



April 21, 2025

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

RE: **Talco Federal #222H - Closure Request Report**
Incident Number: nAPP2315048206
GPS: 32.049193°, -103.37681°
Lea County, NM
ESRR Project No. 2296/ VP-17603

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, Talco Federal #222H (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 Site is located in Unit D, Section 16, Township 26 South, Range 35 East, in Lea County, New Mexico (32.049193°, -103.37681°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1**).

On May 27, 2023, a leak on a buried flowline occurred, causing the release of approximately 12 barrels (bbls) of produced water onto the overlying production pad surface (**Figure 2**). Immediate notice was given to the New Mexico Oil Conservation Division (NMOCD) on May 27, 2023, by Notification of Release (NOR) followed by a Corrective Action Form C-141 (Form C-141) on May 30, 2023. The release was subsequently assigned Incident Number nAPP2315048206.

Background

During May 2023, a Tap Rock contracted third-party consultant was reported by Civitas to have completed initial Site assessment activities at the Site.

On August 2, 2023, the third-party consultant requested an extension to the due date. NMOCD approved the request and updated the due date to September 25, 2023.

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 deemed necessary for closure of this incident.

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On April 14, 2025, Civitas requested an additional extension to the past due deadline in order to get back in compliance prior to submitting this CRR. NMOCD approved the request on April 16, 2025, and updated the due date to May 16, 2025.

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 Between 1 and 5 miles of any continuously flowing watercourse or any other significant watercourse;
- o Between 1 and 5 miles of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- o Between 1 and 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 Between 1 and 5 miles of any other freshwater well or spring;
- o Between 1 and 5 miles of any incorporated municipal boundary or a defined municipal fresh water well field covered under a municipal ordinance;
- o Between 1,000 feet and ½ mile 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 1A** and **Figure 1B**. **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 miles 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

Delineation Activities

During October 2024, ESRR conducted delineation activities to assess the presence or absence of residual soil impacts associated with the Area of Concern (AOC) determined by referencing Civitas provided photographs. Eighteen delineation boreholes (HA-1 through HA-18) were advanced via hand auger within and surrounding the estimated AOC. Delineation activities were driven by field screening soil for chloride utilizing QuanTab® test strips. A minimum of one soil sample was collected from each delineation borehole, representing the highest observed field screening concentrations and/ or the greatest depth. Delineation soil samples were placed directly into clean laboratory-provided jars, packed with minimal void space, labeled, and placed on ice. The delineation soil samples were transported under strict chain-

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of-custody procedures, to Eurofins in Carlsbad, New Mexico, for analysis of the COCs. **Photographic Documentation** of all activities are attached.

Laboratory analytical results for soil samples collected within and surrounding the AOC (HA-4, HA-6, HA-8, HA-13 through HA-18) were compliant with Site Closure Criteria and/or the reclamation standard defining the horizontal periphery of the AOC.

Laboratory analytical results for delineation soil samples (HA-1 through HA-3, HA-5, HA-7, HA-9 through HA-12), collected within and surrounding the AOC, indicated Total TPH and/ or Chloride were above the Site Closure Criteria and/or the reclamation standard up to 2 feet bgs. The elevated TPH concentrations, specifically for TPH-DRO, are characterized by concentrations ranging from 107 to 917 mg/kg. Elevated Chloride concentrations are characterized by concentrations ranging from 651 to 2,750 mg/kg. Laboratory results are summarized in **Table 1**, included in the attachments. The locations of all delineation soil samples are shown in **Figure 2**.

Remediation Activities

During March 2025, ESRR completed excavation activities of identified impacts performed via mechanical equipment based on laboratory analytical results associated with delineation soil sampling activities and visual observation by ESRR. The excavation was vertically advanced to approximate depths ranging from 1 to 2 feet bgs.

Following the removal of soil, ESRR collected 5-point composite soil samples at a sampling frequency of 200 square feet from the excavation floor (CS-1 through CS-11) and sidewalls (SW-1 through SW-4). 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 handled, transported, and analyzed as previously described.

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

Approximately 200 cubic yards (CY) of impacted soil was removed from the Site and transported to R360 Antelope Draw 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. The final soil cover was contoured to match the Site's pre-existing grade to prevent ponding of water and erosion.

Closure Request

Based on laboratory analytical results, impacts associated with the inadvertent release have been delineated, excavated and removed from the Site in accordance with Site Closure Criteria. 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. As such, NFA appears warranted at this time, and Civitas respectfully requests Closure of this CRR associated with Incident Number nAPP2315048206.

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

Sincerely,

EARTH SYSTEMS RESPONSE & RESTORATION

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

Gilbert Moreno
Carlsbad Operations Manager-Project Geologist

cc: Luke Kelly, Civitas Resources
Mason Jones, Civitas Resources
Bureau of Land Management

