: LCS 880-87924/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88135							Prep Batch: 87924		
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.1261		mg/Kg		126	70 - 130
Toluene			0.100	0.1133		mg/Kg		113	70 - 130
Ethylbenzene			0.100	0.1148		mg/Kg		115	70 - 130
m-Xylene & p-Xylene			0.200	0.2666	*+	mg/Kg		133	70 - 130
o-Xylene			0.100	0.1496	*+	mg/Kg		150	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		70 - 130						
1,4-Difluorobenzene (Surr)	107		70 - 130						

Lab Sample ID: LCSD 880-87924/2-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 88135						Prep Batch: 87924					
Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier			Limits	Limits	Limits	
Benzene			0.100	0.1117		mg/Kg		112	70 - 130	12	35
Toluene			0.100	0.1084		mg/Kg		108	70 - 130	4	35
Ethylbenzene			0.100	0.09931		mg/Kg		99	70 - 130	14	35
m-Xylene & p-Xylene			0.200	0.2185		mg/Kg		109	70 - 130	20	35
o-Xylene			0.100	0.1240		mg/Kg		124	70 - 130	19	35
Surrogate		LCSD	LCSD								
		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)		97		70 - 130							
1,4-Difluorobenzene (Surr)		103		70 - 130							

Lab Sample ID: 890-6989-1 MS							Client Sample ID: CS 41		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88135							Prep Batch: 87924		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.1059		mg/Kg		106	70 - 130
Toluene	<0.00202	U	0.100	0.09855		mg/Kg		99	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

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

Lab Sample ID: 890-6989-1 MS
Matrix: Solid
Analysis Batch: 88135

Client Sample ID: CS 41
Prep Type: Total/NA
Prep Batch: 87924

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.07130		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00404	U *	0.200	0.1967		mg/Kg		98	70 - 130
o-Xylene	<0.00202	U *	0.100	0.1174		mg/Kg		117	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	96		70 - 130						
1,4-Difluorobenzene (Surr)	107		70 - 130						

Lab Sample ID: 890-6989-1 MSD
Matrix: Solid
Analysis Batch: 88135

Client Sample ID: CS 41
Prep Type: Total/NA
Prep Batch: 87924

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.1044		mg/Kg		104	70 - 130	1	35
Toluene	<0.00202	U	0.100	0.09262		mg/Kg		93	70 - 130	6	35
Ethylbenzene	<0.00202	U	0.100	0.07098		mg/Kg		71	70 - 130	0	35
m-Xylene & p-Xylene	<0.00404	U *	0.200	0.1695		mg/Kg		85	70 - 130	15	35
o-Xylene	<0.00202	U *	0.100	0.1075		mg/Kg		107	70 - 130	9	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	103		70 - 130								
1,4-Difluorobenzene (Surr)	100		70 - 130								

Lab Sample ID: MB 880-87925/5-A
Matrix: Solid
Analysis Batch: 88255

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87925

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:29	08/13/24 11:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:29	08/13/24 11:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:29	08/13/24 11:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/24 14:29	08/13/24 11:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/24 14:29	08/13/24 11:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/24 14:29	08/13/24 11:32	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		70 - 130						
1,4-Difluorobenzene (Surr)	91		70 - 130						

Lab Sample ID: LCS 880-87925/1-A
Matrix: Solid
Analysis Batch: 88255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87925

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09107		mg/Kg		91	70 - 130
Toluene	0.100	0.08216		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.08486		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	0.200	0.1795		mg/Kg		90	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-87925/1-A
Matrix: Solid
Analysis Batch: 88255

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87925

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09017		mg/Kg		90	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	104		70 - 130				
1,4-Difluorobenzene (Surr)	98		70 - 130				

Lab Sample ID: LCSD 880-87925/2-A
Matrix: Solid
Analysis Batch: 88255

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87925

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1005		mg/Kg		100	70 - 130	10	35
Toluene	0.100	0.08988		mg/Kg		90	70 - 130	9	35
Ethylbenzene	0.100	0.09251		mg/Kg		93	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1955		mg/Kg		98	70 - 130	9	35
o-Xylene	0.100	0.09780		mg/Kg		98	70 - 130	8	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	103		70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

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

Lab Sample ID: MB 880-87800/1-A

Matrix: Solid

Analysis Batch: 87812

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87800

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		08/07/24 16:36	08/08/24 19:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/07/24 16:36	08/08/24 19:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/24 16:36	08/08/24 19:12	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				08/07/24 16:36	08/08/24 19:12	1
o-Terphenyl	85		70 - 130				08/07/24 16:36	08/08/24 19:12	1

Lab Sample ID: LCS 880-87800/2-A
Matrix: Solid
Analysis Batch: 87812

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	968.2		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	975.4		mg/Kg		98	70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-87800/2-A
Matrix: Solid
Analysis Batch: 87812

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87800

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: LCSD 880-87800/3-A
Matrix: Solid
Analysis Batch: 87812

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87800

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	943.1		mg/Kg		94	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	976.0		mg/Kg		98	70 - 130	0	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: MB 880-87801/1-A
Matrix: Solid
Analysis Batch: 88174

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87801

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		08/07/24 16:39	08/12/24 12:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/07/24 16:39	08/12/24 12:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/07/24 16:39	08/12/24 12:30	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				08/07/24 16:39	08/12/24 12:30	1
1-Chlorooctane	74		70 - 130				08/07/24 16:39	08/12/24 12:30	1
o-Terphenyl	89		70 - 130				08/07/24 16:39	08/12/24 12:30	1

Lab Sample ID: LCS 880-87801/2-A
Matrix: Solid
Analysis Batch: 88174

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	782.6		mg/Kg		78	70 - 130
Diesel Range Organics (Over C10-C28)	1000	789.5		mg/Kg		79	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	83		70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-87801/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 88174				Prep Batch: 87801							
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	788.9		mg/Kg		79	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	779.3		mg/Kg		78	70 - 130	1	20
LCSD LCSD											
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	86		70 - 130								
o-Terphenyl	83		70 - 130								

Lab Sample ID: 890-6989-7 MS				Client Sample ID: CS 47							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 88174				Prep Batch: 87801							
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	783.3		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	998	792.9		mg/Kg		79	70 - 130		
MS MS											
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	91		70 - 130								
o-Terphenyl	92		70 - 130								

Lab Sample ID: 890-6989-7 MSD				Client Sample ID: CS 47							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 88174				Prep Batch: 87801							
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	<50.0	U	998	833.3		mg/Kg		83	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	858.7		mg/Kg		86	70 - 130	8	20
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	96		70 - 130								

Lab Sample ID: MB 880-88142/1-A				Client Sample ID: Method Blank							
Matrix: Solid				Prep Type: Total/NA							
Analysis Batch: 88292				Prep Batch: 88142							
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		08/12/24 08:30	08/13/24 09:44	1		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/12/24 08:30	08/13/24 09:44	1		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/12/24 08:30	08/13/24 09:44	1		

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-88142/1-A

Matrix: Solid

Analysis Batch: 88292

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 88142

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	08/12/24 08:30	08/13/24 09:44	1
o-Terphenyl	110		70 - 130	08/12/24 08:30	08/13/24 09:44	1

Lab Sample ID: LCS 880-88142/2-A

Matrix: Solid

Analysis Batch: 88292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 88142

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10		1000	1088		mg/Kg		109	70 - 130	
Diesel Range Organics (Over C10-C28)		1000	1138		mg/Kg		114	70 - 130	
Surrogate									
	LCS	LCS							
	%Recovery	Qualifier	Limits						
1-Chlorooctane	111		70 - 130						
o-Terphenyl	126		70 - 130						

Lab Sample ID: LCSD 880-88142/3-A

Matrix: Solid

Analysis Batch: 88292

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 88142

		Spike	LCSD	LCSD				%Rec		RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10		1000	1072		mg/Kg		107	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)		1000	1097		mg/Kg		110	70 - 130	4	20	
Surrogate											
	LCSD	LCSD									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	120		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-87862/1-A

Matrix: Solid

Analysis Batch: 87936

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00		mg/Kg			08/09/24 10:15	1	

Lab Sample ID: LCS 880-87862/2-A

Matrix: Solid

Analysis Batch: 87936

Client Sample ID: Lab Control Sample

Prep Type: Soluble

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		250	254.4		mg/Kg		102	90 - 110	

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-87862/3-A

Matrix: Solid

Analysis Batch: 87936

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	254.5		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-87872/1-A

Matrix: Solid

Analysis Batch: 87957

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/09/24 18:37	1

Lab Sample ID: LCS 880-87872/2-A

Matrix: Solid

Analysis Batch: 87957

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	251.0		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-87872/3-A

Matrix: Solid

Analysis Batch: 87957

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	251.4		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-6989-8 MS

Matrix: Solid

Analysis Batch: 87957

Client Sample ID: CS 48

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	44.3	F1	253	244.9	F1	mg/Kg		79	90 - 110		

Lab Sample ID: 890-6989-8 MSD

Matrix: Solid

Analysis Batch: 87957

Client Sample ID: CS 48

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	44.3	F1	253	244.5	F1	mg/Kg		79	90 - 110	0	20

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

GC VOA

Prep Batch: 87924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-1	CS 41	Total/NA	Solid	5035	
890-6989-2	CS 42	Total/NA	Solid	5035	
890-6989-3	CS 43	Total/NA	Solid	5035	
890-6989-4	CS 44	Total/NA	Solid	5035	
890-6989-5	CS 45	Total/NA	Solid	5035	
890-6989-6	CS46	Total/NA	Solid	5035	
890-6989-7	CS 47	Total/NA	Solid	5035	
890-6989-8	CS 48	Total/NA	Solid	5035	
890-6989-9	CS 49	Total/NA	Solid	5035	
890-6989-10	CS 50	Total/NA	Solid	5035	
890-6989-11	CS 51	Total/NA	Solid	5035	
890-6989-14	CS 54	Total/NA	Solid	5035	
890-6989-15	CS 55	Total/NA	Solid	5035	
MB 880-87924/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87924/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87924/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6989-1 MS	CS 41	Total/NA	Solid	5035	
890-6989-1 MSD	CS 41	Total/NA	Solid	5035	

Prep Batch: 87925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-12	CS 52	Total/NA	Solid	5035	
890-6989-13	CS 53	Total/NA	Solid	5035	
MB 880-87925/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-87925/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-87925/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 88135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-1	CS 41	Total/NA	Solid	8021B	87924
890-6989-2	CS 42	Total/NA	Solid	8021B	87924
890-6989-3	CS 43	Total/NA	Solid	8021B	87924
890-6989-4	CS 44	Total/NA	Solid	8021B	87924
890-6989-5	CS 45	Total/NA	Solid	8021B	87924
890-6989-6	CS46	Total/NA	Solid	8021B	87924
890-6989-7	CS 47	Total/NA	Solid	8021B	87924
890-6989-8	CS 48	Total/NA	Solid	8021B	87924
890-6989-9	CS 49	Total/NA	Solid	8021B	87924
890-6989-10	CS 50	Total/NA	Solid	8021B	87924
890-6989-11	CS 51	Total/NA	Solid	8021B	87924
890-6989-14	CS 54	Total/NA	Solid	8021B	87924
890-6989-15	CS 55	Total/NA	Solid	8021B	87924
MB 880-87924/5-A	Method Blank	Total/NA	Solid	8021B	87924
LCS 880-87924/1-A	Lab Control Sample	Total/NA	Solid	8021B	87924
LCSD 880-87924/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87924
890-6989-1 MS	CS 41	Total/NA	Solid	8021B	87924
890-6989-1 MSD	CS 41	Total/NA	Solid	8021B	87924

Analysis Batch: 88238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-1	CS 41	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

GC VOA (Continued)

Analysis Batch: 88238 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-2	CS 42	Total/NA	Solid	Total BTEX	
890-6989-3	CS 43	Total/NA	Solid	Total BTEX	
890-6989-4	CS 44	Total/NA	Solid	Total BTEX	
890-6989-5	CS 45	Total/NA	Solid	Total BTEX	
890-6989-6	CS46	Total/NA	Solid	Total BTEX	
890-6989-7	CS 47	Total/NA	Solid	Total BTEX	
890-6989-8	CS 48	Total/NA	Solid	Total BTEX	
890-6989-9	CS 49	Total/NA	Solid	Total BTEX	
890-6989-10	CS 50	Total/NA	Solid	Total BTEX	
890-6989-11	CS 51	Total/NA	Solid	Total BTEX	
890-6989-12	CS 52	Total/NA	Solid	Total BTEX	
890-6989-13	CS 53	Total/NA	Solid	Total BTEX	
890-6989-14	CS 54	Total/NA	Solid	Total BTEX	
890-6989-15	CS 55	Total/NA	Solid	Total BTEX	

Analysis Batch: 88255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-12	CS 52	Total/NA	Solid	8021B	87925
890-6989-13	CS 53	Total/NA	Solid	8021B	87925
MB 880-87925/5-A	Method Blank	Total/NA	Solid	8021B	87925
LCS 880-87925/1-A	Lab Control Sample	Total/NA	Solid	8021B	87925
LCSD 880-87925/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	87925

GC Semi VOA

Prep Batch: 87800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-1	CS 41	Total/NA	Solid	8015NM Prep	
890-6989-2	CS 42	Total/NA	Solid	8015NM Prep	
890-6989-3	CS 43	Total/NA	Solid	8015NM Prep	
890-6989-4	CS 44	Total/NA	Solid	8015NM Prep	
890-6989-5	CS 45	Total/NA	Solid	8015NM Prep	
890-6989-6	CS46	Total/NA	Solid	8015NM Prep	
MB 880-87800/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87800/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87800/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 87801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-7	CS 47	Total/NA	Solid	8015NM Prep	
890-6989-8	CS 48	Total/NA	Solid	8015NM Prep	
890-6989-9	CS 49	Total/NA	Solid	8015NM Prep	
890-6989-10	CS 50	Total/NA	Solid	8015NM Prep	
890-6989-11	CS 51	Total/NA	Solid	8015NM Prep	
890-6989-13	CS 53	Total/NA	Solid	8015NM Prep	
890-6989-14	CS 54	Total/NA	Solid	8015NM Prep	
890-6989-15	CS 55	Total/NA	Solid	8015NM Prep	
MB 880-87801/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87801/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87801/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6989-7 MS	CS 47	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 87801 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-7 MSD	CS 47	Total/NA	Solid	8015NM Prep	

Analysis Batch: 87812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-1	CS 41	Total/NA	Solid	8015B NM	87800
890-6989-2	CS 42	Total/NA	Solid	8015B NM	87800
890-6989-3	CS 43	Total/NA	Solid	8015B NM	87800
890-6989-4	CS 44	Total/NA	Solid	8015B NM	87800
890-6989-5	CS 45	Total/NA	Solid	8015B NM	87800
890-6989-6	CS46	Total/NA	Solid	8015B NM	87800
MB 880-87800/1-A	Method Blank	Total/NA	Solid	8015B NM	87800
LCS 880-87800/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87800
LCSD 880-87800/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87800

Analysis Batch: 88126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-1	CS 41	Total/NA	Solid	8015 NM	
890-6989-2	CS 42	Total/NA	Solid	8015 NM	
890-6989-3	CS 43	Total/NA	Solid	8015 NM	
890-6989-4	CS 44	Total/NA	Solid	8015 NM	
890-6989-5	CS 45	Total/NA	Solid	8015 NM	
890-6989-6	CS46	Total/NA	Solid	8015 NM	
890-6989-7	CS 47	Total/NA	Solid	8015 NM	
890-6989-8	CS 48	Total/NA	Solid	8015 NM	
890-6989-9	CS 49	Total/NA	Solid	8015 NM	
890-6989-10	CS 50	Total/NA	Solid	8015 NM	
890-6989-11	CS 51	Total/NA	Solid	8015 NM	
890-6989-12	CS 52	Total/NA	Solid	8015 NM	
890-6989-13	CS 53	Total/NA	Solid	8015 NM	
890-6989-14	CS 54	Total/NA	Solid	8015 NM	
890-6989-15	CS 55	Total/NA	Solid	8015 NM	

Prep Batch: 88142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-12	CS 52	Total/NA	Solid	8015NM Prep	
MB 880-88142/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-88142/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-88142/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 88174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-7	CS 47	Total/NA	Solid	8015B NM	87801
890-6989-8	CS 48	Total/NA	Solid	8015B NM	87801
890-6989-9	CS 49	Total/NA	Solid	8015B NM	87801
890-6989-10	CS 50	Total/NA	Solid	8015B NM	87801
890-6989-11	CS 51	Total/NA	Solid	8015B NM	87801
890-6989-13	CS 53	Total/NA	Solid	8015B NM	87801
890-6989-14	CS 54	Total/NA	Solid	8015B NM	87801
890-6989-15	CS 55	Total/NA	Solid	8015B NM	87801
MB 880-87801/1-A	Method Blank	Total/NA	Solid	8015B NM	87801
LCS 880-87801/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87801

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 88174 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-87801/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87801
890-6989-7 MS	CS 47	Total/NA	Solid	8015B NM	87801
890-6989-7 MSD	CS 47	Total/NA	Solid	8015B NM	87801

Analysis Batch: 88292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-12	CS 52	Total/NA	Solid	8015B NM	88142
MB 880-88142/1-A	Method Blank	Total/NA	Solid	8015B NM	88142
LCS 880-88142/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	88142
LCSD 880-88142/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	88142

HPLC/IC

Leach Batch: 87862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-1	CS 41	Soluble	Solid	DI Leach	
MB 880-87862/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87862/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87862/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 87872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-2	CS 42	Soluble	Solid	DI Leach	
890-6989-3	CS 43	Soluble	Solid	DI Leach	
890-6989-4	CS 44	Soluble	Solid	DI Leach	
890-6989-5	CS 45	Soluble	Solid	DI Leach	
890-6989-6	CS46	Soluble	Solid	DI Leach	
890-6989-7	CS 47	Soluble	Solid	DI Leach	
890-6989-8	CS 48	Soluble	Solid	DI Leach	
890-6989-9	CS 49	Soluble	Solid	DI Leach	
890-6989-10	CS 50	Soluble	Solid	DI Leach	
890-6989-11	CS 51	Soluble	Solid	DI Leach	
890-6989-12	CS 52	Soluble	Solid	DI Leach	
890-6989-13	CS 53	Soluble	Solid	DI Leach	
890-6989-14	CS 54	Soluble	Solid	DI Leach	
890-6989-15	CS 55	Soluble	Solid	DI Leach	
MB 880-87872/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-87872/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-87872/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6989-8 MS	CS 48	Soluble	Solid	DI Leach	
890-6989-8 MSD	CS 48	Soluble	Solid	DI Leach	

Analysis Batch: 87936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-1	CS 41	Soluble	Solid	300.0	87862
MB 880-87862/1-A	Method Blank	Soluble	Solid	300.0	87862
LCS 880-87862/2-A	Lab Control Sample	Soluble	Solid	300.0	87862
LCSD 880-87862/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87862

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

HPLC/IC

Analysis Batch: 87957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6989-2	CS 42	Soluble	Solid	300.0	87872
890-6989-3	CS 43	Soluble	Solid	300.0	87872
890-6989-4	CS 44	Soluble	Solid	300.0	87872
890-6989-5	CS 45	Soluble	Solid	300.0	87872
890-6989-6	CS46	Soluble	Solid	300.0	87872
890-6989-7	CS 47	Soluble	Solid	300.0	87872
890-6989-8	CS 48	Soluble	Solid	300.0	87872
890-6989-9	CS 49	Soluble	Solid	300.0	87872
890-6989-10	CS 50	Soluble	Solid	300.0	87872
890-6989-11	CS 51	Soluble	Solid	300.0	87872
890-6989-12	CS 52	Soluble	Solid	300.0	87872
890-6989-13	CS 53	Soluble	Solid	300.0	87872
890-6989-14	CS 54	Soluble	Solid	300.0	87872
890-6989-15	CS 55	Soluble	Solid	300.0	87872
MB 880-87872/1-A	Method Blank	Soluble	Solid	300.0	87872
LCS 880-87872/2-A	Lab Control Sample	Soluble	Solid	300.0	87872
LCSD 880-87872/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	87872
890-6989-8 MS	CS 48	Soluble	Solid	300.0	87872
890-6989-8 MSD	CS 48	Soluble	Solid	300.0	87872

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Client Sample ID: CS 41

Date Collected: 08/07/24 09:00

Date Received: 08/07/24 13:49

Lab Sample ID: 890-6989-1

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	87924	08/08/24 14:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88135	08/12/24 12:44	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88238	08/12/24 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			88126	08/09/24 02:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87800	08/07/24 16:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87812	08/09/24 02:02	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87862	08/08/24 10:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87936	08/09/24 16:48	CH	EET MID

Client Sample ID: CS 42

Date Collected: 08/07/24 09:10

Date Received: 08/07/24 13:49

Lab Sample ID: 890-6989-2

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	87924	08/08/24 14:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88135	08/12/24 13:05	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88238	08/12/24 13:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			88126	08/09/24 02:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87800	08/07/24 16:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87812	08/09/24 02:22	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	87872	08/08/24 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87957	08/09/24 19:31	CH	EET MID

Client Sample ID: CS 43

Date Collected: 08/07/24 09:20

Date Received: 08/07/24 13:49

Lab Sample ID: 890-6989-3

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			5.01 g	5 mL	87924	08/08/24 14:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88135	08/12/24 13:25	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88238	08/12/24 13:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			88126	08/09/24 02:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87800	08/07/24 16:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87812	08/09/24 02:43	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	87872	08/08/24 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87957	08/09/24 19:50	CH	EET MID

Client Sample ID: CS 44

Date Collected: 08/07/24 09:30

Date Received: 08/07/24 13:49

Lab Sample ID: 890-6989-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	87924	08/08/24 14:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88135	08/12/24 13:46	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88238	08/12/24 13:46	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Client Sample ID: CS 44**Lab Sample ID: 890-6989-4****Date Collected: 08/07/24 09:30****Matrix: Solid****Date Received: 08/07/24 13:49**

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			88126	08/09/24 03:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87800	08/07/24 16:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87812	08/09/24 03:03	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87872	08/08/24 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87957	08/09/24 19:56	CH	EET MID

Client Sample ID: CS 45**Lab Sample ID: 890-6989-5****Date Collected: 08/07/24 09:40****Matrix: Solid****Date Received: 08/07/24 13:49**

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	87924	08/08/24 14:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88135	08/12/24 14:06	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88238	08/12/24 14:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			88126	08/09/24 03:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87800	08/07/24 16:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87812	08/09/24 03:23	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	87872	08/08/24 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87957	08/09/24 20:02	CH	EET MID

Client Sample ID: CS46**Lab Sample ID: 890-6989-6****Date Collected: 08/07/24 09:50****Matrix: Solid****Date Received: 08/07/24 13:49**

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	87924	08/08/24 14:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88135	08/12/24 14:27	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88238	08/12/24 14:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			88126	08/09/24 03:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87800	08/07/24 16:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	87812	08/09/24 03:44	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	87872	08/08/24 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87957	08/09/24 20:08	CH	EET MID

Client Sample ID: CS 47**Lab Sample ID: 890-6989-7****Date Collected: 08/07/24 10:00****Matrix: Solid****Date Received: 08/07/24 13:49**

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	87924	08/08/24 14:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88135	08/12/24 14:48	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88238	08/12/24 14:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			88126	08/12/24 18:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	87801	08/07/24 16:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88174	08/12/24 18:11	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Client Sample ID: CS 47**Lab Sample ID: 890-6989-7****Date Collected: 08/07/24 10:00****Matrix: Solid****Date Received: 08/07/24 13:49**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	87872	08/08/24 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87957	08/09/24 20:14	CH	EET MID

Client Sample ID: CS 48**Lab Sample ID: 890-6989-8****Date Collected: 08/07/24 10:10****Matrix: Solid****Date Received: 08/07/24 13:49**

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	87924	08/08/24 14:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88135	08/12/24 15:08	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88238	08/12/24 15:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			88126	08/12/24 19:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87801	08/07/24 16:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88174	08/12/24 19:00	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	87872	08/08/24 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87957	08/09/24 20:20	CH	EET MID

Client Sample ID: CS 49**Lab Sample ID: 890-6989-9****Date Collected: 08/07/24 10:20****Matrix: Solid****Date Received: 08/07/24 13:49**

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	87924	08/08/24 14:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88135	08/12/24 15:29	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88238	08/12/24 15:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			88126	08/12/24 19:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87801	08/07/24 16:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88174	08/12/24 19:15	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87872	08/08/24 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87957	08/09/24 20:38	CH	EET MID

Client Sample ID: CS 50**Lab Sample ID: 890-6989-10****Date Collected: 08/07/24 10:30****Matrix: Solid****Date Received: 08/07/24 13:49**

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	87924	08/08/24 14:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88135	08/12/24 15:49	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88238	08/12/24 15:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			88126	08/12/24 19:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87801	08/07/24 16:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88174	08/12/24 19:31	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	87872	08/08/24 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87957	08/09/24 20:44	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Client Sample ID: CS 51

Date Collected: 08/07/24 10:40

Date Received: 08/07/24 13:49

Lab Sample ID: 890-6989-11

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	87924	08/10/24 14:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88135	08/12/24 18:22	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88238	08/12/24 18:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			88126	08/12/24 19:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	87801	08/07/24 16:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88174	08/12/24 19:46	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	87872	08/08/24 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87957	08/09/24 21:02	CH	EET MID

Client Sample ID: CS 52

Date Collected: 08/07/24 10:50

Date Received: 08/07/24 13:49

Lab Sample ID: 890-6989-12

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	87925	08/13/24 09:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88255	08/13/24 13:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			88238	08/13/24 13:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			88126	08/13/24 21:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	88142	08/12/24 08:30	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88292	08/13/24 21:03	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	87872	08/08/24 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87957	08/09/24 21:08	CH	EET MID

Client Sample ID: CS 53

Date Collected: 08/07/24 11:00

Date Received: 08/07/24 13:49

Lab Sample ID: 890-6989-13

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	87925	08/13/24 09:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88255	08/13/24 13:57	SM	EET MID
Total/NA	Analysis	Total BTEX		1			88238	08/13/24 13:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			88126	08/12/24 20:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87801	08/07/24 16:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88174	08/12/24 20:18	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	87872	08/08/24 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87957	08/09/24 21:14	CH	EET MID

Client Sample ID: CS 54

Date Collected: 08/07/24 11:10

Date Received: 08/07/24 13:49

Lab Sample ID: 890-6989-14

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	87924	08/08/24 14:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88135	08/12/24 18:42	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88238	08/12/24 18:42	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Client Sample ID: CS 54
Date Collected: 08/07/24 11:10
Date Received: 08/07/24 13:49

Lab Sample ID: 890-6989-14
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			88126	08/12/24 20:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87801	08/07/24 16:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88174	08/12/24 20:33	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	87872	08/08/24 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87957	08/09/24 21:20	CH	EET MID

Client Sample ID: CS 55
Date Collected: 08/07/24 11:20
Date Received: 08/07/24 13:49

Lab Sample ID: 890-6989-15
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			5.01 g	5 mL	87924	08/08/24 14:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88135	08/12/24 19:03	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88238	08/12/24 19:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			88126	08/12/24 20:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	87801	08/07/24 16:39	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88174	08/12/24 20:49	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	87872	08/08/24 11:08	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	87957	08/09/24 21:26	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: The Contest CTB

Job ID: 890-6989-1
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: The Contest CTB

Job ID: 890-6989-1
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: The Contest CTB

Job ID: 890-6989-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6989-1	CS 41	Solid	08/07/24 09:00	08/07/24 13:49	4'
890-6989-2	CS 42	Solid	08/07/24 09:10	08/07/24 13:49	4'
890-6989-3	CS 43	Solid	08/07/24 09:20	08/07/24 13:49	4'
890-6989-4	CS 44	Solid	08/07/24 09:30	08/07/24 13:49	4'
890-6989-5	CS 45	Solid	08/07/24 09:40	08/07/24 13:49	1'
890-6989-6	CS46	Solid	08/07/24 09:50	08/07/24 13:49	4'
890-6989-7	CS 47	Solid	08/07/24 10:00	08/07/24 13:49	4'
890-6989-8	CS 48	Solid	08/07/24 10:10	08/07/24 13:49	4'
890-6989-9	CS 49	Solid	08/07/24 10:20	08/07/24 13:49	1'
890-6989-10	CS 50	Solid	08/07/24 10:30	08/07/24 13:49	2'
890-6989-11	CS 51	Solid	08/07/24 10:40	08/07/24 13:49	2'
890-6989-12	CS 52	Solid	08/07/24 10:50	08/07/24 13:49	4'
890-6989-13	CS 53	Solid	08/07/24 11:00	08/07/24 13:49	4'
890-6989-14	CS 54	Solid	08/07/24 11:10	08/07/24 13:49	4'
890-6989-15	CS 55	Solid	08/07/24 11:20	08/07/24 13:49	4'





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 2

Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
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: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

Project Name:		The Contest CTB		Turn Around		ANALYSIS REQUEST										Preservative Codes						
Project Number:		2288		☒ Routine ☐ Rush		Pres. Code												None: NO DI Water: H ₂ O				
Project Location:		Lea County, NM		Due Date:		5 day TAT		Parameters		 890-6989 Chain of Custody										Cool: Cool MeOH: Me		
Sampler's Name:		Gilbert Moreno		TAT starts the day received by the lab, if received by 4:30pm		HCL: HC HNO ₃ : HN																
PO #:						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 Intact:		Yes No		Thermometer ID:		T-1000														NaHSO ₄ : NABIS		
Cooler Custody Seals:		Yes No N/A		Correction Factor:		-0.2														Na ₂ S ₂ O ₃ : NaSO ₃		
Sample Custody Seals:		Yes No N/A		Temperature Reading:		1.8														Zn Acetate+NaOH: Zn		
Total Containers:				Corrected Temperature:		1.6														NaOH+Ascorbic Acid: SAPC		
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH	Chloride	BTEX											Sample Comments	
CS41		S	8/7/2024	9:00	4'	C	1	X	X	X											Incident Number	
CS42		S	8/7/2024	9:10	4'	C	1	X	X	X											nAPP2327037534	
CS43		S	8/7/2024	9:20	4'	C	1	X	X	X												
CS44		S	8/7/2024	9:30	4'	C	1	X	X	X												
CS45		S	8/7/2024	9:40	1'	C	1	X	X	X												
CS46		S	8/7/2024	9:50	4'	C	1	X	X	X												
CS47		S	8/7/2024	10:00	4'	C	1	X	X	X												
CS48		S	8/7/2024	10:10	4'	C	1	X	X	X												
CS49		S	8/7/2024	10:20	1'	C	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	
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
0		8/7 1349	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2



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 2 of 2

Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
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: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

Project Name:		The Contest CTB		Turn Around		ANALYSIS REQUEST										Preservative Codes						
Project Number:		2288		☒ Routine ☐ Rush												None: NO DI Water: H ₂ O						
Project Location:		Lea County, NM		Due Date:		5 day TAT												Cool: Cool MeOH: Me				
Sampler's Name:		Gilbert Moreno		TAT starts the day received by the lab, if received by 4:30pm												HCL: HC HNO ₃ : HN						
PO #:																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 Intact: Yes No		Thermometer ID:														NaHSO ₄ : NABIS						
Cooler Custody Seals: Yes No N/A		Correction Factor:														Na ₂ S ₂ O ₃ : NaSO ₃						
Sample Custody Seals: Yes No N/A		Temperature Reading:														Zn Acetate+NaOH: Zn						
Total Containers:		Corrected Temperature:														NaOH+Ascorbic Acid: SAPC						
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH	Chloride	BTEX											Sample Comments	
CS50		S	8/7/2024	10:30	2'	C	1	X	X	X											Incident Number	
CS51		S	8/7/2024	10:40	2'	C	1	X	X	X											nAPP2327037534	
CS52		S	8/7/2024	10:50	4'	C	1	X	X	X												
CS53		S	8/7/2024	11:00	4'	C	1	X	X	X												
CS54		S	8/7/2024	11:10	4'	C	1	X	X	X												
CS55		S	8/7/2024	11:20	4'	C	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	
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 \$95.00 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
		8/7 1349			

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-6989-1

SDG Number: Lea County, NM

Login Number: 6989

List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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: 890-6989-1

SDG Number: Lea County, NM

Login Number: 6989

List Source: Eurofins Midland

List Number: 2

List Creation: 08/07/24 10:01 PM

Creator: Laing, Edmundo

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



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 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 8/14/2024 9:09:45 AM

JOB DESCRIPTION

THE CONTEST CTB
2288

JOB NUMBER

890-6992-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



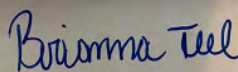
Eurofins Carlsbad

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
8/14/2024 9:09:45 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: THE CONTEST CTB

Laboratory Job ID: 890-6992-1
SDG: 2288

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	15
Lab Chronicle	17
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6992-1
SDG: 2288

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high 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, 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: THE CONTEST CTB

Job ID: 890-6992-1

Job ID: 890-6992-1

Eurofins Carlsbad

Job Narrative 890-6992-1

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 8/8/2024 2:34 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 -0.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS - 56 (890-6992-1), CS - 57 (890-6992-2), CS - 58 (890-6992-3), CS - 59 (890-6992-4) and CS - 60 (890-6992-5).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-47036-A-1-C MS). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-88066 and analytical batch 880-88136 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.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-88136 recovered above the upper control limit for m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-88136/20).