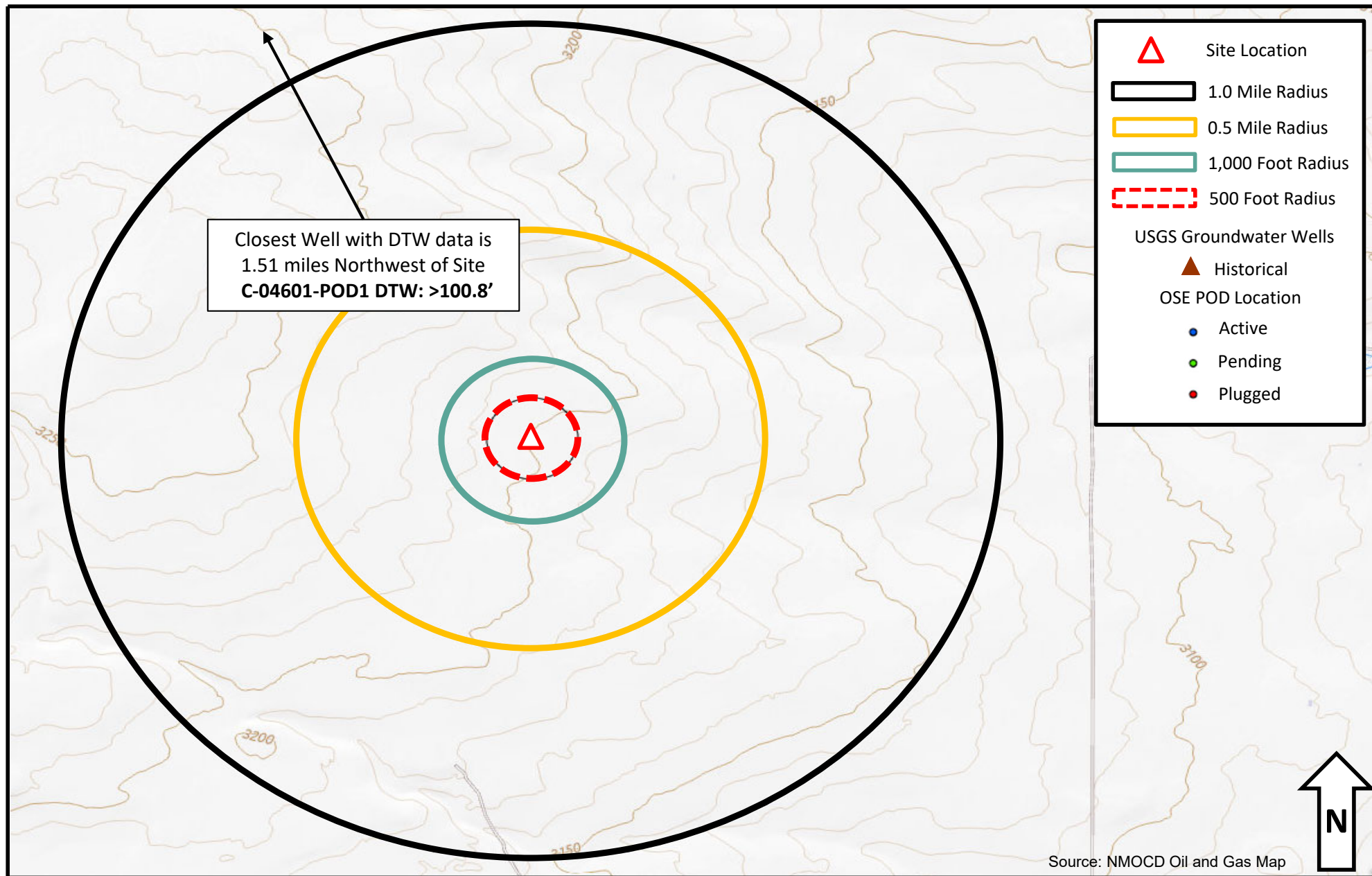
Attachments:

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



Figure 1 – Site Map

Civitas Resources - Talco Federal #222H
GPS: 32.049193°, -103.376810°
Lea County, New Mexico