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 surrogate recovery for the blank associated with preparation batch 880-87976 and analytical batch 880-88013 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-87976/2-A). 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

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: THE CONTEST CTB

Job ID: 890-6992-1
SDG: 2288

Client Sample ID: CS - 56

Lab Sample ID: 890-6992-1

Date Collected: 08/08/24 10:40

Matrix: Solid

Date Received: 08/08/24 14:34

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		08/09/24 16:10	08/12/24 17:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:10	08/12/24 17:50	1
Ethylbenzene	<0.00200	U **	0.00200		mg/Kg		08/09/24 16:10	08/12/24 17:50	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399		mg/Kg		08/09/24 16:10	08/12/24 17:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:10	08/12/24 17:50	1
Xylenes, Total	<0.00399	U **	0.00399		mg/Kg		08/09/24 16:10	08/12/24 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	08/09/24 16:10	08/12/24 17:50	1
1,4-Difluorobenzene (Surr)	82		70 - 130	08/09/24 16:10	08/12/24 17:50	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			08/12/24 17:50	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			08/10/24 23:25	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		08/09/24 09:21	08/10/24 23:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/09/24 09:21	08/10/24 23:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/09/24 09:21	08/10/24 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	08/09/24 09:21	08/10/24 23:25	1
o-Terphenyl	79		70 - 130	08/09/24 09:21	08/10/24 23:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.9		4.96		mg/Kg			08/13/24 19:37	1

Client Sample ID: CS - 57

Lab Sample ID: 890-6992-2

Date Collected: 08/08/24 10:50

Matrix: Solid

Date Received: 08/08/24 14:34

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		08/09/24 16:10	08/12/24 18:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:10	08/12/24 18:11	1
Ethylbenzene	<0.00200	U **	0.00200		mg/Kg		08/09/24 16:10	08/12/24 18:11	1
m-Xylene & p-Xylene	<0.00400	U **	0.00400		mg/Kg		08/09/24 16:10	08/12/24 18:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:10	08/12/24 18:11	1
Xylenes, Total	<0.00400	U **	0.00400		mg/Kg		08/09/24 16:10	08/12/24 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	08/09/24 16:10	08/12/24 18:11	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6992-1
SDG: 2288

Client Sample ID: CS - 57

Lab Sample ID: 890-6992-2

Date Collected: 08/08/24 10:50

Matrix: Solid

Date Received: 08/08/24 14:34

Sample Depth: 0.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	86		70 - 130	08/09/24 16:10	08/12/24 18:11	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			08/12/24 18:11	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			08/11/24 00:39	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		08/09/24 09:21	08/11/24 00:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/09/24 09:21	08/11/24 00:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/09/24 09:21	08/11/24 00:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				08/09/24 09:21	08/11/24 00:39	1
o-Terphenyl	76		70 - 130				08/09/24 09:21	08/11/24 00:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.4		5.02		mg/Kg			08/13/24 19:55	1

Client Sample ID: CS - 58

Lab Sample ID: 890-6992-3

Date Collected: 08/08/24 11:00

Matrix: Solid

Date Received: 08/08/24 14:34

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		08/09/24 16:10	08/12/24 18:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/09/24 16:10	08/12/24 18:31	1
Ethylbenzene	<0.00202	U *	0.00202		mg/Kg		08/09/24 16:10	08/12/24 18:31	1
m-Xylene & p-Xylene	<0.00404	U *	0.00404		mg/Kg		08/09/24 16:10	08/12/24 18:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/09/24 16:10	08/12/24 18:31	1
Xylenes, Total	<0.00404	U *	0.00404		mg/Kg		08/09/24 16:10	08/12/24 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/09/24 16:10	08/12/24 18:31	1
1,4-Difluorobenzene (Surr)	84		70 - 130				08/09/24 16:10	08/12/24 18:31	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			08/12/24 18:31	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			08/11/24 00:53	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6992-1
SDG: 2288

Client Sample ID: CS - 58

Lab Sample ID: 890-6992-3

Date Collected: 08/08/24 11:00

Matrix: Solid

Date Received: 08/08/24 14:34

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		08/09/24 09:21	08/11/24 00:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/09/24 09:21	08/11/24 00:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/09/24 09:21	08/11/24 00:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				08/09/24 09:21	08/11/24 00:53	1
o-Terphenyl	72		70 - 130				08/09/24 09:21	08/11/24 00:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.6		5.01		mg/Kg			08/13/24 20:01	1

Client Sample ID: CS - 59

Lab Sample ID: 890-6992-4

Date Collected: 08/08/24 11:10

Matrix: Solid

Date Received: 08/08/24 14:34

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		08/09/24 16:10	08/12/24 18:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/09/24 16:10	08/12/24 18:52	1
Ethylbenzene	<0.00202	U **	0.00202		mg/Kg		08/09/24 16:10	08/12/24 18:52	1
m-Xylene & p-Xylene	<0.00403	U **	0.00403		mg/Kg		08/09/24 16:10	08/12/24 18:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/09/24 16:10	08/12/24 18:52	1
Xylenes, Total	<0.00403	U **	0.00403		mg/Kg		08/09/24 16:10	08/12/24 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				08/09/24 16:10	08/12/24 18:52	1
1,4-Difluorobenzene (Surr)	79		70 - 130				08/09/24 16:10	08/12/24 18:52	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			08/12/24 18:52	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			08/11/24 01:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/09/24 09:21	08/11/24 01:08	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/09/24 09:21	08/11/24 01:08	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/09/24 09:21	08/11/24 01:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				08/09/24 09:21	08/11/24 01:08	1
o-Terphenyl	73		70 - 130				08/09/24 09:21	08/11/24 01:08	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6992-1
SDG: 2288

Client Sample ID: CS - 59

Lab Sample ID: 890-6992-4

Date Collected: 08/08/24 11:10

Matrix: Solid

Date Received: 08/08/24 14:34

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.1		5.04		mg/Kg			08/13/24 20:19	1

Client Sample ID: CS - 60

Lab Sample ID: 890-6992-5

Date Collected: 08/08/24 11:20

Matrix: Solid

Date Received: 08/08/24 14:34

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		08/09/24 16:10	08/12/24 19:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:10	08/12/24 19:13	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		08/09/24 16:10	08/12/24 19:13	1
m-Xylene & p-Xylene	<0.00399	U *	0.00399		mg/Kg		08/09/24 16:10	08/12/24 19:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:10	08/12/24 19:13	1
Xylenes, Total	<0.00399	U *	0.00399		mg/Kg		08/09/24 16:10	08/12/24 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/09/24 16:10	08/12/24 19:13	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/09/24 16:10	08/12/24 19:13	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			08/12/24 19:13	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			08/11/24 01:22	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	<49.8	U	49.8		mg/Kg		08/09/24 09:21	08/11/24 01:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/09/24 09:21	08/11/24 01:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/09/24 09:21	08/11/24 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				08/09/24 09:21	08/11/24 01:22	1
o-Terphenyl	73		70 - 130				08/09/24 09:21	08/11/24 01:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.9		5.00		mg/Kg			08/13/24 20:25	1

Eurofins Carlsbad

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6992-1
SDG: 2288

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-47036-A-1-C MS	Matrix Spike	135 S1+	98
880-47036-A-1-D MSD	Matrix Spike Duplicate	119	115
890-6992-1	CS - 56	99	82
890-6992-2	CS - 57	102	86
890-6992-3	CS - 58	109	84
890-6992-4	CS - 59	99	79
890-6992-5	CS - 60	107	89
LCS 880-88066/1-A	Lab Control Sample	113	94
LCSD 880-88066/2-A	Lab Control Sample Dup	120	97
MB 880-88066/5-A	Method Blank	82	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-6992-1	CS - 56	86	79
890-6992-1 MS	CS - 56	100	83
890-6992-1 MSD	CS - 56	109	90
890-6992-2	CS - 57	84	76
890-6992-3	CS - 58	78	72
890-6992-4	CS - 59	80	73
890-6992-5	CS - 60	81	73
LCS 880-87976/2-A	Lab Control Sample	137 S1+	115
LCSD 880-87976/3-A	Lab Control Sample Dup	119	98
MB 880-87976/1-A	Method Blank	170 S1+	161 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6992-1
SDG: 2288

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-88066/5-A							Client Sample ID: Method Blank			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 88136							Prep Batch: 88066			
	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:10	08/12/24 11:53		1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:10	08/12/24 11:53		1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:10	08/12/24 11:53		1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/09/24 16:10	08/12/24 11:53		1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:10	08/12/24 11:53		1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/09/24 16:10	08/12/24 11:53		1
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	82		70 - 130				08/09/24 16:10	08/12/24 11:53		1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/09/24 16:10	08/12/24 11:53		1

Lab Sample ID: LCS 880-88066/1-A						Client Sample ID: Lab Control Sample				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 88136						Prep Batch: 88066				
			Spike	LCS	LCS			%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene			0.100	0.1018		mg/Kg		102	70 - 130	
Toluene			0.100	0.1077		mg/Kg		108	70 - 130	
Ethylbenzene			0.100	0.1330	*+	mg/Kg		133	70 - 130	
m-Xylene & p-Xylene			0.200	0.2620	*+	mg/Kg		131	70 - 130	
o-Xylene			0.100	0.1260		mg/Kg		126	70 - 130	
			LCS	LCS						
Surrogate		%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)		113		70 - 130						
1,4-Difluorobenzene (Surr)		94		70 - 130						

Lab Sample ID: LCSD 880-88066/2-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 88136							Prep Batch: 88066			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.1016		mg/Kg		102	70 - 130	0	35
Toluene		0.100	0.09871		mg/Kg		99	70 - 130	9	35
Ethylbenzene		0.100	0.1328	*+	mg/Kg		133	70 - 130	0	35
m-Xylene & p-Xylene		0.200	0.2685	*+	mg/Kg		134	70 - 130	2	35
o-Xylene		0.100	0.1293		mg/Kg		129	70 - 130	3	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	120		70 - 130							
1,4-Difluorobenzene (Surr)	97		70 - 130							

Lab Sample ID: 880-47036-A-1-C MS							Client Sample ID: Matrix Spike			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 88136							Prep Batch: 88066			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	<0.00202	U	0.100	0.08506		mg/Kg		85	70 - 130	
Toluene	<0.00202	U	0.100	0.08278		mg/Kg		83	70 - 130	

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6992-1
SDG: 2288

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

Lab Sample ID: 880-47036-A-1-C MS
Matrix: Solid
Analysis Batch: 88136

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 88066

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U *	0.100	0.09831		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	<0.00404	U *	0.200	0.1808		mg/Kg		90	70 - 130
o-Xylene	<0.00202	U	0.100	0.1125		mg/Kg		113	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: 880-47036-A-1-D MSD
Matrix: Solid
Analysis Batch: 88136

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 88066

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.07497		mg/Kg		75	70 - 130	13	35
Toluene	<0.00202	U	0.100	0.07829		mg/Kg		78	70 - 130	6	35
Ethylbenzene	<0.00202	U *	0.100	0.09372		mg/Kg		94	70 - 130	5	35
m-Xylene & p-Xylene	<0.00404	U *	0.200	0.1732		mg/Kg		87	70 - 130	4	35
o-Xylene	<0.00202	U	0.100	0.09427		mg/Kg		94	70 - 130	18	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	119		70 - 130								
1,4-Difluorobenzene (Surr)	115		70 - 130								

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

Lab Sample ID: MB 880-87976/1-A
Matrix: Solid
Analysis Batch: 88013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87976

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		08/09/24 09:21	08/10/24 17:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/09/24 09:21	08/10/24 17:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/09/24 09:21	08/10/24 17:24	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	170	S1+	70 - 130						
o-Terphenyl	161	S1+	70 - 130						

Lab Sample ID: LCS 880-87976/2-A
Matrix: Solid
Analysis Batch: 88013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1091		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1161		mg/Kg		116	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6992-1
SDG: 2288

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

Lab Sample ID: LCS 880-87976/2-A

Matrix: Solid

Analysis Batch: 88013

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87976

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	137	S1+	70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: LCSD 880-87976/3-A

Matrix: Solid

Analysis Batch: 88013

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87976

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1019		mg/Kg		102	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	986.7		mg/Kg		99	70 - 130	16	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 890-6992-1 MS

Matrix: Solid

Analysis Batch: 88013

Client Sample ID: CS - 56

Prep Type: Total/NA

Prep Batch: 87976

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	997	933.4		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	837.1		mg/Kg		84	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 890-6992-1 MSD

Matrix: Solid

Analysis Batch: 88013

Client Sample ID: CS - 56

Prep Type: Total/NA

Prep Batch: 87976

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	997	1024		mg/Kg		103	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	874.2		mg/Kg		88	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	90		70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6992-1
SDG: 2288

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-88107/1-A Matrix: Solid Analysis Batch: 88304										Client Sample ID: Method Blank Prep Type: Soluble	
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			08/13/24 17:54	1		

Lab Sample ID: LCS 880-88107/2-A Matrix: Solid Analysis Batch: 88304										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	253.2		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-88107/3-A Matrix: Solid Analysis Batch: 88304										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	253.6		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-6992-1 MS Matrix: Solid Analysis Batch: 88304										Client Sample ID: CS - 56 Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	90.9		248	340.3		mg/Kg		101	90 - 110		

Lab Sample ID: 890-6992-1 MSD Matrix: Solid Analysis Batch: 88304										Client Sample ID: CS - 56 Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	90.9		248	340.6		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6992-1
SDG: 2288

GC VOA

Prep Batch: 88066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6992-1	CS - 56	Total/NA	Solid	5035	
890-6992-2	CS - 57	Total/NA	Solid	5035	
890-6992-3	CS - 58	Total/NA	Solid	5035	
890-6992-4	CS - 59	Total/NA	Solid	5035	
890-6992-5	CS - 60	Total/NA	Solid	5035	
MB 880-88066/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88066/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88066/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47036-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-47036-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 88136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6992-1	CS - 56	Total/NA	Solid	8021B	88066
890-6992-2	CS - 57	Total/NA	Solid	8021B	88066
890-6992-3	CS - 58	Total/NA	Solid	8021B	88066
890-6992-4	CS - 59	Total/NA	Solid	8021B	88066
890-6992-5	CS - 60	Total/NA	Solid	8021B	88066
MB 880-88066/5-A	Method Blank	Total/NA	Solid	8021B	88066
LCS 880-88066/1-A	Lab Control Sample	Total/NA	Solid	8021B	88066
LCSD 880-88066/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88066
880-47036-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	88066
880-47036-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	88066

Analysis Batch: 88316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6992-1	CS - 56	Total/NA	Solid	Total BTEX	
890-6992-2	CS - 57	Total/NA	Solid	Total BTEX	
890-6992-3	CS - 58	Total/NA	Solid	Total BTEX	
890-6992-4	CS - 59	Total/NA	Solid	Total BTEX	
890-6992-5	CS - 60	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6992-1	CS - 56	Total/NA	Solid	8015NM Prep	
890-6992-2	CS - 57	Total/NA	Solid	8015NM Prep	
890-6992-3	CS - 58	Total/NA	Solid	8015NM Prep	
890-6992-4	CS - 59	Total/NA	Solid	8015NM Prep	
890-6992-5	CS - 60	Total/NA	Solid	8015NM Prep	
MB 880-87976/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87976/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87976/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6992-1 MS	CS - 56	Total/NA	Solid	8015NM Prep	
890-6992-1 MSD	CS - 56	Total/NA	Solid	8015NM Prep	

Analysis Batch: 88013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6992-1	CS - 56	Total/NA	Solid	8015B NM	87976
890-6992-2	CS - 57	Total/NA	Solid	8015B NM	87976

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6992-1
SDG: 2288

GC Semi VOA (Continued)

Analysis Batch: 88013 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6992-3	CS - 58	Total/NA	Solid	8015B NM	87976
890-6992-4	CS - 59	Total/NA	Solid	8015B NM	87976
890-6992-5	CS - 60	Total/NA	Solid	8015B NM	87976
MB 880-87976/1-A	Method Blank	Total/NA	Solid	8015B NM	87976
LCS 880-87976/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87976
LCSD 880-87976/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87976
890-6992-1 MS	CS - 56	Total/NA	Solid	8015B NM	87976
890-6992-1 MSD	CS - 56	Total/NA	Solid	8015B NM	87976

Analysis Batch: 88192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6992-1	CS - 56	Total/NA	Solid	8015 NM	
890-6992-2	CS - 57	Total/NA	Solid	8015 NM	
890-6992-3	CS - 58	Total/NA	Solid	8015 NM	
890-6992-4	CS - 59	Total/NA	Solid	8015 NM	
890-6992-5	CS - 60	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 88107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6992-1	CS - 56	Soluble	Solid	DI Leach	
890-6992-2	CS - 57	Soluble	Solid	DI Leach	
890-6992-3	CS - 58	Soluble	Solid	DI Leach	
890-6992-4	CS - 59	Soluble	Solid	DI Leach	
890-6992-5	CS - 60	Soluble	Solid	DI Leach	
MB 880-88107/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-88107/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-88107/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6992-1 MS	CS - 56	Soluble	Solid	DI Leach	
890-6992-1 MSD	CS - 56	Soluble	Solid	DI Leach	

Analysis Batch: 88304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6992-1	CS - 56	Soluble	Solid	300.0	88107
890-6992-2	CS - 57	Soluble	Solid	300.0	88107
890-6992-3	CS - 58	Soluble	Solid	300.0	88107
890-6992-4	CS - 59	Soluble	Solid	300.0	88107
890-6992-5	CS - 60	Soluble	Solid	300.0	88107
MB 880-88107/1-A	Method Blank	Soluble	Solid	300.0	88107
LCS 880-88107/2-A	Lab Control Sample	Soluble	Solid	300.0	88107
LCSD 880-88107/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	88107
890-6992-1 MS	CS - 56	Soluble	Solid	300.0	88107
890-6992-1 MSD	CS - 56	Soluble	Solid	300.0	88107

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6992-1
SDG: 2288

Client Sample ID: CS - 56

Date Collected: 08/08/24 10:40

Date Received: 08/08/24 14:34

Lab Sample ID: 890-6992-1

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			5.01 g	5 mL	88066	08/09/24 16:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88136	08/12/24 17:50	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88316	08/12/24 17:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			88192	08/10/24 23:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87976	08/09/24 09:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88013	08/10/24 23:25	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88107	08/11/24 11:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88304	08/13/24 19:37	CH	EET MID

Client Sample ID: CS - 57

Date Collected: 08/08/24 10:50

Date Received: 08/08/24 14:34

Lab Sample ID: 890-6992-2

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			5.00 g	5 mL	88066	08/09/24 16:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88136	08/12/24 18:11	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88316	08/12/24 18:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			88192	08/11/24 00:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	87976	08/09/24 09:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88013	08/11/24 00:39	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	88107	08/11/24 11:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88304	08/13/24 19:55	CH	EET MID

Client Sample ID: CS - 58

Date Collected: 08/08/24 11:00

Date Received: 08/08/24 14:34

Lab Sample ID: 890-6992-3

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			4.95 g	5 mL	88066	08/09/24 16:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88136	08/12/24 18:31	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88316	08/12/24 18:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			88192	08/11/24 00:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87976	08/09/24 09:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88013	08/11/24 00:53	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	88107	08/11/24 11:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88304	08/13/24 20:01	CH	EET MID