**Figure 1A – Ground Water**

Civitas Resources - Talco Federal #222H
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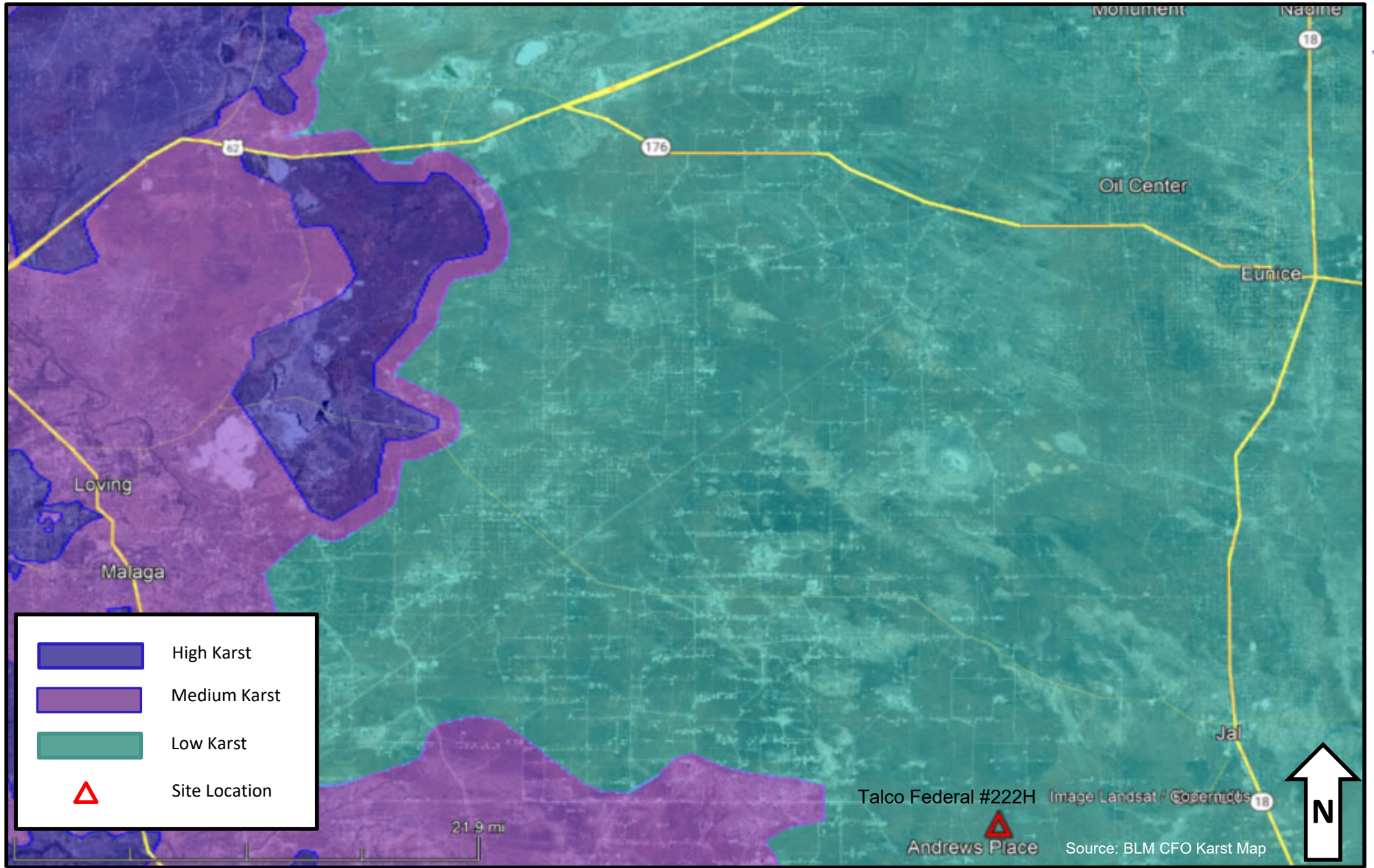
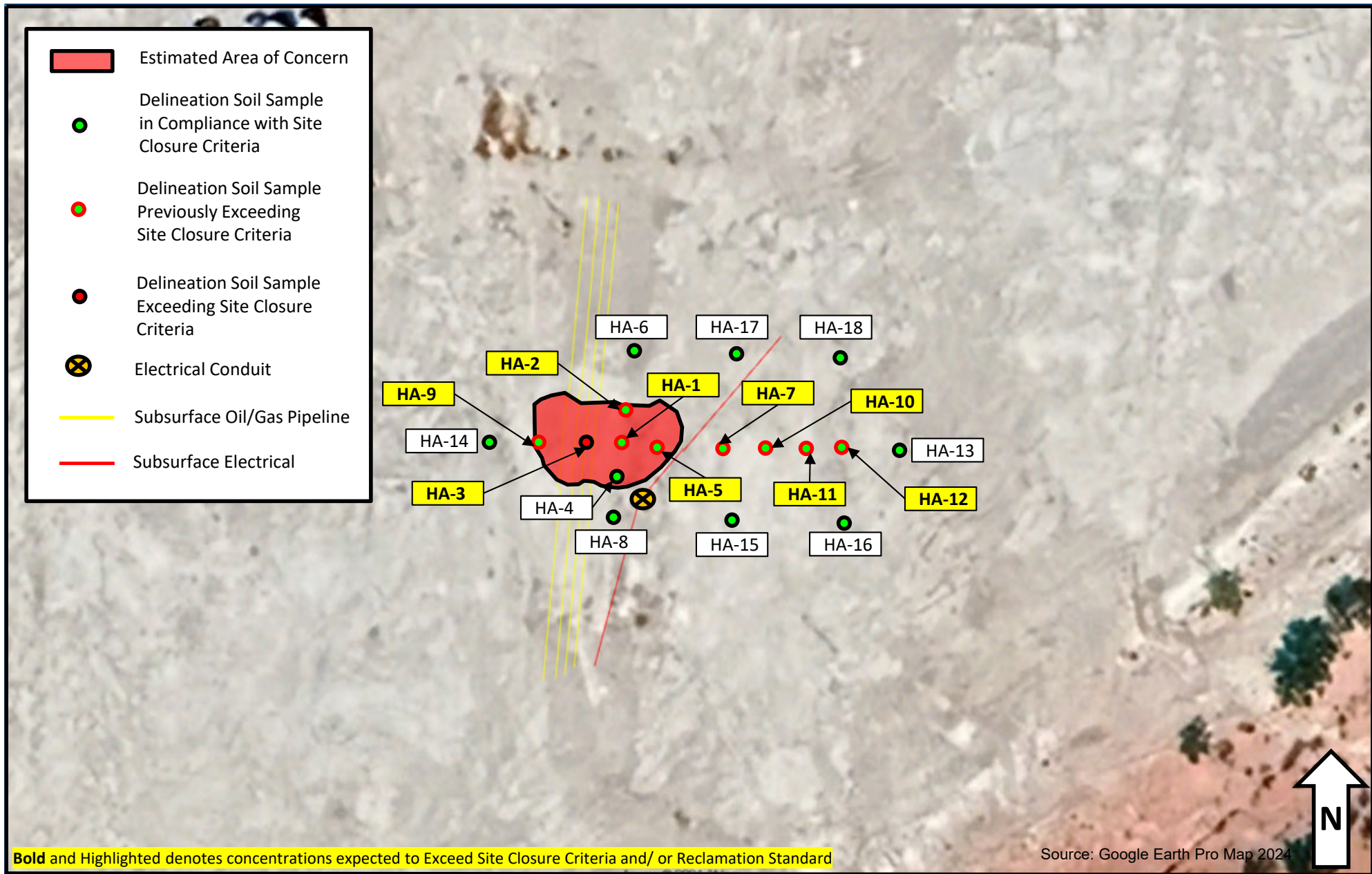
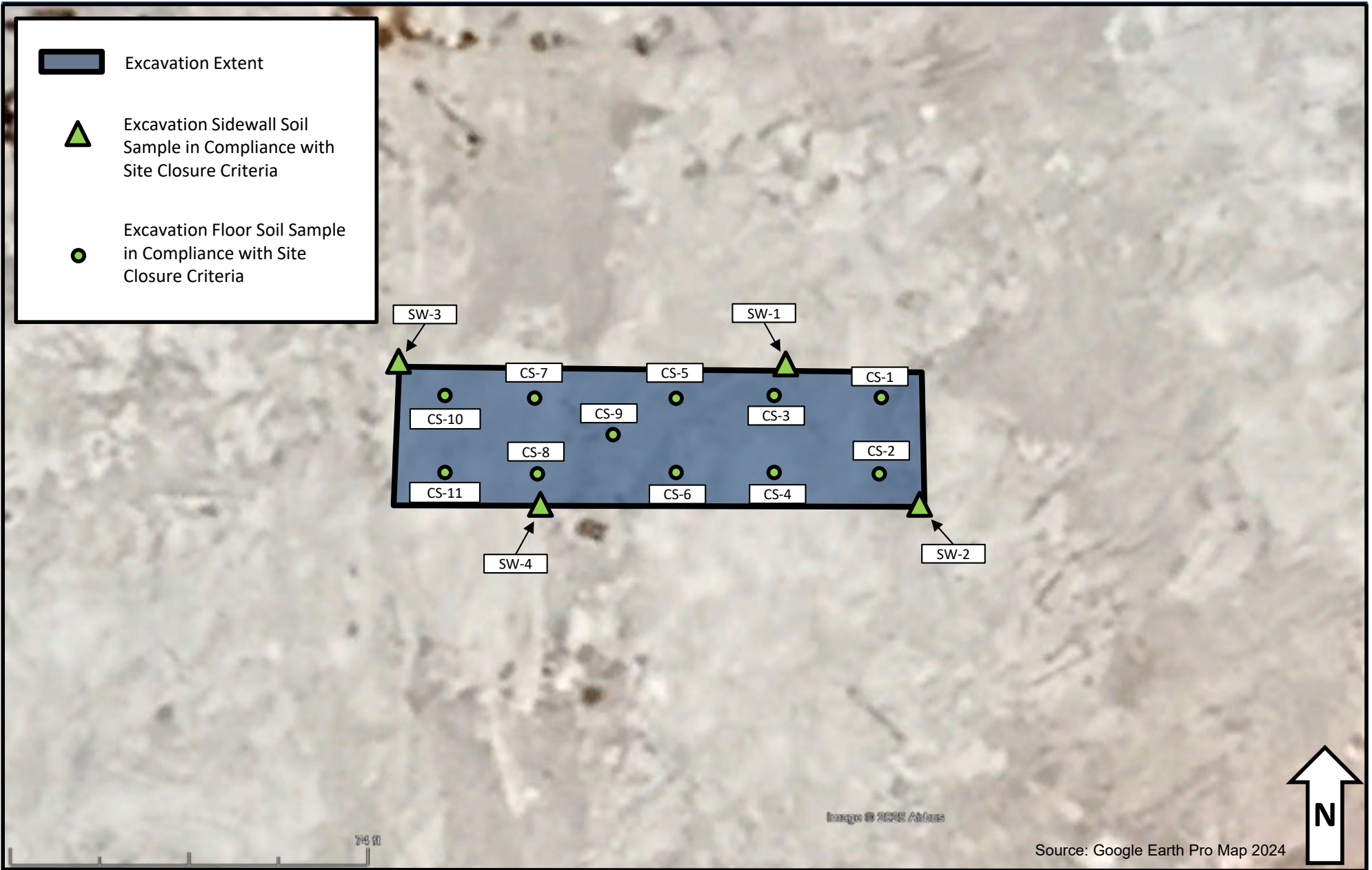