Client Sample ID: CS - 59

Date Collected: 08/08/24 11:10

Date Received: 08/08/24 14:34

Lab Sample ID: 890-6992-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	88066	08/09/24 16:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88136	08/12/24 18:52	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88316	08/12/24 18:52	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6992-1
SDG: 2288

Client Sample ID: CS - 59
Date Collected: 08/08/24 11:10
Date Received: 08/08/24 14:34

Lab Sample ID: 890-6992-4
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			88192	08/11/24 01:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87976	08/09/24 09:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88013	08/11/24 01:08	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	88107	08/11/24 11:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88304	08/13/24 20:19	CH	EET MID

Client Sample ID: CS - 60
Date Collected: 08/08/24 11:20
Date Received: 08/08/24 14:34

Lab Sample ID: 890-6992-5
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			5.01 g	5 mL	88066	08/09/24 16:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88136	08/12/24 19:13	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88316	08/12/24 19:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			88192	08/11/24 01:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87976	08/09/24 09:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88013	08/11/24 01:22	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	88107	08/11/24 11:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88304	08/13/24 20:25	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: THE CONTEST CTB

Job ID: 890-6992-1
SDG: 2288

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: THE CONTEST CTB

Job ID: 890-6992-1
SDG: 2288

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: THE CONTEST CTB

Job ID: 890-6992-1
SDG: 2288

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6992-1	CS - 56	Solid	08/08/24 10:40	08/08/24 14:34	0.5'
890-6992-2	CS - 57	Solid	08/08/24 10:50	08/08/24 14:34	0.5'
890-6992-3	CS - 58	Solid	08/08/24 11:00	08/08/24 14:34	0.5'
890-6992-4	CS - 59	Solid	08/08/24 11:10	08/08/24 14:34	0.5'
890-6992-5	CS - 60	Solid	08/08/24 11:20	08/08/24 14:34	0.5'

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Environment Testing

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-33
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-129
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-319



290-6992 Chain of Custody

Page 1 of

Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R&R	WORK ORDER COMMENTS Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADaPT ☐ Other:
Company Name:	Earth Systems R&R	Company Name:		
Address:	1910 Resource Ct.	Address:		
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:		
Phone:	832-541-7719	Email:	gmoreno@earthsys.net	

[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	SiO ₂	Na	Sr	Tl	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
0 <i>[Signature]</i>	<i>[Signature]</i>	8/8 1434	2		
3			4		
5			6		

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-6992-1

SDG Number: 2288

Login Number: 6992

List Number: 1

Creator: Bruns, Shannon

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: 890-6992-1
SDG Number: 2288

Login Number: 6992
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 08/09/24 09:09 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
- 5
- 6
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- 9
- 10
- 11
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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 8/14/2024 5:19:40 PM

JOB DESCRIPTION

The Contest CTB
Lea County New Mexico

JOB NUMBER

890-6991-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



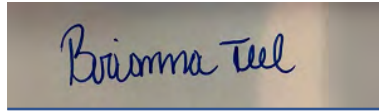
Eurofins Carlsbad

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
8/14/2024 5:19:40 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: The Contest CTB

Laboratory Job ID: 890-6991-1
SDG: Lea County New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	19
Lab Chronicle	22
Certification Summary	24
Method Summary	25
Sample Summary	26
Chain of Custody	27
Receipt Checklists	28

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD 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
F1	MS and/or MSD recovery exceeds control limits.
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: The Contest CTB

Job ID: 890-6991-1

Job ID: 890-6991-1

Eurofins Carlsbad

Job Narrative 890-6991-1

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 8/8/2024 2:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (890-6991-1), H-1 (890-6991-2), H-1 (890-6991-3), H-2 (890-6991-4), H-2 (890-6991-5) and H-2 (890-6991-6).

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: The surrogate recovery for the blank associated with preparation batch 880-87955 and analytical batch 880-88015 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-1 (890-6991-1), (LCS 880-87955/2-A) and (880-46967-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-87955 and analytical batch 880-88015 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 8015MOD_NM: The method blank for preparation batch 880-87955 and analytical batch 880-88015 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL) in the method blank; therefore, re-extraction and re-analysis of samples 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-88094 and analytical batch 880-88145 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

Client Sample ID: H-1

Lab Sample ID: 890-6991-1

Date Collected: 08/08/24 08:30

Matrix: Solid

Date Received: 08/08/24 14:40

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		08/10/24 16:52	08/11/24 16:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/10/24 16:52	08/11/24 16:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/10/24 16:52	08/11/24 16:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/10/24 16:52	08/11/24 16:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/10/24 16:52	08/11/24 16:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/10/24 16:52	08/11/24 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/10/24 16:52	08/11/24 16:32	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/10/24 16:52	08/11/24 16:32	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			08/11/24 16:32	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			08/11/24 03:34	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		08/09/24 07:59	08/11/24 03:34	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/09/24 07:59	08/11/24 03:34	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/09/24 07:59	08/11/24 03:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	08/09/24 07:59	08/11/24 03:34	1
o-Terphenyl	131	S1+	70 - 130	08/09/24 07:59	08/11/24 03:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.0		4.98		mg/Kg			08/14/24 17:03	1

Client Sample ID: H-1

Lab Sample ID: 890-6991-2

Date Collected: 08/08/24 08:40

Matrix: Solid

Date Received: 08/08/24 14:40

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		08/10/24 16:52	08/11/24 16:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/10/24 16:52	08/11/24 16:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/10/24 16:52	08/11/24 16:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/10/24 16:52	08/11/24 16:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/10/24 16:52	08/11/24 16:53	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/10/24 16:52	08/11/24 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/10/24 16:52	08/11/24 16:53	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/10/24 16:52	08/11/24 16:53	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

Client Sample ID: H-1

Lab Sample ID: 890-6991-2

Date Collected: 08/08/24 08:40

Matrix: Solid

Date Received: 08/08/24 14:40

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			08/11/24 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	<49.7	U	49.7		mg/Kg			08/11/24 03:49	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	<49.7	U	49.7		mg/Kg		08/09/24 07:59	08/11/24 03:49	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/09/24 07:59	08/11/24 03:49	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/09/24 07:59	08/11/24 03:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				08/09/24 07:59	08/11/24 03:49	1
o-Terphenyl	95		70 - 130				08/09/24 07:59	08/11/24 03:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.1		5.00		mg/Kg			08/14/24 17:10	1

Client Sample ID: H-1

Lab Sample ID: 890-6991-3

Date Collected: 08/08/24 08:50

Matrix: Solid

Date Received: 08/08/24 14:40

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		08/10/24 16:52	08/11/24 17:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/10/24 16:52	08/11/24 17:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/10/24 16:52	08/11/24 17:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/10/24 16:52	08/11/24 17:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/10/24 16:52	08/11/24 17:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/10/24 16:52	08/11/24 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/10/24 16:52	08/11/24 17:13	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/10/24 16:52	08/11/24 17:13	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			08/11/24 17:13	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			08/11/24 04:03	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	<49.7	U	49.7		mg/Kg		08/09/24 07:59	08/11/24 04:03	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/09/24 07:59	08/11/24 04:03	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

Client Sample ID: H-1

Lab Sample ID: 890-6991-3

Date Collected: 08/08/24 08:50

Matrix: Solid

Date Received: 08/08/24 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/09/24 07:59	08/11/24 04:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				08/09/24 07:59	08/11/24 04:03	1
o-Terphenyl	96		70 - 130				08/09/24 07:59	08/11/24 04:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.6		4.99		mg/Kg			08/14/24 17:16	1

Client Sample ID: H-2

Lab Sample ID: 890-6991-4

Date Collected: 08/08/24 09:00

Matrix: Solid

Date Received: 08/08/24 14:40

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		08/10/24 16:52	08/11/24 17:33	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/10/24 16:52	08/11/24 17:33	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/10/24 16:52	08/11/24 17:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/10/24 16:52	08/11/24 17:33	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/10/24 16:52	08/11/24 17:33	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/10/24 16:52	08/11/24 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/10/24 16:52	08/11/24 17:33	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/10/24 16:52	08/11/24 17:33	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			08/11/24 17:33	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			08/11/24 04:18	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		08/09/24 07:59	08/11/24 04:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/09/24 07:59	08/11/24 04:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/09/24 07:59	08/11/24 04:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				08/09/24 07:59	08/11/24 04:18	1
o-Terphenyl	94		70 - 130				08/09/24 07:59	08/11/24 04:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	186		4.95		mg/Kg			08/14/24 17:22	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

Client Sample ID: H-2

Lab Sample ID: 890-6991-5

Date Collected: 08/08/24 09:10

Matrix: Solid

Date Received: 08/08/24 14:40

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		08/10/24 16:52	08/11/24 17:54	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/10/24 16:52	08/11/24 17:54	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/10/24 16:52	08/11/24 17:54	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/10/24 16:52	08/11/24 17:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/10/24 16:52	08/11/24 17:54	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/10/24 16:52	08/11/24 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/10/24 16:52	08/11/24 17:54	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/10/24 16:52	08/11/24 17:54	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			08/11/24 17:54	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			08/11/24 04:33	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	<49.8	U	49.8		mg/Kg		08/09/24 07:59	08/11/24 04:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/09/24 07:59	08/11/24 04:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/09/24 07:59	08/11/24 04:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/09/24 07:59	08/11/24 04:33	1
o-Terphenyl	102		70 - 130	08/09/24 07:59	08/11/24 04:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.1		4.95		mg/Kg			08/13/24 19:25	1

Client Sample ID: H-2

Lab Sample ID: 890-6991-6

Date Collected: 08/08/24 09:20

Matrix: Solid

Date Received: 08/08/24 14:40

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		08/10/24 16:52	08/11/24 18:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:52	08/11/24 18:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:52	08/11/24 18:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/10/24 16:52	08/11/24 18:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:52	08/11/24 18:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/10/24 16:52	08/11/24 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/10/24 16:52	08/11/24 18:14	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/10/24 16:52	08/11/24 18:14	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

Client Sample ID: H-2
Date Collected: 08/08/24 09:20
Date Received: 08/08/24 14:40

Lab Sample ID: 890-6991-6
Matrix: Solid

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			08/11/24 18:14	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			08/11/24 04:47	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		08/09/24 07:59	08/11/24 04:47	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/09/24 07:59	08/11/24 04:47	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/09/24 07:59	08/11/24 04:47	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	81		70 - 130				08/09/24 07:59	08/11/24 04:47	1	
o-Terphenyl	93		70 - 130				08/09/24 07:59	08/11/24 04:47	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	27.6		4.96		mg/Kg			08/13/24 19:31	1	

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

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)
890-6991-1	H-1	109	96
890-6991-1 MS	H-1	96	101
890-6991-1 MS	H-1	116	96
890-6991-1 MSD	H-1	96	102
890-6991-1 MSD	H-1	118	97
890-6991-2	H-1	116	96
890-6991-3	H-1	109	97
890-6991-4	H-2	110	96
890-6991-5	H-2	109	96
890-6991-6	H-2	116	95
LCS 880-88087/1-A	Lab Control Sample	101	102
LCS 880-88311/1-A	Lab Control Sample	116	96
LCSD 880-88087/2-A	Lab Control Sample Dup	93	104
LCSD 880-88311/2-A	Lab Control Sample Dup	115	96
MB 880-88086/5-A	Method Blank	102	90
MB 880-88087/5-A	Method Blank	98	86
MB 880-88200/5-A	Method Blank	113	96
MB 880-88311/5-A	Method Blank	110	92
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)
880-46967-A-1-E MS	Matrix Spike	123	123
880-46967-A-1-F MSD	Matrix Spike Duplicate	279 S1+	265 S1+
890-6991-1	H-1	115	131 S1+
890-6991-2	H-1	82	95
890-6991-3	H-1	83	96
890-6991-4	H-2	82	94
890-6991-5	H-2	89	102
890-6991-6	H-2	81	93
LCS 880-87955/2-A	Lab Control Sample	130	131 S1+
LCSD 880-87955/3-A	Lab Control Sample Dup	108	107
MB 880-87955/1-A	Method Blank	161 S1+	186 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-88086/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88081							Prep Batch: 88086		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:47	08/11/24 05:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:47	08/11/24 05:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:47	08/11/24 05:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/10/24 16:47	08/11/24 05:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:47	08/11/24 05:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/10/24 16:47	08/11/24 05:35	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				08/10/24 16:47	08/11/24 05:35	1
1,4-Difluorobenzene (Surr)	90		70 - 130				08/10/24 16:47	08/11/24 05:35	1

Lab Sample ID: MB 880-88087/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88081							Prep Batch: 88087		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:52	08/11/24 16:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:52	08/11/24 16:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:52	08/11/24 16:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/10/24 16:52	08/11/24 16:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:52	08/11/24 16:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/10/24 16:52	08/11/24 16:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				08/10/24 16:52	08/11/24 16:10	1
1,4-Difluorobenzene (Surr)	86		70 - 130				08/10/24 16:52	08/11/24 16:10	1

Lab Sample ID: LCS 880-88087/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88081							Prep Batch: 88087		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.1046		mg/Kg		105	70 - 130		
Toluene	0.100	0.08811		mg/Kg		88	70 - 130		
Ethylbenzene	0.100	0.09244		mg/Kg		92	70 - 130		
m-Xylene & p-Xylene	0.200	0.1841		mg/Kg		92	70 - 130		
o-Xylene	0.100	0.09511		mg/Kg		95	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		70 - 130						
1,4-Difluorobenzene (Surr)	102		70 - 130						

Lab Sample ID: LCSD 880-88087/2-A							Client Sample ID: Lab Control Sample Dup		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88081							Prep Batch: 88087		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1107		mg/Kg		111	70 - 130	6	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

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

Lab Sample ID: LCSD 880-88087/2-A

Matrix: Solid

Analysis Batch: 88081

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 88087

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.09275		mg/Kg		93	70 - 130		5	35
Ethylbenzene	0.100	0.09689		mg/Kg		97	70 - 130		5	35
m-Xylene & p-Xylene	0.200	0.1929		mg/Kg		96	70 - 130		5	35
o-Xylene	0.100	0.09953		mg/Kg		100	70 - 130		5	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-6991-1 MS

Matrix: Solid

Analysis Batch: 88081

Client Sample ID: H-1

Prep Type: Total/NA

Prep Batch: 88087

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00199	U	0.0998	0.09559		mg/Kg		96	70 - 130	
Toluene	<0.00199	U	0.0998	0.08098		mg/Kg		81	70 - 130	
Ethylbenzene	<0.00199	U	0.0998	0.08721		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1721		mg/Kg		86	70 - 130	
o-Xylene	<0.00199	U	0.0998	0.08983		mg/Kg		90	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-6991-1 MSD

Matrix: Solid

Analysis Batch: 88081

Client Sample ID: H-1

Prep Type: Total/NA

Prep Batch: 88087

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits			
Benzene	<0.00199	U	0.100	0.09315		mg/Kg		93	70 - 130		3	35
Toluene	<0.00199	U	0.100	0.07734		mg/Kg		77	70 - 130		5	35
Ethylbenzene	<0.00199	U	0.100	0.08398		mg/Kg		84	70 - 130		4	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1654		mg/Kg		83	70 - 130		4	35
o-Xylene	<0.00199	U	0.100	0.08665		mg/Kg		86	70 - 130		4	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-88200/5-A

Matrix: Solid

Analysis Batch: 88256

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 88200

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		08/12/24 14:42	08/13/24 11:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/12/24 14:42	08/13/24 11:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/12/24 14:42	08/13/24 11:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/12/24 14:42	08/13/24 11:28	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

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

Lab Sample ID: MB 880-88200/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88256							Prep Batch: 88200		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/12/24 14:42	08/13/24 11:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/12/24 14:42	08/13/24 11:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/12/24 14:42	08/13/24 11:28	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/12/24 14:42	08/13/24 11:28	1

Lab Sample ID: MB 880-88311/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88256							Prep Batch: 88311		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/13/24 12:48	08/13/24 22:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/13/24 12:48	08/13/24 22:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/13/24 12:48	08/13/24 22:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/13/24 12:48	08/13/24 22:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/13/24 12:48	08/13/24 22:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/13/24 12:48	08/13/24 22:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/13/24 12:48	08/13/24 22:10	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/13/24 12:48	08/13/24 22:10	1

Lab Sample ID: LCS 880-88311/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88256							Prep Batch: 88311		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.1134		mg/Kg		113	70 - 130		
Toluene	0.100	0.1159		mg/Kg		116	70 - 130		
Ethylbenzene	0.100	0.1152		mg/Kg		115	70 - 130		
m-Xylene & p-Xylene	0.200	0.2369		mg/Kg		118	70 - 130		
o-Xylene	0.100	0.1180		mg/Kg		118	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 880-88311/2-A							Client Sample ID: Lab Control Sample Dup		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88256							Prep Batch: 88311		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1077		mg/Kg		108	70 - 130	5	35
Toluene	0.100	0.1100		mg/Kg		110	70 - 130	5	35
Ethylbenzene	0.100	0.1096		mg/Kg		110	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2257		mg/Kg		113	70 - 130	5	35
o-Xylene	0.100	0.1127		mg/Kg		113	70 - 130	5	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-6991-1 MS

Matrix: Solid

Analysis Batch: 88256

Client Sample ID: H-1

Prep Type: Total/NA

Prep Batch: 88311

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.07683		mg/Kg		77	70 - 130
Toluene	<0.00199	U	0.0996	0.08087		mg/Kg		81	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.08216		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1700		mg/Kg		85	70 - 130
o-Xylene	<0.00199	U	0.0996	0.08727		mg/Kg		88	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-6991-1 MSD

Matrix: Solid

Analysis Batch: 88256

Client Sample ID: H-1

Prep Type: Total/NA

Prep Batch: 88311

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0994	0.1044		mg/Kg		105	70 - 130	30	35
Toluene	<0.00199	U	0.0994	0.1070		mg/Kg		108	70 - 130	28	35
Ethylbenzene	<0.00199	U	0.0994	0.1064		mg/Kg		107	70 - 130	26	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2175		mg/Kg		109	70 - 130	25	35
o-Xylene	<0.00199	U	0.0994	0.1082		mg/Kg		109	70 - 130	21	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-87955/1-A

Matrix: Solid

Analysis Batch: 88015

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87955

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		08/09/24 07:59	08/10/24 17:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/09/24 07:59	08/10/24 17:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/09/24 07:59	08/10/24 17:24	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	161	S1+	70 - 130	08/09/24 07:59	08/10/24 17:24	1			
o-Terphenyl	186	S1+	70 - 130	08/09/24 07:59	08/10/24 17:24	1			

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

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

Lab Sample ID: LCS 880-87955/2-A

Matrix: Solid

Analysis Batch: 88015

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87955

	Spike	LCS Result	LCS Qualifier	D	%Rec	%Rec Limits
Analyte	Added					
Gasoline Range Organics (GRO)-C6-C10	1000	1067			107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1223			122	70 - 130
	LCS %Recovery	LCS Qualifier	Limits			
Surrogate						
1-Chlorooctane	130		70 - 130			
o-Terphenyl	131	S1+	70 - 130			

Lab Sample ID: LCSD 880-87955/3-A

Matrix: Solid

Analysis Batch: 88015

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87955

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	912.5		mg/Kg	-	91	70 - 130	16	20
Diesel Range Organics (Over C10-C28)			1000	1022		mg/Kg		102	70 - 130	18	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	107		70 - 130								

Lab Sample ID: 880-46967-A-1-E MS

Matrix: Solid

Analysis Batch: 88015

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 87955

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F2 F1	995	924.8		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.6	U F2 F1	995	999.6		mg/Kg		100	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	123		70 - 130								
o-Terphenyl	123		70 - 130								

Lab Sample ID: 880-46967-A-1-F MSD

Matrix: Solid

Analysis Batch: 88015

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 87955

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F2 F1	995	2108	F1 F2	mg/Kg		212	70 - 130	78	20
Diesel Range Organics (Over C10-C28)	<49.6	U F2 F1	995	2202	F1 F2	mg/Kg		221	70 - 130	75	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	279	S1+	70 - 130								

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

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

Lab Sample ID: 880-46967-A-1-F MSD
Matrix: Solid
Analysis Batch: 88015

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 87955

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	265	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-88094/1-A
Matrix: Solid
Analysis Batch: 88145

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			08/14/24 14:20	1

Lab Sample ID: LCS 880-88094/2-A
Matrix: Solid
Analysis Batch: 88145

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits		
		Result	Qualifier						
Chloride	250	251.5		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-88094/3-A
Matrix: Solid
Analysis Batch: 88145

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
Chloride	250	251.6		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-47070-A-4-B MS
Matrix: Solid
Analysis Batch: 88145

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits		
	Result	Qualifier		Result	Qualifier						
Chloride	6920	F1	5040	13830	F1	mg/Kg		137	90 - 110		

Lab Sample ID: 880-47070-A-4-C MSD
Matrix: Solid
Analysis Batch: 88145

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier						
Chloride	6920	F1	5040	13830	F1	mg/Kg		137	90 - 110	0	20

Lab Sample ID: MB 880-88107/1-A
Matrix: Solid
Analysis Batch: 88304

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<5.00	U	5.00		mg/Kg			08/13/24 17:54	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-88107/2-A				Client Sample ID: Lab Control Sample							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 88304											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	253.2		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-88107/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 88304											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	253.6		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-6992-A-1-G MS				Client Sample ID: Matrix Spike							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 88304											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	90.9		248	340.3		mg/Kg		101	90 - 110		

Lab Sample ID: 890-6992-A-1-H MSD				Client Sample ID: Matrix Spike Duplicate							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 88304											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	90.9		248	340.6		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

GC VOA

Analysis Batch: 88081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6991-1	H-1	Total/NA	Solid	8021B	88087
890-6991-2	H-1	Total/NA	Solid	8021B	88087
890-6991-3	H-1	Total/NA	Solid	8021B	88087
890-6991-4	H-2	Total/NA	Solid	8021B	88087
890-6991-5	H-2	Total/NA	Solid	8021B	88087
890-6991-6	H-2	Total/NA	Solid	8021B	88087
MB 880-88086/5-A	Method Blank	Total/NA	Solid	8021B	88086
MB 880-88087/5-A	Method Blank	Total/NA	Solid	8021B	88087
LCS 880-88087/1-A	Lab Control Sample	Total/NA	Solid	8021B	88087
LCSD 880-88087/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88087
890-6991-1 MS	H-1	Total/NA	Solid	8021B	88087
890-6991-1 MSD	H-1	Total/NA	Solid	8021B	88087

Prep Batch: 88086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-88086/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 88087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6991-1	H-1	Total/NA	Solid	5035	
890-6991-2	H-1	Total/NA	Solid	5035	
890-6991-3	H-1	Total/NA	Solid	5035	
890-6991-4	H-2	Total/NA	Solid	5035	
890-6991-5	H-2	Total/NA	Solid	5035	
890-6991-6	H-2	Total/NA	Solid	5035	
MB 880-88087/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88087/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88087/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6991-1 MS	H-1	Total/NA	Solid	5035	
890-6991-1 MSD	H-1	Total/NA	Solid	5035	

Prep Batch: 88200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-88200/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 88236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6991-1	H-1	Total/NA	Solid	Total BTEX	
890-6991-2	H-1	Total/NA	Solid	Total BTEX	
890-6991-3	H-1	Total/NA	Solid	Total BTEX	
890-6991-4	H-2	Total/NA	Solid	Total BTEX	
890-6991-5	H-2	Total/NA	Solid	Total BTEX	
890-6991-6	H-2	Total/NA	Solid	Total BTEX	

Analysis Batch: 88256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-88200/5-A	Method Blank	Total/NA	Solid	8021B	88200
MB 880-88311/5-A	Method Blank	Total/NA	Solid	8021B	88311
LCS 880-88311/1-A	Lab Control Sample	Total/NA	Solid	8021B	88311
LCSD 880-88311/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88311
890-6991-1 MS	H-1	Total/NA	Solid	8021B	88311

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

GC VOA (Continued)

Analysis Batch: 88256 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6991-1 MSD	H-1	Total/NA	Solid	8021B	88311

Prep Batch: 88311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-88311/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88311/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88311/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6991-1 MS	H-1	Total/NA	Solid	5035	
890-6991-1 MSD	H-1	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 87955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6991-1	H-1	Total/NA	Solid	8015NM Prep	
890-6991-2	H-1	Total/NA	Solid	8015NM Prep	
890-6991-3	H-1	Total/NA	Solid	8015NM Prep	
890-6991-4	H-2	Total/NA	Solid	8015NM Prep	
890-6991-5	H-2	Total/NA	Solid	8015NM Prep	
890-6991-6	H-2	Total/NA	Solid	8015NM Prep	
MB 880-87955/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87955/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87955/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-46967-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-46967-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 88015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6991-1	H-1	Total/NA	Solid	8015B NM	87955
890-6991-2	H-1	Total/NA	Solid	8015B NM	87955
890-6991-3	H-1	Total/NA	Solid	8015B NM	87955
890-6991-4	H-2	Total/NA	Solid	8015B NM	87955
890-6991-5	H-2	Total/NA	Solid	8015B NM	87955
890-6991-6	H-2	Total/NA	Solid	8015B NM	87955
MB 880-87955/1-A	Method Blank	Total/NA	Solid	8015B NM	87955
LCS 880-87955/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87955
LCSD 880-87955/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87955
880-46967-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	87955
880-46967-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87955

Analysis Batch: 88170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6991-1	H-1	Total/NA	Solid	8015 NM	
890-6991-2	H-1	Total/NA	Solid	8015 NM	
890-6991-3	H-1	Total/NA	Solid	8015 NM	
890-6991-4	H-2	Total/NA	Solid	8015 NM	
890-6991-5	H-2	Total/NA	Solid	8015 NM	
890-6991-6	H-2	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

HPLC/IC

Leach Batch: 88094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6991-1	H-1	Soluble	Solid	DI Leach	
890-6991-2	H-1	Soluble	Solid	DI Leach	
890-6991-3	H-1	Soluble	Solid	DI Leach	
890-6991-4	H-2	Soluble	Solid	DI Leach	
MB 880-88094/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-88094/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-88094/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47070-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-47070-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 88107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6991-5	H-2	Soluble	Solid	DI Leach	
890-6991-6	H-2	Soluble	Solid	DI Leach	
MB 880-88107/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-88107/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-88107/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6992-A-1-G MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6992-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 88145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6991-1	H-1	Soluble	Solid	300.0	88094
890-6991-2	H-1	Soluble	Solid	300.0	88094
890-6991-3	H-1	Soluble	Solid	300.0	88094
890-6991-4	H-2	Soluble	Solid	300.0	88094
MB 880-88094/1-A	Method Blank	Soluble	Solid	300.0	88094
LCS 880-88094/2-A	Lab Control Sample	Soluble	Solid	300.0	88094
LCSD 880-88094/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	88094
880-47070-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	88094
880-47070-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	88094

Analysis Batch: 88304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6991-5	H-2	Soluble	Solid	300.0	88107
890-6991-6	H-2	Soluble	Solid	300.0	88107
MB 880-88107/1-A	Method Blank	Soluble	Solid	300.0	88107
LCS 880-88107/2-A	Lab Control Sample	Soluble	Solid	300.0	88107
LCSD 880-88107/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	88107
890-6992-A-1-G MS	Matrix Spike	Soluble	Solid	300.0	88107
890-6992-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	88107

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

Client Sample ID: H-1

Date Collected: 08/08/24 08:30

Date Received: 08/08/24 14:40

Lab Sample ID: 890-6991-1

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			5.02 g	5 mL	88087	08/10/24 16:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88081	08/11/24 16:32	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88236	08/11/24 16:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			88170	08/11/24 03:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87955	08/09/24 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88015	08/11/24 03:34	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88094	08/11/24 10:26	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88145	08/14/24 17:03	CH	EET MID

Client Sample ID: H-1

Date Collected: 08/08/24 08:40

Date Received: 08/08/24 14:40

Lab Sample ID: 890-6991-2

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			4.96 g	5 mL	88087	08/10/24 16:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88081	08/11/24 16:53	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88236	08/11/24 16:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			88170	08/11/24 03:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	87955	08/09/24 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88015	08/11/24 03:49	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	88094	08/11/24 10:26	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88145	08/14/24 17:10	CH	EET MID

Client Sample ID: H-1

Date Collected: 08/08/24 08:50

Date Received: 08/08/24 14:40

Lab Sample ID: 890-6991-3

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			5.03 g	5 mL	88087	08/10/24 16:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88081	08/11/24 17:13	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88236	08/11/24 17:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			88170	08/11/24 04:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87955	08/09/24 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88015	08/11/24 04:03	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	88094	08/11/24 10:26	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88145	08/14/24 17:16	CH	EET MID

Client Sample ID: H-2

Date Collected: 08/08/24 09:00

Date Received: 08/08/24 14:40

Lab Sample ID: 890-6991-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	88087	08/10/24 16:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88081	08/11/24 17:33	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88236	08/11/24 17:33	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

Client Sample ID: H-2

Date Collected: 08/08/24 09:00

Date Received: 08/08/24 14:40

Lab Sample ID: 890-6991-4

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			88170	08/11/24 04:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87955	08/09/24 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88015	08/11/24 04:18	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	88094	08/11/24 10:26	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88145	08/14/24 17:22	CH	EET MID

Client Sample ID: H-2

Date Collected: 08/08/24 09:10

Date Received: 08/08/24 14:40

Lab Sample ID: 890-6991-5

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	88087	08/10/24 16:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88081	08/11/24 17:54	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88236	08/11/24 17:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			88170	08/11/24 04:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87955	08/09/24 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88015	08/11/24 04:33	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	88107	08/11/24 11:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88304	08/13/24 19:25	CH	EET MID

Client Sample ID: H-2

Date Collected: 08/08/24 09:20

Date Received: 08/08/24 14:40

Lab Sample ID: 890-6991-6

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			5.01 g	5 mL	88087	08/10/24 16:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88081	08/11/24 18:14	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88236	08/11/24 18:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			88170	08/11/24 04:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87955	08/09/24 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88015	08/11/24 04:47	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88107	08/11/24 11:33	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88304	08/13/24 19:31	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: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

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: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

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: The Contest CTB

Job ID: 890-6991-1
SDG: Lea County New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6991-1	H-1	Solid	08/08/24 08:30	08/08/24 14:40
890-6991-2	H-1	Solid	08/08/24 08:40	08/08/24 14:40
890-6991-3	H-1	Solid	08/08/24 08:50	08/08/24 14:40
890-6991-4	H-2	Solid	08/08/24 09:00	08/08/24 14:40
890-6991-5	H-2	Solid	08/08/24 09:10	08/08/24 14:40
890-6991-6	H-2	Solid	08/08/24 09:20	08/08/24 14:40

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- 2
- 3
- 4
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- 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)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
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: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADaPT ☐ Other:	

Project Name:		The Contest CTB		Turn Around		ANALYSIS REQUEST										Preservative Codes						
Project Number:		2288		☒ Routine ☐ Rush		Pres. Code										None: NO DI Water: H ₂ O						
Project Location:		Lea County, NM		Due Date:		5 day TAT												Cool: Cool MeOH: Me				
Sampler's Name:		Gilbert Moreno		TAT starts the day received by the lab, if received by 4:30pm												HCL: HC HNO ₃ : HN						
PO #:																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 Intact:		Yes No		Thermometer ID:												NaHSO ₄ : NABIS						
Cooler Custody Seals:		Yes No N/A		Correction Factor:												Na ₂ S ₂ O ₃ : NaSO ₃						
Sample Custody Seals:		Yes No N/A		Temperature Reading:												Zn Acetate+NaOH: Zn						
Total Containers:				Corrected Temperature:												NaOH+Ascorbic Acid: SAPC						
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH	Chloride	BTEX											Sample Comments	
HA-1		S	8/8/2024	8:30	0.5'	C	1	X	X	X											Incident Number	
HA-1		S	8/8/2024	8:40	1'	C	1	X	X	X											nAPP2327037534	
HA-1		S	8/8/2024	8:50	4'	C	1	X	X	X												
HA-2		S	8/8/2024	9:00	0.5'	C	1	X	X	X												
HA-2		S	8/8/2024	9:10	1'	C	1	X	X	X												
HA-2		S	8/8/2024	9:20	4'	C	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
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
0		8/8 1434			
3					
5					

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-6991-1

SDG Number: Lea County New Mexico

Login Number: 6991

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: 890-6991-1
SDG Number: Lea County New Mexico

Login Number: 6991
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 08/09/24 09:09 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
- 5
- 6
- 7
- 8
- 9
- 10
- 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 8/12/2024 5:43:38 PM

JOB DESCRIPTION

The Contest CTB
Lea County New Mexico

JOB NUMBER

890-6993-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



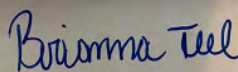
Eurofins Carlsbad

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
8/12/2024 5:43:38 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: The Contest CTB

Laboratory Job ID: 890-6993-1
SDG: Lea County New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	15
Lab Chronicle	17
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6993-1
SDG: Lea County New Mexico

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
F1	MS and/or MSD recovery exceeds control limits.
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: The Contest CTB

Job ID: 890-6993-1

Job ID: 890-6993-1

Eurofins Carlsbad

Job Narrative 890-6993-1

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 8/8/2024 2:49 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA-3 (890-6993-1), HA-3 (890-6993-2), HA-4 (890-6993-3) and HA-4 (890-6993-4).