Figure 1B – Karst Potential

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Lea County, New Mexico







WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE 0114-2022-00000

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (TW-1)		WELL TAG ID NO.		OSE FILE NO(S). C-4601		
	WELL OWNER NAME(S) Marathon Oil				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS 4111 S Tidwell Rd.				CITY Carlsbad	STATE NM	ZIP 88220
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 32	SECONDS 3	58	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LONGITUDE	103	23	33		N W
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE SE Sw Sec. 05 T26S R35E							

2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins		NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 3/31/2022	DRILLING ENDED 3/31/2022	DEPTH OF COMPLETED WELL (FT) temporary well	BORE HOLE DEPTH (FT) ±100.8	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
	COMPLETED WELL IS: ☐ ARTESIAN ☒ DRY HOLE ☐ SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a	DATE STATIC MEASURED 4/6/2022	
	DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:						
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER – SPECIFY: Hollow Stem Auger				CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐		
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
0 100.8		±6.5	Boring	--	--	--	--

3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. <u>C-4601-POD 1</u>	POD NO. <u>1</u>	TRN NO. <u>721041</u>
LOCATION <u>26.35.05.343</u>	WELL TAG ID NO. <u>---</u>	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	4	4	Sand, medium/ fine grained poorly graded, Red	Y ✓ N	
	4	19	15	Sand, medium/ fine grained poorly graded, Tan	Y ✓ N	
	19	101	82	Sand, medium/ fine grained poorly graded, Reddish Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					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: USE DTI 492.8 2022-03-16						
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Carmelo Trevino, Cameron Pruitt						
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 30 DAYS AFTER COMPLETION OF WELL DRILLING:  Jackie D. Atkins 4/7/2022 SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE					

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

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

Trn Nbr: 721041
File Nbr: C 04601
Well File Nbr: C 04601 POD1

Apr. 08, 2022

MELODIE SANJARI
MARATHON OIL
4111 S TIDWELL RD
CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 03/10/2022.

The Well Record was received in this office on 04/08/2022, stating that it had been completed on 03/31/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/10/2023.

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

Sincerely,

A handwritten signature in blue ink, appearing to read "Maret Amaral".

Maret Amaral
(575) 622-6521

drywell



2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

08/016/2021

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4601 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4601 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

092 011 APR 8 2022 PM 3:15

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PHOTO 1: Northwestern view during initial site assessment by third-party consultant. 5/27/2023

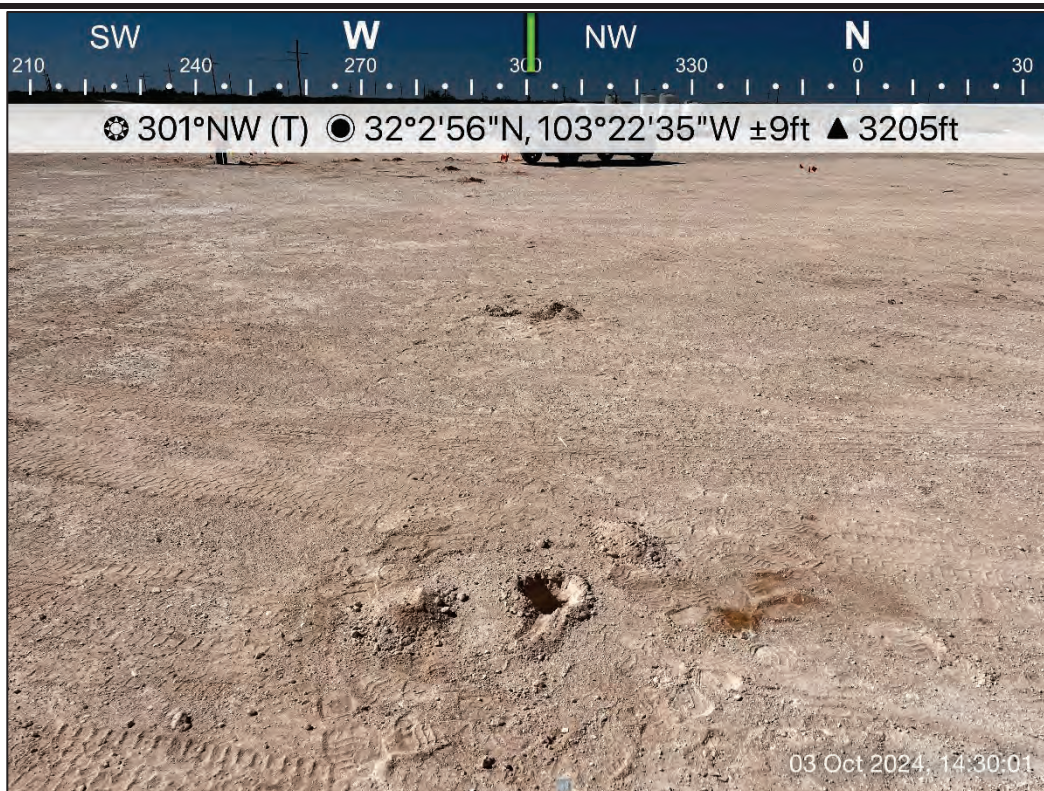


PHOTO 2: Northwestern view during delineation activities. 10/3/2024

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PHOTO 3: Southeastern view during delineation activities. 10/3/2024



PHOTO 4: Northeastern view during preparation for excavation activities. 3/4/2025

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PHOTO 5: Northeastern view during excavation activities. 3/4/2025



PHOTO 6: Northeastern view during excavation activities. 3/5/2025

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PHOTO 7: Northwestern view of excavation extent. 3/5/2025



PHOTO 8: Northwestern view following restoration activities. 3/17/2025



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Talco Federal #222H
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 - nAPP2315048206									
HA-1	10/03/24	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	1,150
HA-1	10/03/24	1	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	50.5
HA-2	10/03/24	0.5	<0.00201	<0.00402	<49.7	107	<49.7	107	651
HA-2	10/03/24	1	<0.00248	<0.00496	<49.8	<49.8	<49.8	<49.8	156
HA-3	10/03/24	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	46.6
HA-3	10/03/24	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	1,850
HA-4	10/03/24	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	229
HA-4	10/03/24	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	207
HA-5	10/03/24	0.5	<0.00199	<0.00398	<50.0	917	<50.0	917	2,040
HA-5	10/03/24	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	334
HA-6	10/03/24	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	545
HA-6	10/03/24	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	119
HA-6	10/17/24	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	12.4
HA-7	10/03/24	0.5	<0.00199	<0.00398	<49.9	155	<49.9	155	1,150
HA-7	10/03/24	1	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	951
HA-7	10/17/24	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	25.2
HA-8	10/03/24	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	114
HA-8	10/03/24	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	84.4
HA-8	10/17/24	2	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	35.3
HA-9	10/03/24	0.5	<0.00200	<0.00399	<50.0	72.3	<50.0	72.3	279
HA-9	10/03/24	1	<0.00201	<0.00402	<49.8	123	<49.8	123	545
HA-9	10/17/24	2	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	227
HA-10	10/03/24	0.5	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	1,070
HA-10	10/17/24	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	47.3
HA-10	10/17/24	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	12.7
HA-11	10/03/24	0.5	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	1,110
HA-11	10/17/24	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	121
HA-12	10/03/24	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	2,750



Table 1
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Talco Federal #222H
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 - nAPP2315048206									
HA-12	10/03/24	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	125
HA-13	10/03/24	0.5	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	217
HA-14	10/17/24	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	20.3
HA-14	10/17/24	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	62.7
HA-14	10/17/24	2	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	99.6
HA-15	10/17/24	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	50.2
HA-15	10/17/24	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	49.0
HA-15	10/17/24	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	11.4
HA-16	10/17/24	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	96.0
HA-16	10/17/24	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	10.8
HA-17	10/17/24	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	24.2
HA-17	10/17/24	1	<0.00167	<0.00334	<49.8	<49.8	<49.8	<49.8	98.2
HA-17	10/17/24	2	<0.00181	<0.00363	<49.7	<49.7	<49.7	<49.7	10.5
HA-18	10/17/24	0.5	<0.00169	<0.00338	<50.0	<50.0	<50.0	<50.0	21.5
HA-18	10/17/24	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	14.9
HA-18	10/17/24	2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	15.0
Confirmation Soil Samples - nAPP2315048206									
CS-1	03/05/25	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	307
CS-2	03/05/25	1	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	306
CS-3	03/05/25	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	113
CS-4	03/05/25	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	44.6
CS-5	03/05/25	2	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	15.5
CS-6	03/05/25	2	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	15.9
CS-7	03/05/25	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	400
CS-8	03/05/25	1	<0.00198	<0.00396	<49.9	51.5	<49.9	51.5	278
CS-9	03/05/25	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	318
CS-10	03/05/25	2	<0.00198	<0.00397	<49.7	<49.7	<49.7	<49.7	218
CS-11	03/05/25	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	147



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Talco Federal #222H
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
Confirmation Soil Samples - nAPP2315048206									
SW-1	03/05/25	0-2	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	309
SW-2	03/05/25	0-2	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	187
SW-3	03/05/25	0-2	<0.00200	<0.00399	<50.3	<50.3	<50.3	<50.3	255
SW-4	03/05/25	0-2	<0.00201	<0.00402	<50.0	64.2	<50.0	64.2	218

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.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 436651

QUESTIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 436651
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2315048206
Incident Name	NAPP2315048206 TALCO FEDERAL #222H @ 30-025-48612
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-48612] TALCO STATE FEDERAL COM #222H

Location of Release Source	
Site Name	TALCO FEDERAL #222H
Date Release Discovered	05/27/2023
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	3,000
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/05/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Gilbert Moreno (832) 541-7719
Please provide any information necessary for navigation to sampling site	32.049193, -103.37681

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

CONDITIONS

Action 436651

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 436651
	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.	2/27/2025



Outlook

Re: [EXTERNAL] Talco Federal #222 - Extension Request - nAPP2315048206

From Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>**Date** Wed 4/16/2025 8:54 AM**To** Gilbert Moreno <gmoreno@earthsys.net>**Cc** mjones@civiresources.com <mjones@civiresources.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Good morning Gilbert,

Thank you for your correspondence and in talking with me this morning. Since this release occurred prior to Civitas acquiring the site, OCD agrees to approve its time extension request for 30-days. Remediation Due date has been extended to May 16, 2025.