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: The surrogate recovery for the blank associated with preparation batch 880-87976 and analytical batch 880-88013 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-87976/2-A). 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-88093 and analytical batch 880-88146 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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: The Contest CTB

Job ID: 890-6993-1
SDG: Lea County New Mexico

Client Sample ID: HA-3

Lab Sample ID: 890-6993-1

Date Collected: 08/08/24 09:30

Matrix: Solid

Date Received: 08/08/24 14:49

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		08/10/24 16:52	08/11/24 18:35	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/10/24 16:52	08/11/24 18:35	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/10/24 16:52	08/11/24 18:35	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/10/24 16:52	08/11/24 18:35	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/10/24 16:52	08/11/24 18:35	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/10/24 16:52	08/11/24 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/10/24 16:52	08/11/24 18:35	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/10/24 16:52	08/11/24 18:35	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			08/11/24 18:35	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			08/11/24 01:37	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	<49.9	U	49.9		mg/Kg		08/09/24 09:21	08/11/24 01:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/09/24 09:21	08/11/24 01:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/09/24 09:21	08/11/24 01:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	08/09/24 09:21	08/11/24 01:37	1
o-Terphenyl	85		70 - 130	08/09/24 09:21	08/11/24 01:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.4		25.3		mg/Kg			08/12/24 13:31	5

Client Sample ID: HA-3

Lab Sample ID: 890-6993-2

Date Collected: 08/08/24 09:40

Matrix: Solid

Date Received: 08/08/24 14:49

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		08/10/24 16:52	08/11/24 18:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:52	08/11/24 18:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:52	08/11/24 18:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/10/24 16:52	08/11/24 18:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:52	08/11/24 18:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/10/24 16:52	08/11/24 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/10/24 16:52	08/11/24 18:55	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/10/24 16:52	08/11/24 18:55	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6993-1
SDG: Lea County New Mexico

Client Sample ID: HA-3

Lab Sample ID: 890-6993-2

Date Collected: 08/08/24 09:40

Matrix: Solid

Date Received: 08/08/24 14:49

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			08/11/24 18:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/11/24 01:51	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	<49.8	U	49.8		mg/Kg		08/09/24 09:21	08/11/24 01:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/09/24 09:21	08/11/24 01:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/09/24 09:21	08/11/24 01:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				08/09/24 09:21	08/11/24 01:51	1
o-Terphenyl	71		70 - 130				08/09/24 09:21	08/11/24 01:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.1		5.04		mg/Kg			08/12/24 13:37	1

Client Sample ID: HA-4

Lab Sample ID: 890-6993-3

Date Collected: 08/08/24 09:50

Matrix: Solid

Date Received: 08/08/24 14:49

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		08/10/24 16:52	08/11/24 19:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/10/24 16:52	08/11/24 19:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/10/24 16:52	08/11/24 19:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/10/24 16:52	08/11/24 19:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/10/24 16:52	08/11/24 19:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/10/24 16:52	08/11/24 19:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				08/10/24 16:52	08/11/24 19:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/10/24 16:52	08/11/24 19:16	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			08/11/24 19:16	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			08/11/24 02:06	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	<50.0	U	50.0		mg/Kg		08/09/24 09:21	08/11/24 02:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/09/24 09:21	08/11/24 02:06	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6993-1
SDG: Lea County New Mexico

Client Sample ID: HA-4

Lab Sample ID: 890-6993-3

Date Collected: 08/08/24 09:50

Matrix: Solid

Date Received: 08/08/24 14:49

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/09/24 09:21	08/11/24 02:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				08/09/24 09:21	08/11/24 02:06	1
o-Terphenyl	73		70 - 130				08/09/24 09:21	08/11/24 02:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.4		4.98		mg/Kg			08/12/24 13:43	1

Client Sample ID: HA-4

Lab Sample ID: 890-6993-4

Date Collected: 08/08/24 10:00

Matrix: Solid

Date Received: 08/08/24 14:49

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		08/10/24 16:52	08/11/24 19:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:52	08/11/24 19:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:52	08/11/24 19:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/10/24 16:52	08/11/24 19:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:52	08/11/24 19:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/10/24 16:52	08/11/24 19:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				08/10/24 16:52	08/11/24 19:36	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/10/24 16:52	08/11/24 19:36	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			08/11/24 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			08/11/24 02:35	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		08/09/24 09:21	08/11/24 02:35	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		08/09/24 09:21	08/11/24 02:35	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/09/24 09:21	08/11/24 02:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				08/09/24 09:21	08/11/24 02:35	1
o-Terphenyl	78		70 - 130				08/09/24 09:21	08/11/24 02:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.1		4.97		mg/Kg			08/12/24 13:49	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6993-1
SDG: Lea County New Mexico

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)
890-6991-A-1-B MS	Matrix Spike	96	101
890-6991-A-1-C MSD	Matrix Spike Duplicate	96	102
890-6993-1	HA-3	111	98
890-6993-2	HA-3	110	96
890-6993-3	HA-4	114	96
890-6993-4	HA-4	112	95
LCS 880-88087/1-A	Lab Control Sample	101	102
LCSD 880-88087/2-A	Lab Control Sample Dup	93	104
MB 880-88086/5-A	Method Blank	102	90
MB 880-88087/5-A	Method Blank	98	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)
890-6992-A-1-B MS	Matrix Spike	100	83
890-6992-A-1-C MSD	Matrix Spike Duplicate	109	90
890-6993-1	HA-3	93	85
890-6993-2	HA-3	79	71
890-6993-3	HA-4	81	73
890-6993-4	HA-4	88	78
LCS 880-87976/2-A	Lab Control Sample	137 S1+	115
LCSD 880-87976/3-A	Lab Control Sample Dup	119	98
MB 880-87976/1-A	Method Blank	170 S1+	161 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6993-1
SDG: Lea County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-88086/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88081							Prep Batch: 88086		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:47	08/11/24 05:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:47	08/11/24 05:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:47	08/11/24 05:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/10/24 16:47	08/11/24 05:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:47	08/11/24 05:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/10/24 16:47	08/11/24 05:35	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				08/10/24 16:47	08/11/24 05:35	1
1,4-Difluorobenzene (Surr)	90		70 - 130				08/10/24 16:47	08/11/24 05:35	1

Lab Sample ID: MB 880-88087/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88081							Prep Batch: 88087		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:52	08/11/24 16:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:52	08/11/24 16:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:52	08/11/24 16:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/10/24 16:52	08/11/24 16:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/10/24 16:52	08/11/24 16:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/10/24 16:52	08/11/24 16:10	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				08/10/24 16:52	08/11/24 16:10	1
1,4-Difluorobenzene (Surr)	86		70 - 130				08/10/24 16:52	08/11/24 16:10	1

Lab Sample ID: LCS 880-88087/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88081							Prep Batch: 88087		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.1046		mg/Kg		105	70 - 130		
Toluene	0.100	0.08811		mg/Kg		88	70 - 130		
Ethylbenzene	0.100	0.09244		mg/Kg		92	70 - 130		
m-Xylene & p-Xylene	0.200	0.1841		mg/Kg		92	70 - 130		
o-Xylene	0.100	0.09511		mg/Kg		95	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		70 - 130						
1,4-Difluorobenzene (Surr)	102		70 - 130						

Lab Sample ID: LCSD 880-88087/2-A							Client Sample ID: Lab Control Sample Dup		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 88081							Prep Batch: 88087		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1107		mg/Kg		111	70 - 130	6	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6993-1
SDG: Lea County New Mexico

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

Lab Sample ID: LCSD 880-88087/2-A
Matrix: Solid
Analysis Batch: 88081

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88087

Analyte	Spike		LCSD		Unit	D	%Rec	%Rec		RPD
	Added		Result	Qualifier				Limits		
Toluene	0.100		0.09275		mg/Kg		93	70 - 130	5	35
Ethylbenzene	0.100		0.09689		mg/Kg		97	70 - 130	5	35
m-Xylene & p-Xylene	0.200		0.1929		mg/Kg		96	70 - 130	5	35
o-Xylene	0.100		0.09953		mg/Kg		100	70 - 130	5	35
		LCSD	LCSD							
Surrogate		%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)		93		70 - 130						
1,4-Difluorobenzene (Surr)		104		70 - 130						

Lab Sample ID: 890-6991-A-1-B MS
Matrix: Solid
Analysis Batch: 88081

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 88087

Analyte	Sample		Spike	MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Benzene	<0.00199	U	0.0998	0.09559		mg/Kg		96	70 - 130	
Toluene	<0.00199	U	0.0998	0.08098		mg/Kg		81	70 - 130	
Ethylbenzene	<0.00199	U	0.0998	0.08721		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1721		mg/Kg		86	70 - 130	
o-Xylene	<0.00199	U	0.0998	0.08983		mg/Kg		90	70 - 130	
		MS	MS							
Surrogate		%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)		96		70 - 130						
1,4-Difluorobenzene (Surr)		101		70 - 130						

Lab Sample ID: 890-6991-A-1-C MSD
Matrix: Solid
Analysis Batch: 88081

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 88087

Analyte	Sample		Spike	MSD		Unit	D	%Rec	%Rec		RPD
	Result	Qualifier		Result	Qualifier				Limits		
Benzene	<0.00199	U	0.100	0.09315		mg/Kg		93	70 - 130	3	35
Toluene	<0.00199	U	0.100	0.07734		mg/Kg		77	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.100	0.08398		mg/Kg		84	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1654		mg/Kg		83	70 - 130	4	35
o-Xylene	<0.00199	U	0.100	0.08665		mg/Kg		86	70 - 130	4	35
		MSD	MSD								
Surrogate		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)		96		70 - 130							
1,4-Difluorobenzene (Surr)		102		70 - 130							

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

Lab Sample ID: MB 880-87976/1-A
Matrix: Solid
Analysis Batch: 88013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87976

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/09/24 09:21	08/10/24 17:24	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6993-1
SDG: Lea County New Mexico

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

Lab Sample ID: MB 880-87976/1-A

Matrix: Solid

Analysis Batch: 88013

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87976

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/09/24 09:21	08/10/24 17:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/09/24 09:21	08/10/24 17:24	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	170	S1+	70 - 130				08/09/24 09:21	08/10/24 17:24	1
o-Terphenyl	161	S1+	70 - 130				08/09/24 09:21	08/10/24 17:24	1

Lab Sample ID: LCS 880-87976/2-A

Matrix: Solid

Analysis Batch: 88013

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1091		mg/Kg		109	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1161		mg/Kg		116	70 - 130		
Surrogate	LCS	LCS	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	137	S1+	70 - 130						
o-Terphenyl	115		70 - 130						

Lab Sample ID: LCSD 880-87976/3-A

Matrix: Solid

Analysis Batch: 88013

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87976

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1019		mg/Kg		102	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	986.7		mg/Kg		99	70 - 130	16	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	119		70 - 130						
o-Terphenyl	98		70 - 130						

Lab Sample ID: 890-6992-A-1-B MS

Matrix: Solid

Analysis Batch: 88013

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 87976

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier									
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	933.4		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	837.1		mg/Kg		84	70 - 130		
Surrogate	MS	MS	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	100		70 - 130								
o-Terphenyl	83		70 - 130								

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6993-1
SDG: Lea County New Mexico

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

Lab Sample ID: 890-6992-A-1-C MSD

Matrix: Solid

Analysis Batch: 88013

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 87976

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	997	1024		mg/Kg		103	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	874.2		mg/Kg		88	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	109		70 - 130								
o-Terphenyl	90		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-88093/1-A

Matrix: Solid

Analysis Batch: 88146

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/12/24 11:00	1

Lab Sample ID: LCS 880-88093/2-A

Matrix: Solid

Analysis Batch: 88146

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.7		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-88093/3-A

Matrix: Solid

Analysis Batch: 88146

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	253.2		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-47096-A-1-C MS

Matrix: Solid

Analysis Batch: 88146

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	23.4		253	278.5		mg/Kg		101	90 - 110

Lab Sample ID: 880-47096-A-1-D MSD

Matrix: Solid

Analysis Batch: 88146

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	23.4		253	278.6		mg/Kg		101	90 - 110	0	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6993-1
SDG: Lea County New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-47104-A-1-B MS

Matrix: Solid

Analysis Batch: 88146

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	21800	F1	12500	38780	F1	mg/Kg		136	90 - 110

Lab Sample ID: 880-47104-A-1-C MSD

Matrix: Solid

Analysis Batch: 88146

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	21800	F1	12500	38870	F1	mg/Kg		136	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6993-1
SDG: Lea County New Mexico

GC VOA

Analysis Batch: 88081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6993-1	HA-3	Total/NA	Solid	8021B	88087
890-6993-2	HA-3	Total/NA	Solid	8021B	88087
890-6993-3	HA-4	Total/NA	Solid	8021B	88087
890-6993-4	HA-4	Total/NA	Solid	8021B	88087
MB 880-88086/5-A	Method Blank	Total/NA	Solid	8021B	88086
MB 880-88087/5-A	Method Blank	Total/NA	Solid	8021B	88087
LCS 880-88087/1-A	Lab Control Sample	Total/NA	Solid	8021B	88087
LCSD 880-88087/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88087
890-6991-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	88087
890-6991-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	88087

Prep Batch: 88086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-88086/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 88087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6993-1	HA-3	Total/NA	Solid	5035	
890-6993-2	HA-3	Total/NA	Solid	5035	
890-6993-3	HA-4	Total/NA	Solid	5035	
890-6993-4	HA-4	Total/NA	Solid	5035	
MB 880-88087/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88087/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88087/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6991-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-6991-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 88237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6993-1	HA-3	Total/NA	Solid	Total BTEX	
890-6993-2	HA-3	Total/NA	Solid	Total BTEX	
890-6993-3	HA-4	Total/NA	Solid	Total BTEX	
890-6993-4	HA-4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6993-1	HA-3	Total/NA	Solid	8015NM Prep	
890-6993-2	HA-3	Total/NA	Solid	8015NM Prep	
890-6993-3	HA-4	Total/NA	Solid	8015NM Prep	
890-6993-4	HA-4	Total/NA	Solid	8015NM Prep	
MB 880-87976/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87976/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87976/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6992-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6992-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 88013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6993-1	HA-3	Total/NA	Solid	8015B NM	87976

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6993-1
SDG: Lea County New Mexico

GC Semi VOA (Continued)

Analysis Batch: 88013 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6993-2	HA-3	Total/NA	Solid	8015B NM	87976
890-6993-3	HA-4	Total/NA	Solid	8015B NM	87976
890-6993-4	HA-4	Total/NA	Solid	8015B NM	87976
MB 880-87976/1-A	Method Blank	Total/NA	Solid	8015B NM	87976
LCS 880-87976/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87976
LCSD 880-87976/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87976
890-6992-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	87976
890-6992-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87976

Analysis Batch: 88193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6993-1	HA-3	Total/NA	Solid	8015 NM	
890-6993-2	HA-3	Total/NA	Solid	8015 NM	
890-6993-3	HA-4	Total/NA	Solid	8015 NM	
890-6993-4	HA-4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 88093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6993-1	HA-3	Soluble	Solid	DI Leach	
890-6993-2	HA-3	Soluble	Solid	DI Leach	
890-6993-3	HA-4	Soluble	Solid	DI Leach	
890-6993-4	HA-4	Soluble	Solid	DI Leach	
MB 880-88093/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-88093/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-88093/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47096-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-47096-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-47104-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-47104-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 88146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6993-1	HA-3	Soluble	Solid	300.0	88093
890-6993-2	HA-3	Soluble	Solid	300.0	88093
890-6993-3	HA-4	Soluble	Solid	300.0	88093
890-6993-4	HA-4	Soluble	Solid	300.0	88093
MB 880-88093/1-A	Method Blank	Soluble	Solid	300.0	88093
LCS 880-88093/2-A	Lab Control Sample	Soluble	Solid	300.0	88093
LCSD 880-88093/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	88093
880-47096-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	88093
880-47096-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	88093
880-47104-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	88093
880-47104-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	88093

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6993-1
SDG: Lea County New Mexico

Client Sample ID: HA-3

Lab Sample ID: 890-6993-1

Date Collected: 08/08/24 09:30

Matrix: Solid

Date Received: 08/08/24 14:49

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	88087	08/10/24 16:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88081	08/11/24 18:35	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88237	08/11/24 18:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			88193	08/11/24 01:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	87976	08/09/24 09:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88013	08/11/24 01:37	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	88093	08/11/24 10:22	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	88146	08/12/24 13:31	CH	EET MID

Client Sample ID: HA-3

Lab Sample ID: 890-6993-2

Date Collected: 08/08/24 09:40

Matrix: Solid

Date Received: 08/08/24 14:49

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	88087	08/10/24 16:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88081	08/11/24 18:55	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88237	08/11/24 18:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			88193	08/11/24 01:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87976	08/09/24 09:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88013	08/11/24 01:51	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	88093	08/11/24 10:22	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88146	08/12/24 13:37	CH	EET MID

Client Sample ID: HA-4

Lab Sample ID: 890-6993-3

Date Collected: 08/08/24 09:50

Matrix: Solid

Date Received: 08/08/24 14:49

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	88087	08/10/24 16:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88081	08/11/24 19:16	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88237	08/11/24 19:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			88193	08/11/24 02:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	87976	08/09/24 09:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88013	08/11/24 02:06	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	88093	08/11/24 10:22	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88146	08/12/24 13:43	CH	EET MID

Client Sample ID: HA-4

Lab Sample ID: 890-6993-4

Date Collected: 08/08/24 10:00

Matrix: Solid

Date Received: 08/08/24 14:49

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	88087	08/10/24 16:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88081	08/11/24 19:36	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88237	08/11/24 19:36	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6993-1
SDG: Lea County New Mexico

Client Sample ID: HA-4
Date Collected: 08/08/24 10:00
Date Received: 08/08/24 14:49

Lab Sample ID: 890-6993-4
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			88193	08/11/24 02:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	87976	08/09/24 09:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88013	08/11/24 02:35	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	88093	08/11/24 10:22	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88146	08/12/24 13:49	CH	EET MID

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

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- 2
- 3
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- 10
- 11
- 12
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- 14

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: The Contest CTB

Job ID: 890-6993-1
SDG: Lea County New Mexico

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: The Contest CTB

Job ID: 890-6993-1
SDG: Lea County New Mexico

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: The Contest CTB

Job ID: 890-6993-1
SDG: Lea County New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6993-1	HA-3	Solid	08/08/24 09:30	08/08/24 14:49
890-6993-2	HA-3	Solid	08/08/24 09:40	08/08/24 14:49
890-6993-3	HA-4	Solid	08/08/24 09:50	08/08/24 14:49
890-6993-4	HA-4	Solid	08/08/24 10:00	08/08/24 14:49

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- 2
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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)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
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: 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	SiO ₂	Na	Sr	Tl	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
0			2		
3			4		
5			6		

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-6993-1

SDG Number: Lea County New Mexico

Login Number: 6993

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: 890-6993-1
SDG Number: Lea County New Mexico

Login Number: 6993
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 08/09/24 09:09 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
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

THE CONTEST CTB
Lea County New Mexico

JOB NUMBER

890-6990-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization

Brianna Teel

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8/14/2024 5:19:36 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: THE CONTEST CTB

Laboratory Job ID: 890-6990-1
SDG: Lea County New Mexico

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	15
Lab Chronicle	17
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6990-1
SDG: Lea County New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high 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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*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
F1	MS and/or MSD recovery exceeds control limits.
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.
α	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: THE CONTEST CTB

Job ID: 890-6990-1

Job ID: 890-6990-1

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Job Narrative 890-6990-1

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 8/8/2024 2:34 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 -0.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 5 (890-6990-1), HA - 5 (890-6990-2) and HA - 5 (890-6990-3).