When Civitas became the operator of record for this site in February 2024 and contracted Earth Systems in June 2024, Civitas could and should have communicated with OCD on their intentions on resolving this incident. OCD prefers to work in unison with all operators to achieve the end results according to 19.15.29 NMAC. Keep this in mind for any future releases.

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

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

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



From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>**Sent:** Tuesday, April 15, 2025 11:23 AM**To:** Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: Re: [EXTERNAL] Talco Federal #222 - Extension Request - nAPP2315048206

Again, thanks for forwarding.

nv

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

Sent: Tuesday, April 15, 2025 11:20 AM

To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Subject: FW: [EXTERNAL] Talco Federal #222 - Extension Request - nAPP2315048206

Scott Rodgers • Environmental Specialist – Adv.

Environmental Bureau

EMNRD - Oil Conservation Division

5200 Oakland NE, Suite B | Albuquerque, NM 87113

505.469.1830 | scott.rodgers@emnrd.nm.gov

<http://www.emnrd.nm.gov/oecd>



From: Gilbert Moreno <gmoreno@earthsys.net>

Sent: Monday, April 14, 2025 2:21 PM

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

Cc: Mason Jones <mjones@civiresources.com>

Subject: [EXTERNAL] Talco Federal #222 - Extension Request - nAPP2315048206

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

Hello,

Earth Sytems R & R (ESRR) on behalf of 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 Talco Federal #222 (Site).

A produced water release was discovered on May 27, 2023, and was subsequently assigned Incident Number nAPP2315048206 at a former Tap Rock Operating location. A Tap Rock contracted third-party consultant was reported by Civitas to have completed initial site assessment activities. Since, Civitas has acquired this Site from Tap Rock Operating and the original third-party consultant was not retained. Unfortunately, lab analytical data and reports were not transferred over to Civitas. ESRR was contracted June 2024 to complete a thorough investigation of any remaining impacts and to perform additional

remediation if deemed necessary. ESRR performed the additional delineation activities during October 2024 and oversaw remediation activities of approximately 200 cubic yards in March 2025.

Civitas requests an extension of the past due deadline for the release associated with Incident Number nAPP2315048206 in order to get back in compliance prior to submitting a subsequent corrective action report completed by ESRR.

Thanks,

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





Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/9/2024 12:39:16 PM

JOB DESCRIPTION

Talco State Federal Com #222H
2296

JOB NUMBER

880-49382-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

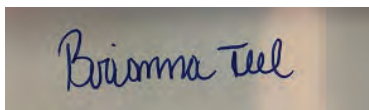
Eurofins Midland

Job Notes

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

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

Authorization



Generated
10/9/2024 12:39:16 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: Talco State Federal Com #222H

Laboratory Job ID: 880-49382-1
SDG: 2296

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Qualifiers

GC VOA

Qualifier	Qualifier Description
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
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: Talco State Federal Com #222H

Job ID: 880-49382-1

Job ID: 880-49382-1

Eurofins Midland

Job Narrative 880-49382-1

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 10/4/2024 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.1°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA-1 (880-49382-1), HA-1 (880-49382-2), HA-1 (880-49382-3), HA-2 (880-49382-4), HA-2 (880-49382-5), HA-2 (880-49382-6), HA-3 (880-49382-7), HA-3 (880-49382-8), HA-4 (880-49382-9), HA-4 (880-49382-10), HA-4 (880-49382-11), HA-5 (880-49382-12), HA-5 (880-49382-13), HA-5 (880-49382-14), HA-6 (880-49382-15), HA-6 (880-49382-16), HA-7 (880-49382-17), HA-7 (880-49382-18), HA-8 (880-49382-19), HA-8 (880-49382-20), HA-9 (880-49382-21), HA-9 (880-49382-22), HA-10 (880-49382-23), HA-11 (880-49382-24), HA-12 (880-49382-25), HA-12 (880-49382-26) and HA-13 (880-49382-27).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA-1 (880-49382-1), HA-1 (880-49382-2), HA-2 (880-49382-4), HA-2 (880-49382-5), HA-3 (880-49382-7), HA-3 (880-49382-8), HA-4 (880-49382-9), HA-4 (880-49382-10), HA-5 (880-49382-12), HA-5 (880-49382-13), HA-6 (880-49382-15), HA-6 (880-49382-16), HA-7 (880-49382-17), HA-7 (880-49382-18), HA-8 (880-49382-19), HA-8 (880-49382-20), HA-9 (880-49382-21), HA-9 (880-49382-22), HA-10 (880-49382-23), HA-11 (880-49382-24), (CCV 880-92652/20), (LCS 880-92654/1-A), (LCSD 880-92654/2-A), (880-49382-A-1-E MS) and (880-49382-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-92654 and analytical batch 880-92652 was outside the upper control limits.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-92727/32). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: HA-1 (880-49382-2), HA-5 (880-49382-12) and HA-8 (880-49382-20). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-92730 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 880-92730/57).

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-92727 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10 and 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 880-92727/58).