GC VOA

Method 8021B: The continuing calibration blank (CCB) for analytical batch 880-88085 contained Ethylbenzene above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-88064 and 880-88065 and analytical batch 880-88085 was outside the upper control limits.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-88065 and analytical batch 880-88085 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.

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-87921 and analytical batch 880-88019 was outside the upper control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-87921 and analytical batch 880-88019 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.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCSD 880-87921/3-A), (880-47007-A-46-D MS) and (880-47007-A-46-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-88019 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-88094 and analytical batch 880-88145 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was

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Case Narrative

Client: Earth Systems Response and Restoration
Project: THE CONTEST CTB

Job ID: 890-6990-1

Job ID: 890-6990-1 (Continued) **Eurofins Carlsbad**

within acceptance limits.

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: THE CONTEST CTB

Job ID: 890-6990-1
SDG: Lea County New Mexico

Client Sample ID: HA - 5

Lab Sample ID: 890-6990-1

Date Collected: 08/08/24 10:10

Matrix: Solid

Date Received: 08/08/24 14:34

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		08/09/24 16:06	08/11/24 12:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/09/24 16:06	08/11/24 12:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/09/24 16:06	08/11/24 12:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/09/24 16:06	08/11/24 12:01	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		08/09/24 16:06	08/11/24 12:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/09/24 16:06	08/11/24 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/09/24 16:06	08/11/24 12:01	1
1,4-Difluorobenzene (Surr)	119		70 - 130	08/09/24 16:06	08/11/24 12:01	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			08/11/24 12:01	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			08/09/24 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		08/08/24 14:18	08/09/24 21:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U ** *1	49.7		mg/Kg		08/08/24 14:18	08/09/24 21:57	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/08/24 14:18	08/09/24 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	08/08/24 14:18	08/09/24 21:57	1
o-Terphenyl	121		70 - 130	08/08/24 14:18	08/09/24 21:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		5.00		mg/Kg			08/14/24 16:45	1

Client Sample ID: HA - 5

Lab Sample ID: 890-6990-2

Date Collected: 08/08/24 10:20

Matrix: Solid

Date Received: 08/08/24 14:34

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		08/09/24 16:06	08/11/24 12:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:06	08/11/24 12:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:06	08/11/24 12:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/09/24 16:06	08/11/24 12:22	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		08/09/24 16:06	08/11/24 12:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/09/24 16:06	08/11/24 12:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/09/24 16:06	08/11/24 12:22	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6990-1
SDG: Lea County New Mexico

Client Sample ID: HA - 5

Lab Sample ID: 890-6990-2

Date Collected: 08/08/24 10:20

Matrix: Solid

Date Received: 08/08/24 14:34

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	112		70 - 130	08/09/24 16:06	08/11/24 12:22	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			08/11/24 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/09/24 22:14	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	<49.8	U *+ *1	49.8		mg/Kg		08/08/24 14:18	08/09/24 22:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U *+ *1	49.8		mg/Kg		08/08/24 14:18	08/09/24 22:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/24 14:18	08/09/24 22:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				08/08/24 14:18	08/09/24 22:14	1
o-Terphenyl	114		70 - 130				08/08/24 14:18	08/09/24 22:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		4.97		mg/Kg			08/14/24 16:51	1

Client Sample ID: HA - 5

Lab Sample ID: 890-6990-3

Date Collected: 08/08/24 10:30

Matrix: Solid

Date Received: 08/08/24 14:34

Sample Depth: 4'

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		08/09/24 16:06	08/11/24 12:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:06	08/11/24 12:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:06	08/11/24 12:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/09/24 16:06	08/11/24 12:42	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		08/09/24 16:06	08/11/24 12:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/09/24 16:06	08/11/24 12:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				08/09/24 16:06	08/11/24 12:42	1
1,4-Difluorobenzene (Surr)	114		70 - 130				08/09/24 16:06	08/11/24 12:42	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			08/11/24 12:42	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			08/09/24 22:31	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6990-1
SDG: Lea County New Mexico

Client Sample ID: HA - 5
Date Collected: 08/08/24 10:30
Date Received: 08/08/24 14:34
Sample Depth: 4'

Lab Sample ID: 890-6990-3
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	<49.8	U ** *1	49.8		mg/Kg		08/08/24 14:18	08/09/24 22:31	1	
Diesel Range Organics (Over C10-C28)	<49.8	U *+ *1	49.8		mg/Kg		08/08/24 14:18	08/09/24 22:31	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/24 14:18	08/09/24 22:31	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	119		70 - 130				08/08/24 14:18	08/09/24 22:31	1	
o-Terphenyl	121		70 - 130				08/08/24 14:18	08/09/24 22:31	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	47.8		4.95		mg/Kg			08/14/24 16:57	1	

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6990-1
SDG: Lea County New Mexico

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)
880-47095-A-81-C MS	Matrix Spike	108	104
880-47095-A-81-D MSD	Matrix Spike Duplicate	108	106
890-6990-1	HA - 5	116	119
890-6990-2	HA - 5	108	112
890-6990-3	HA - 5	111	114
LCS 880-88065/1-A	Lab Control Sample	105	105
LCSD 880-88065/2-A	Lab Control Sample Dup	102	103
MB 880-88064/5-A	Method Blank	187 S1+	144 S1+
MB 880-88065/5-A	Method Blank	202 S1+	157 S1+
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)
880-47007-A-46-D MS	Matrix Spike	125	141 S1+
880-47007-A-46-E MSD	Matrix Spike Duplicate	126	142 S1+
890-6990-1	HA - 5	117	121
890-6990-2	HA - 5	112	114
890-6990-3	HA - 5	119	121
LCS 880-87921/2-A	Lab Control Sample	170 S1+	196 S1+
LCSD 880-87921/3-A	Lab Control Sample Dup	119	133 S1+
MB 880-87921/1-A	Method Blank	267 S1+	277 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6990-1
SDG: Lea County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-88064/5-A
Matrix: Solid
Analysis Batch: 88085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88064

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:04	08/10/24 18:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:04	08/10/24 18:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:04	08/10/24 18:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/09/24 16:04	08/10/24 18:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:04	08/10/24 18:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/09/24 16:04	08/10/24 18:20	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	187	S1+	70 - 130				08/09/24 16:04	08/10/24 18:20	1
1,4-Difluorobenzene (Surr)	144	S1+	70 - 130				08/09/24 16:04	08/10/24 18:20	1

Lab Sample ID: MB 880-88065/5-A
Matrix: Solid
Analysis Batch: 88085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 88065

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:06	08/11/24 05:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:06	08/11/24 05:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:06	08/11/24 05:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/09/24 16:06	08/11/24 05:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:06	08/11/24 05:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/09/24 16:06	08/11/24 05:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	202	S1+	70 - 130				08/09/24 16:06	08/11/24 05:58	1
1,4-Difluorobenzene (Surr)	157	S1+	70 - 130				08/09/24 16:06	08/11/24 05:58	1

Lab Sample ID: LCS 880-88065/1-A
Matrix: Solid
Analysis Batch: 88085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 88065

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1215		mg/Kg		122	70 - 130
Toluene	0.100	0.1167		mg/Kg		117	70 - 130
Ethylbenzene	0.100	0.1027		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2390		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1384	*+	mg/Kg		138	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	105		70 - 130				
1,4-Difluorobenzene (Surr)	105		70 - 130				

Lab Sample ID: LCSD 880-88065/2-A
Matrix: Solid
Analysis Batch: 88085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 88065

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09685		mg/Kg		97	70 - 130	23	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6990-1
SDG: Lea County New Mexico

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

Lab Sample ID: LCSD 880-88065/2-A

Matrix: Solid

Analysis Batch: 88085

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 88065

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.09406		mg/Kg		94	70 - 130		21	35
Ethylbenzene	0.100	0.08732		mg/Kg		87	70 - 130		16	35
m-Xylene & p-Xylene	0.200	0.1926		mg/Kg		96	70 - 130		22	35
o-Xylene	0.100	0.1136		mg/Kg		114	70 - 130		20	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-47095-A-81-C MS

Matrix: Solid

Analysis Batch: 88085

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 88065

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00202	U	0.100	0.08665		mg/Kg		87	70 - 130	
Toluene	<0.00202	U	0.100	0.08440		mg/Kg		84	70 - 130	
Ethylbenzene	<0.00202	U	0.100	0.07864		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1960		mg/Kg		98	70 - 130	
o-Xylene	<0.00202	U *	0.100	0.1162		mg/Kg		116	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-47095-A-81-D MSD

Matrix: Solid

Analysis Batch: 88085

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 88065

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits			
Benzene	<0.00202	U	0.100	0.09010		mg/Kg		90	70 - 130		4	35
Toluene	<0.00202	U	0.100	0.08388		mg/Kg		84	70 - 130		1	35
Ethylbenzene	<0.00202	U	0.100	0.07392		mg/Kg		74	70 - 130		6	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1866		mg/Kg		93	70 - 130		5	35
o-Xylene	<0.00202	U *	0.100	0.1121		mg/Kg		112	70 - 130		4	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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

Lab Sample ID: MB 880-87921/1-A

Matrix: Solid

Analysis Batch: 88019

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87921

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/24 14:18	08/09/24 09:21	1

Eurofins Carlsbad

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6990-1
SDG: Lea County New Mexico

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

Lab Sample ID: MB 880-87921/1-A

Matrix: Solid

Analysis Batch: 88019

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 87921

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/24 14:18	08/09/24 09:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/24 14:18	08/09/24 09:21	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	267	S1+	70 - 130				08/08/24 14:18	08/09/24 09:21	1
o-Terphenyl	277	S1+	70 - 130				08/08/24 14:18	08/09/24 09:21	1

Lab Sample ID: LCS 880-87921/2-A

Matrix: Solid

Analysis Batch: 88019

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 87921

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1500	*+	mg/Kg		150	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1791	*+	mg/Kg		179	70 - 130		
Surrogate	LCS	LCS	Limits						
1-Chlorooctane	170	S1+	70 - 130						
o-Terphenyl	196	S1+	70 - 130						

Lab Sample ID: LCSD 880-87921/3-A

Matrix: Solid

Analysis Batch: 88019

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 87921

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1115	*1	mg/Kg		111	70 - 130	29	20
Diesel Range Organics (Over C10-C28)	1000	1243	*1	mg/Kg		124	70 - 130	36	20
Surrogate	LCSD	LCSD	Limits						
1-Chlorooctane	119		70 - 130						
o-Terphenyl	133	S1+	70 - 130						

Lab Sample ID: 880-47007-A-46-D MS

Matrix: Solid

Analysis Batch: 88019

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 87921

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier									
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+ *1	992	1056		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)	92.6	*+ *1	992	1202		mg/Kg		112	70 - 130		
Surrogate	MS	MS	Limits								
1-Chlorooctane	125		70 - 130								
o-Terphenyl	141	S1+	70 - 130								

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6990-1
SDG: Lea County New Mexico

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

Lab Sample ID: 880-47007-A-46-E MSD

Matrix: Solid

Analysis Batch: 88019

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 87921

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 *+ *1	992	1067		mg/Kg		108	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	92.6	*+ *1	992	1206		mg/Kg		112	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	126		70 - 130								
o-Terphenyl	142	S1+	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-88094/1-A

Matrix: Solid

Analysis Batch: 88145

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/14/24 14:20	1

Lab Sample ID: LCS 880-88094/2-A

Matrix: Solid

Analysis Batch: 88145

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	251.5		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-88094/3-A

Matrix: Solid

Analysis Batch: 88145

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	251.6		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-47070-A-4-B MS

Matrix: Solid

Analysis Batch: 88145

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6920	F1	5040	13830	F1	mg/Kg		137	90 - 110

Lab Sample ID: 880-47070-A-4-C MSD

Matrix: Solid

Analysis Batch: 88145

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6920	F1	5040	13830	F1	mg/Kg		137	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6990-1
SDG: Lea County New Mexico

GC VOA

Prep Batch: 88064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-88064/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 88065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6990-1	HA - 5	Total/NA	Solid	5035	
890-6990-2	HA - 5	Total/NA	Solid	5035	
890-6990-3	HA - 5	Total/NA	Solid	5035	
MB 880-88065/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88065/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88065/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47095-A-81-C MS	Matrix Spike	Total/NA	Solid	5035	
880-47095-A-81-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 88085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6990-1	HA - 5	Total/NA	Solid	8021B	88065
890-6990-2	HA - 5	Total/NA	Solid	8021B	88065
890-6990-3	HA - 5	Total/NA	Solid	8021B	88065
MB 880-88064/5-A	Method Blank	Total/NA	Solid	8021B	88064
MB 880-88065/5-A	Method Blank	Total/NA	Solid	8021B	88065
LCS 880-88065/1-A	Lab Control Sample	Total/NA	Solid	8021B	88065
LCSD 880-88065/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88065
880-47095-A-81-C MS	Matrix Spike	Total/NA	Solid	8021B	88065
880-47095-A-81-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	88065

Analysis Batch: 88210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6990-1	HA - 5	Total/NA	Solid	Total BTEX	
890-6990-2	HA - 5	Total/NA	Solid	Total BTEX	
890-6990-3	HA - 5	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6990-1	HA - 5	Total/NA	Solid	8015NM Prep	
890-6990-2	HA - 5	Total/NA	Solid	8015NM Prep	
890-6990-3	HA - 5	Total/NA	Solid	8015NM Prep	
MB 880-87921/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87921/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87921/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-47007-A-46-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-47007-A-46-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 88019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6990-1	HA - 5	Total/NA	Solid	8015B NM	87921
890-6990-2	HA - 5	Total/NA	Solid	8015B NM	87921
890-6990-3	HA - 5	Total/NA	Solid	8015B NM	87921
MB 880-87921/1-A	Method Blank	Total/NA	Solid	8015B NM	87921
LCS 880-87921/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87921

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6990-1
SDG: Lea County New Mexico

GC Semi VOA (Continued)

Analysis Batch: 88019 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-87921/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87921
880-47007-A-46-D MS	Matrix Spike	Total/NA	Solid	8015B NM	87921
880-47007-A-46-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87921

Analysis Batch: 88120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6990-1	HA - 5	Total/NA	Solid	8015 NM	
890-6990-2	HA - 5	Total/NA	Solid	8015 NM	
890-6990-3	HA - 5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 88094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6990-1	HA - 5	Soluble	Solid	DI Leach	
890-6990-2	HA - 5	Soluble	Solid	DI Leach	
890-6990-3	HA - 5	Soluble	Solid	DI Leach	
MB 880-88094/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-88094/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-88094/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47070-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-47070-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 88145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6990-1	HA - 5	Soluble	Solid	300.0	88094
890-6990-2	HA - 5	Soluble	Solid	300.0	88094
890-6990-3	HA - 5	Soluble	Solid	300.0	88094
MB 880-88094/1-A	Method Blank	Soluble	Solid	300.0	88094
LCS 880-88094/2-A	Lab Control Sample	Soluble	Solid	300.0	88094
LCSD 880-88094/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	88094
880-47070-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	88094
880-47070-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	88094

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6990-1
SDG: Lea County New Mexico

Client Sample ID: HA - 5
Date Collected: 08/08/24 10:10
Date Received: 08/08/24 14:34

Lab Sample ID: 890-6990-1
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			4.98 g	5 mL	88065	08/09/24 16:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88085	08/11/24 12:01	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88210	08/11/24 12:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			88120	08/09/24 21:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	87921	08/08/24 14:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88019	08/09/24 21:57	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	88094	08/11/24 10:26	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88145	08/14/24 16:45	CH	EET MID

Client Sample ID: HA - 5
Date Collected: 08/08/24 10:20
Date Received: 08/08/24 14:34

Lab Sample ID: 890-6990-2
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			5.01 g	5 mL	88065	08/09/24 16:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88085	08/11/24 12:22	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88210	08/11/24 12:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			88120	08/09/24 22:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87921	08/08/24 14:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88019	08/09/24 22:14	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	88094	08/11/24 10:26	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88145	08/14/24 16:51	CH	EET MID

Client Sample ID: HA - 5
Date Collected: 08/08/24 10:30
Date Received: 08/08/24 14:34

Lab Sample ID: 890-6990-3
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			5.00 g	5 mL	88065	08/09/24 16:06	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88085	08/11/24 12:42	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88210	08/11/24 12:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			88120	08/09/24 22:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87921	08/08/24 14:18	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88019	08/09/24 22:31	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	88094	08/11/24 10:26	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88145	08/14/24 16:57	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: THE CONTEST CTB

Job ID: 890-6990-1
SDG: Lea County New Mexico

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6990-1
SDG: Lea County New Mexico

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: THE CONTEST CTB

Job ID: 890-6990-1
SDG: Lea County New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6990-1	HA - 5	Solid	08/08/24 10:10	08/08/24 14:34	0.5'
890-6990-2	HA - 5	Solid	08/08/24 10:20	08/08/24 14:34	1'
890-6990-3	HA - 5	Solid	08/08/24 10:30	08/08/24 14:34	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) 902-030
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-12
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-31



890-6990 Chain of Custody

Page 1 of 1

8/14/2024

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

Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:		The Contest CTB		Turn Around		Pres. Code	ANALYSIS REQUEST																Preservative Codes		
Project Number:		2288		☒ Routine ☐ Rush			Parameters																	None: NO DI Water: H ₂ O	
Project Location:		Lea County, NM		Due Date: 5 day TAT																				Cool: Cool MeOH: Me	
Sampler's Name:		Gilbert Moreno		TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC HNO ₃ : HN	
PO #:						Parameters																	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 Intact:		Yes No		Thermometer ID: TMM007																			NaHSO ₄ : NABIS		
Cooler Custody Seals:		Yes No N/A		Correction Factor: -0.2																			Na ₂ S ₂ O ₃ : NaSO ₃		
Sample Custody Seals:		Yes No N/A		Temperature Reading: -1.0		Parameters																	Zn Acetate+NaOH: Zn		
Total Containers:				Corrected Temperature: -1.8																			NaOH+Ascorbic Acid: SAPC		
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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-6990-1

SDG Number: Lea County New Mexico

Login Number: 6990

List Number: 1

Creator: Bruns, Shannon

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: 890-6990-1
SDG Number: Lea County New Mexico

Login Number: 6990
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 08/09/24 09:09 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
- 5
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- 9
- 10
- 11
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- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/13/2024 1:03:47 PM

JOB DESCRIPTION

THE CONTEST CTB
2288

JOB NUMBER

890-6994-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



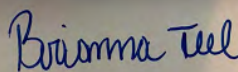
Eurofins Carlsbad

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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Authorized for release by
Brianna Teel, Project Manager
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Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Laboratory Job ID: 890-6994-1
SDG: 2288

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6994-1
SDG: 2288

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high 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: THE CONTEST CTB

Job ID: 890-6994-1

Job ID: 890-6994-1

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Job Narrative 890-6994-1

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 8/8/2024 2:34 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 -0.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW - 16 (890-6994-1) and SW - 17 (890-6994-2).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-47036-A-1-C MS). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-88066 and analytical batch 880-88136 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.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-88136 recovered above the upper control limit for m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-88136/20).

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 surrogate recovery for the blank associated with preparation batch 880-87976 and analytical batch 880-88013 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-87976/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW - 17 (890-6994-2). 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

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: THE CONTEST CTB

Job ID: 890-6994-1
SDG: 2288

Client Sample ID: SW - 16

Lab Sample ID: 890-6994-1

Date Collected: 08/08/24 11:30

Matrix: Solid

Date Received: 08/08/24 14:34

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		08/09/24 16:10	08/12/24 19:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:10	08/12/24 19:33	1
Ethylbenzene	<0.00200	U **	0.00200		mg/Kg		08/09/24 16:10	08/12/24 19:33	1
m-Xylene & p-Xylene	<0.00400	U **	0.00400		mg/Kg		08/09/24 16:10	08/12/24 19:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:10	08/12/24 19:33	1
Xylenes, Total	<0.00400	U **	0.00400		mg/Kg		08/09/24 16:10	08/12/24 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/09/24 16:10	08/12/24 19:33	1
1,4-Difluorobenzene (Surr)	83		70 - 130	08/09/24 16:10	08/12/24 19:33	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			08/12/24 19:33	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			08/11/24 02:50	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		08/09/24 09:21	08/11/24 02:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/09/24 09:21	08/11/24 02:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/09/24 09:21	08/11/24 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/09/24 09:21	08/11/24 02:50	1
o-Terphenyl	86		70 - 130	08/09/24 09:21	08/11/24 02:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		5.01		mg/Kg			08/12/24 13:55	1

Client Sample ID: SW - 17

Lab Sample ID: 890-6994-2

Date Collected: 08/08/24 11:40

Matrix: Solid

Date Received: 08/08/24 14:34

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		08/09/24 16:10	08/12/24 19:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/09/24 16:10	08/12/24 19:54	1
Ethylbenzene	<0.00201	U **	0.00201		mg/Kg		08/09/24 16:10	08/12/24 19:54	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402		mg/Kg		08/09/24 16:10	08/12/24 19:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/09/24 16:10	08/12/24 19:54	1
Xylenes, Total	<0.00402	U **	0.00402		mg/Kg		08/09/24 16:10	08/12/24 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	08/09/24 16:10	08/12/24 19:54	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/09/24 16:10	08/12/24 19:54	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6994-1
SDG: 2288

Client Sample ID: SW - 17
Date Collected: 08/08/24 11:40
Date Received: 08/08/24 14:34

Lab Sample ID: 890-6994-2
Matrix: Solid

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			08/12/24 19:54	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			08/11/24 03:04	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		08/09/24 09:21	08/11/24 03:04	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/09/24 09:21	08/11/24 03:04	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/09/24 09:21	08/11/24 03:04	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	77		70 - 130				08/09/24 09:21	08/11/24 03:04	1	
o-Terphenyl	69	S1-	70 - 130				08/09/24 09:21	08/11/24 03:04	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	14.3		4.96		mg/Kg			08/12/24 14:01	1	

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6994-1
SDG: 2288

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)
880-47036-A-1-C MS	Matrix Spike	135 S1+	98
880-47036-A-1-D MSD	Matrix Spike Duplicate	119	115
890-6994-1	SW - 16	105	83
890-6994-2	SW - 17	103	88
LCS 880-88066/1-A	Lab Control Sample	113	94
LCSD 880-88066/2-A	Lab Control Sample Dup	120	97
MB 880-88066/5-A	Method Blank	82	95
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-6992-A-1-B MS	Matrix Spike	100	83
890-6992-A-1-C MSD	Matrix Spike Duplicate	109	90
890-6994-1	SW - 16	96	86
890-6994-2	SW - 17	77	69 S1-
LCS 880-87976/2-A	Lab Control Sample	137 S1+	115
LCSD 880-87976/3-A	Lab Control Sample Dup	119	98
MB 880-87976/1-A	Method Blank	170 S1+	161 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6994-1
SDG: 2288

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-88066/5-A							Client Sample ID: Method Blank			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 88136							Prep Batch: 88066			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:10	08/12/24 11:53	1	
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:10	08/12/24 11:53	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:10	08/12/24 11:53	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/09/24 16:10	08/12/24 11:53	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/09/24 16:10	08/12/24 11:53	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/09/24 16:10	08/12/24 11:53	1	
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	82		70 - 130				08/09/24 16:10	08/12/24 11:53	1	
1,4-Difluorobenzene (Surr)	95		70 - 130				08/09/24 16:10	08/12/24 11:53	1	

Lab Sample ID: LCS 880-88066/1-A						Client Sample ID: Lab Control Sample								
Matrix: Solid						Prep Type: Total/NA								
Analysis Batch: 88136						Prep Batch: 88066								
Analyte	Spike			LCS	LCS	Unit	D	%Rec	%Rec	Limits				
	Added			Result	Qualifier									
	Benzene			0.100	0.1018						mg/Kg	102	70 - 130	
	Toluene			0.100	0.1077						mg/Kg	108	70 - 130	
	Ethylbenzene			0.100	0.1330						*+	mg/Kg	133	70 - 130
	m-Xylene & p-Xylene			0.200	0.2620						*+	mg/Kg	131	70 - 130
	o-Xylene			0.100	0.1260						mg/Kg	126	70 - 130	
LCS LCS														
Surrogate	%Recovery		Qualifier	Limits										
4-Bromofluorobenzene (Surr)				11370 - 130										
1,4-Difluorobenzene (Surr)				9470 - 130										

Lab Sample ID: LCSD 880-88066/2-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 88136							Prep Batch: 88066			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.1016		mg/Kg		102	70 - 130	0	35
Toluene		0.100	0.09871		mg/Kg		99	70 - 130	9	35
Ethylbenzene		0.100	0.1328	*+	mg/Kg		133	70 - 130	0	35
m-Xylene & p-Xylene		0.200	0.2685	*+	mg/Kg		134	70 - 130	2	35
o-Xylene		0.100	0.1293		mg/Kg		129	70 - 130	3	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	120		70 - 130							
1,4-Difluorobenzene (Surr)	97		70 - 130							

Lab Sample ID: 880-47036-A-1-C MS							Client Sample ID: Matrix Spike			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 88136							Prep Batch: 88066			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	<0.00202	U	0.100	0.08506		mg/Kg		85	70 - 130	
Toluene	<0.00202	U	0.100	0.08278		mg/Kg		83	70 - 130	

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6994-1
SDG: 2288

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

Lab Sample ID: 880-47036-A-1-C MS
Matrix: Solid
Analysis Batch: 88136

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 88066

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U *	0.100	0.09831		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	<0.00404	U *	0.200	0.1808		mg/Kg		90	70 - 130
o-Xylene	<0.00202	U	0.100	0.1125		mg/Kg		113	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130						
1,4-Difluorobenzene (Surr)	98		70 - 130						

Lab Sample ID: 880-47036-A-1-D MSD
Matrix: Solid
Analysis Batch: 88136

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 88066

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.07497		mg/Kg		75	70 - 130	13	35
Toluene	<0.00202	U	0.100	0.07829		mg/Kg		78	70 - 130	6	35
Ethylbenzene	<0.00202	U *	0.100	0.09372		mg/Kg		94	70 - 130	5	35
m-Xylene & p-Xylene	<0.00404	U *	0.200	0.1732		mg/Kg		87	70 - 130	4	35
o-Xylene	<0.00202	U	0.100	0.09427		mg/Kg		94	70 - 130	18	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	119		70 - 130								
1,4-Difluorobenzene (Surr)	115		70 - 130								

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

Lab Sample ID: MB 880-87976/1-A
Matrix: Solid
Analysis Batch: 88013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 87976

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		08/09/24 09:21	08/10/24 17:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/09/24 09:21	08/10/24 17:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/09/24 09:21	08/10/24 17:24	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	170	S1+	70 - 130						
o-Terphenyl	161	S1+	70 - 130						

Lab Sample ID: LCS 880-87976/2-A
Matrix: Solid
Analysis Batch: 88013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1091		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1161		mg/Kg		116	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6994-1
SDG: 2288

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

Lab Sample ID: LCS 880-87976/2-A
Matrix: Solid
Analysis Batch: 88013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 87976

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	137	S1+	70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: LCSD 880-87976/3-A
Matrix: Solid
Analysis Batch: 88013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 87976

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1019		mg/Kg		102	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	986.7		mg/Kg		99	70 - 130	16	20
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits					
1-Chlorooctane		119		70 - 130					
o-Terphenyl		98		70 - 130					

Lab Sample ID: 890-6992-A-1-B MS
Matrix: Solid
Analysis Batch: 88013

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 87976

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	997	933.4		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	837.1		mg/Kg		84	70 - 130		
Surrogate		MS %Recovery	MS Qualifier	Limits							
1-Chlorooctane		100		70 - 130							
o-Terphenyl		83		70 - 130							

Lab Sample ID: 890-6992-A-1-C MSD
Matrix: Solid
Analysis Batch: 88013

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 87976

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	997	1024		mg/Kg		103	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	874.2		mg/Kg		88	70 - 130	4	20
Surrogate		MSD %Recovery	MSD Qualifier	Limits							
1-Chlorooctane		109		70 - 130							
o-Terphenyl		90		70 - 130							

Eurofins Carlsbad

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6994-1
SDG: 2288

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-88093/1-A Matrix: Solid Analysis Batch: 88146										Client Sample ID: Method Blank Prep Type: Soluble	
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00		mg/Kg			08/12/24 11:00	1		

Lab Sample ID: LCS 880-88093/2-A Matrix: Solid Analysis Batch: 88146										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	252.7		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-88093/3-A Matrix: Solid Analysis Batch: 88146										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	253.2		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-47096-A-1-C MS Matrix: Solid Analysis Batch: 88146										Client Sample ID: Matrix Spike Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	23.4		253	278.5		mg/Kg		101	90 - 110		

Lab Sample ID: 880-47096-A-1-D MSD Matrix: Solid Analysis Batch: 88146										Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble	
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	23.4		253	278.6		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6994-1
SDG: 2288

GC VOA

Prep Batch: 88066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6994-1	SW - 16	Total/NA	Solid	5035	
890-6994-2	SW - 17	Total/NA	Solid	5035	
MB 880-88066/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-88066/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-88066/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-47036-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-47036-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 88136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6994-1	SW - 16	Total/NA	Solid	8021B	88066
890-6994-2	SW - 17	Total/NA	Solid	8021B	88066
MB 880-88066/5-A	Method Blank	Total/NA	Solid	8021B	88066
LCS 880-88066/1-A	Lab Control Sample	Total/NA	Solid	8021B	88066
LCSD 880-88066/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	88066
880-47036-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	88066
880-47036-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	88066

Analysis Batch: 88317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6994-1	SW - 16	Total/NA	Solid	Total BTEX	
890-6994-2	SW - 17	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 87976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6994-1	SW - 16	Total/NA	Solid	8015NM Prep	
890-6994-2	SW - 17	Total/NA	Solid	8015NM Prep	
MB 880-87976/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-87976/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-87976/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6992-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6992-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 88013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6994-1	SW - 16	Total/NA	Solid	8015B NM	87976
890-6994-2	SW - 17	Total/NA	Solid	8015B NM	87976
MB 880-87976/1-A	Method Blank	Total/NA	Solid	8015B NM	87976
LCS 880-87976/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	87976
LCSD 880-87976/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	87976
890-6992-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	87976
890-6992-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	87976

Analysis Batch: 88194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6994-1	SW - 16	Total/NA	Solid	8015 NM	
890-6994-2	SW - 17	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6994-1
SDG: 2288

HPLC/IC

Leach Batch: 88093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6994-1	SW - 16	Soluble	Solid	DI Leach	
890-6994-2	SW - 17	Soluble	Solid	DI Leach	
MB 880-88093/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-88093/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-88093/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-47096-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-47096-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 88146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6994-1	SW - 16	Soluble	Solid	300.0	88093
890-6994-2	SW - 17	Soluble	Solid	300.0	88093
MB 880-88093/1-A	Method Blank	Soluble	Solid	300.0	88093
LCS 880-88093/2-A	Lab Control Sample	Soluble	Solid	300.0	88093
LCSD 880-88093/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	88093
880-47096-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	88093
880-47096-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	88093

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: THE CONTEST CTB

Job ID: 890-6994-1
SDG: 2288

Client Sample ID: SW - 16

Lab Sample ID: 890-6994-1

Date Collected: 08/08/24 11:30

Matrix: Solid

Date Received: 08/08/24 14:34

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	88066	08/09/24 16:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88136	08/12/24 19:33	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88317	08/12/24 19:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			88194	08/11/24 02:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	87976	08/09/24 09:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88013	08/11/24 02:50	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	88093	08/11/24 10:22	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88146	08/12/24 13:55	CH	EET MID

Client Sample ID: SW - 17

Lab Sample ID: 890-6994-2

Date Collected: 08/08/24 11:40

Matrix: Solid

Date Received: 08/08/24 14:34

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	88066	08/09/24 16:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	88136	08/12/24 19:54	EL	EET MID
Total/NA	Analysis	Total BTEX		1			88317	08/12/24 19:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			88194	08/11/24 03:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	87976	08/09/24 09:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	88013	08/11/24 03:04	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	88093	08/11/24 10:22	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	88146	08/12/24 14:01	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: THE CONTEST CTB

Job ID: 890-6994-1
SDG: 2288

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: THE CONTEST CTB

Job ID: 890-6994-1
SDG: 2288

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: THE CONTEST CTB

Job ID: 890-6994-1
SDG: 2288

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6994-1	SW - 16	Solid	08/08/24 11:30	08/08/24 14:34
890-6994-2	SW - 17	Solid	08/08/24 11:40	08/08/24 14:34

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Revised Date: 08/25/2020 Rev. 2020 2

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-6994-1
SDG Number: 2288

Login Number: 6994
List Number: 1
Creator: Bruns, Shannon

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: 890-6994-1

SDG Number: 2288

Login Number: 6994

List Number: 2

Creator: Vasquez, Julisa

List Source: Eurofins Midland

List Creation: 08/09/24 09:09 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	

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

QUESTIONS

Action 381846

QUESTIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 381846
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2327037534
Incident Name	NAPP2327037534 THE CONTEST FEDERAL CTB @ 30-025-46673
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-46673] THE CONTEST FEDERAL COM #131H
Incident Facility	[fAPP2126033053] THE CONTEST CTB

Location of Release Source

Please answer all the questions in this group.

Site Name	THE CONTEST FEDERAL CTB
Date Release Discovered	09/19/2023
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 207 BBL Recovered: 200 BBL Lost: 7 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)	Not answered.

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QUESTIONS, Page 2

Action 381846

QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 381846
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Luke Kelly Title: Manager, Environmental Regulatory Compliance Email: lkelly@civiresources.com Date: 09/09/2024
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QUESTIONS, Page 3

Action 381846

QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 381846
	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	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	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)	186
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	67.7
GRO+DRO (EPA SW-846 Method 8015M)	67.7
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0.5
<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	01/01/2024
On what date will (or did) the final sampling or liner inspection occur	08/08/2024
On what date will (or was) the remediation complete(d)	08/08/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
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	12500
What is the estimated volume (in cubic yards) that will be remediated	2100
<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 381846

QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID:
	332195
	Action Number:
	381846
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

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:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	TARGA NORTHERN DELAWARE, LLC. [fAPP2123031392]
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: Luke Kelly Title: Manager, Environmental Regulatory Compliance Email: lkelly@civiresources.com Date: 09/09/2024
<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>	

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, Page 5

Action 381846

QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 381846
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 381846

QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 381846
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	369420
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/08/2024
What was the (estimated) number of samples that were to be gathered	70
What was the sampling surface area in square feet	10553

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	12500
What was the total volume (cubic yards) remediated	2100
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)	No additional remediation activities required. Lab analytical results for all final confirmation sampling meet Site Closure Criteria and reclamation standards. Area will be reclaimed when facility is deconstructed.

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

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

I hereby agree and sign off to the above statement	Name: Luke Kelly Title: Manager, Environmental Regulatory Compliance Email: lkelly@civiresources.com Date: 09/09/2024
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QUESTIONS, Page 7

Action 381846

QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 381846
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 381846

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 381846
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	11/14/2024