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

Eurofins Midland

Case Narrative

Client: Earth Systems Response and Restoration
Project: Talco State Federal Com #222H

Job ID: 880-49382-1

Job ID: 880-49382-1 (Continued) **Eurofins Midland**

batch 880-92615 and analytical batch 880-92740 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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Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-1

Lab Sample ID: 880-49382-1

Date Collected: 10/03/24 09:00

Matrix: Solid

Date Received: 10/04/24 10:40

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		10/07/24 08:14	10/08/24 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/07/24 08:14	10/08/24 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/07/24 08:14	10/08/24 11:40	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/07/24 08:14	10/08/24 11:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/07/24 08:14	10/08/24 11:40	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/07/24 08:14	10/08/24 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130	10/07/24 08:14	10/08/24 11:40	1
1,4-Difluorobenzene (Surr)	88		70 - 130	10/07/24 08:14	10/08/24 11:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/08/24 11:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/08/24 01:53	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		10/04/24 15:17	10/08/24 01:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/04/24 15:17	10/08/24 01:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/04/24 15:17	10/08/24 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	10/04/24 15:17	10/08/24 01:53	1
o-Terphenyl	77		70 - 130	10/04/24 15:17	10/08/24 01:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		5.05		mg/Kg			10/08/24 11:37	1

Client Sample ID: HA-1

Lab Sample ID: 880-49382-2

Date Collected: 10/03/24 09:05

Matrix: Solid

Date Received: 10/04/24 10:40

Sample Depth: 1

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		10/07/24 08:14	10/08/24 12:01	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/07/24 08:14	10/08/24 12:01	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/07/24 08:14	10/08/24 12:01	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/07/24 08:14	10/08/24 12:01	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/07/24 08:14	10/08/24 12:01	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/07/24 08:14	10/08/24 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130	10/07/24 08:14	10/08/24 12:01	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-1

Lab Sample ID: 880-49382-2

Date Collected: 10/03/24 09:05

Matrix: Solid

Date Received: 10/04/24 10:40

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	10/07/24 08:14	10/08/24 12:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/08/24 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			10/08/24 02:38	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	<49.7	U	49.7		mg/Kg		10/04/24 15:17	10/08/24 02:38	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		10/04/24 15:17	10/08/24 02:38	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/04/24 15:17	10/08/24 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130	10/04/24 15:17	10/08/24 02:38	1
o-Terphenyl	55	S1-	70 - 130	10/04/24 15:17	10/08/24 02:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.5		4.96		mg/Kg			10/08/24 11:44	1

Client Sample ID: HA-2

Lab Sample ID: 880-49382-4

Date Collected: 10/03/24 09:15

Matrix: Solid

Date Received: 10/04/24 10:40

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		10/07/24 08:14	10/08/24 12:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 12:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 12:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/07/24 08:14	10/08/24 12:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 12:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/07/24 08:14	10/08/24 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	10/07/24 08:14	10/08/24 12:21	1
1,4-Difluorobenzene (Surr)	88		70 - 130	10/07/24 08:14	10/08/24 12:21	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			10/08/24 12:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	107		49.7		mg/Kg			10/08/24 02:53	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-2
Date Collected: 10/03/24 09:15
Date Received: 10/04/24 10:40
Sample Depth: 0.5

Lab Sample ID: 880-49382-4
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/04/24 15:17	10/08/24 02:53	1
Diesel Range Organics (Over C10-C28)	107		49.7		mg/Kg		10/04/24 15:17	10/08/24 02:53	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/04/24 15:17	10/08/24 02:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				10/04/24 15:17	10/08/24 02:53	1
o-Terphenyl	79		70 - 130				10/04/24 15:17	10/08/24 02:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	651		4.98		mg/Kg			10/08/24 11:50	1

Client Sample ID: HA-2
Date Collected: 10/03/24 09:20
Date Received: 10/04/24 10:40
Sample Depth: 1

Lab Sample ID: 880-49382-5
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00248	U	0.00248		mg/Kg		10/07/24 08:14	10/08/24 12:41	1
Toluene	<0.00248	U	0.00248		mg/Kg		10/07/24 08:14	10/08/24 12:41	1
Ethylbenzene	<0.00248	U	0.00248		mg/Kg		10/07/24 08:14	10/08/24 12:41	1
m-Xylene & p-Xylene	<0.00496	U	0.00496		mg/Kg		10/07/24 08:14	10/08/24 12:41	1
o-Xylene	<0.00248	U	0.00248		mg/Kg		10/07/24 08:14	10/08/24 12:41	1
Xylenes, Total	<0.00496	U	0.00496		mg/Kg		10/07/24 08:14	10/08/24 12:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130				10/07/24 08:14	10/08/24 12:41	1
1,4-Difluorobenzene (Surr)	88		70 - 130				10/07/24 08:14	10/08/24 12:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00496	U	0.00496		mg/Kg			10/08/24 12:41	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			10/08/24 03:09	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		10/04/24 15:17	10/08/24 03:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/04/24 15:17	10/08/24 03:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/04/24 15:17	10/08/24 03:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				10/04/24 15:17	10/08/24 03:09	1
o-Terphenyl	84		70 - 130				10/04/24 15:17	10/08/24 03:09	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-2
Date Collected: 10/03/24 09:20
Date Received: 10/04/24 10:40
Sample Depth: 1

Lab Sample ID: 880-49382-5
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	156		4.96		mg/Kg			10/08/24 11:57	1

Client Sample ID: HA-3
Date Collected: 10/03/24 09:30
Date Received: 10/04/24 10:40
Sample Depth: 0.5

Lab Sample ID: 880-49382-7
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		10/07/24 08:14	10/08/24 13:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/07/24 08:14	10/08/24 13:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/07/24 08:14	10/08/24 13:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/07/24 08:14	10/08/24 13:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/07/24 08:14	10/08/24 13:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/07/24 08:14	10/08/24 13:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130				10/07/24 08:14	10/08/24 13:02	1
1,4-Difluorobenzene (Surr)	88		70 - 130				10/07/24 08:14	10/08/24 13:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/08/24 13:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/08/24 03:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/04/24 15:17	10/08/24 03:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/04/24 15:17	10/08/24 03:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/04/24 15:17	10/08/24 03:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				10/04/24 15:17	10/08/24 03:24	1
o-Terphenyl	93		70 - 130				10/04/24 15:17	10/08/24 03:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.6		5.04		mg/Kg			10/08/24 12:03	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-3
Date Collected: 10/03/24 09:35
Date Received: 10/04/24 10:40
Sample Depth: 1

Lab Sample ID: 880-49382-8
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		10/07/24 08:14	10/08/24 13:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 13:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 13:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/07/24 08:14	10/08/24 13:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 13:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/07/24 08:14	10/08/24 13:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130				10/07/24 08:14	10/08/24 13:22	1
1,4-Difluorobenzene (Surr)	88		70 - 130				10/07/24 08:14	10/08/24 13:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/08/24 13:22	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			10/08/24 03:39	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		10/04/24 15:17	10/08/24 03:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/04/24 15:17	10/08/24 03:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/04/24 15:17	10/08/24 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				10/04/24 15:17	10/08/24 03:39	1
o-Terphenyl	78		70 - 130				10/04/24 15:17	10/08/24 03:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1850	F1	24.9		mg/Kg			10/08/24 12:09	5

Client Sample ID: HA-4
Date Collected: 10/03/24 09:40
Date Received: 10/04/24 10:40
Sample Depth: 0.5

Lab Sample ID: 880-49382-9
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		10/07/24 08:14	10/08/24 13:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 13:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 13:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/07/24 08:14	10/08/24 13:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 13:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/07/24 08:14	10/08/24 13:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130				10/07/24 08:14	10/08/24 13:43	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-4

Lab Sample ID: 880-49382-9

Date Collected: 10/03/24 09:40

Matrix: Solid

Date Received: 10/04/24 10:40

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	10/07/24 08:14	10/08/24 13:43	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			10/08/24 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/08/24 03:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/04/24 15:17	10/08/24 03:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/04/24 15:17	10/08/24 03:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/04/24 15:17	10/08/24 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				10/04/24 15:17	10/08/24 03:54	1
o-Terphenyl	86		70 - 130				10/04/24 15:17	10/08/24 03:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	229		4.96		mg/Kg			10/08/24 12:29	1

Client Sample ID: HA-4

Lab Sample ID: 880-49382-10

Date Collected: 10/03/24 09:45

Matrix: Solid

Date Received: 10/04/24 10:40

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		10/07/24 08:14	10/08/24 14:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/07/24 08:14	10/08/24 14:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/07/24 08:14	10/08/24 14:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/07/24 08:14	10/08/24 14:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/07/24 08:14	10/08/24 14:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/07/24 08:14	10/08/24 14:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130				10/07/24 08:14	10/08/24 14:03	1
1,4-Difluorobenzene (Surr)	88		70 - 130				10/07/24 08:14	10/08/24 14:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/08/24 14:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/08/24 04:10	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-4

Lab Sample ID: 880-49382-10

Date Collected: 10/03/24 09:45

Matrix: Solid

Date Received: 10/04/24 10:40

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/04/24 15:17	10/08/24 04:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/04/24 15:17	10/08/24 04:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/04/24 15:17	10/08/24 04:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				10/04/24 15:17	10/08/24 04:10	1
o-Terphenyl	77		70 - 130				10/04/24 15:17	10/08/24 04:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	207		5.04		mg/Kg			10/08/24 12:35	1

Client Sample ID: HA-5

Lab Sample ID: 880-49382-12

Date Collected: 10/03/24 09:55

Matrix: Solid

Date Received: 10/04/24 10:40

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/07/24 08:14	10/08/24 14:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/07/24 08:14	10/08/24 14:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/07/24 08:14	10/08/24 14:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/07/24 08:14	10/08/24 14:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/07/24 08:14	10/08/24 14:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/07/24 08:14	10/08/24 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130				10/07/24 08:14	10/08/24 14:24	1
1,4-Difluorobenzene (Surr)	87		70 - 130				10/07/24 08:14	10/08/24 14:24	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			10/08/24 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	917		50.0		mg/Kg			10/08/24 04:25	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	<50.0	U	50.0		mg/Kg		10/04/24 15:17	10/08/24 04:25	1
Diesel Range Organics (Over C10-C28)	917		50.0		mg/Kg		10/04/24 15:17	10/08/24 04:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/04/24 15:17	10/08/24 04:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	165	S1+	70 - 130				10/04/24 15:17	10/08/24 04:25	1
o-Terphenyl	159	S1+	70 - 130				10/04/24 15:17	10/08/24 04:25	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-5

Lab Sample ID: 880-49382-12

Date Collected: 10/03/24 09:55

Matrix: Solid

Date Received: 10/04/24 10:40

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2040		25.0		mg/Kg			10/08/24 12:54	5

Client Sample ID: HA-5

Lab Sample ID: 880-49382-13

Date Collected: 10/03/24 10:00

Matrix: Solid

Date Received: 10/04/24 10:40

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 14:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 14:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 14:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/07/24 08:14	10/08/24 14:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 14:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/07/24 08:14	10/08/24 14:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130				10/07/24 08:14	10/08/24 14:44	1
1,4-Difluorobenzene (Surr)	87		70 - 130				10/07/24 08:14	10/08/24 14:44	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			10/08/24 14:44	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			10/08/24 04:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		10/04/24 15:17	10/08/24 04:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/04/24 15:17	10/08/24 04:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/04/24 15:17	10/08/24 04:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				10/04/24 15:17	10/08/24 04:41	1
o-Terphenyl	82		70 - 130				10/04/24 15:17	10/08/24 04:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	334		5.02		mg/Kg			10/08/24 13:01	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-6
Date Collected: 10/03/24 10:10
Date Received: 10/04/24 10:40
Sample Depth: 0.5

Lab Sample ID: 880-49382-15
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		10/07/24 08:14	10/08/24 16:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 16:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 16:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/07/24 08:14	10/08/24 16:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 16:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/07/24 08:14	10/08/24 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130				10/07/24 08:14	10/08/24 16:19	1
1,4-Difluorobenzene (Surr)	90		70 - 130				10/07/24 08:14	10/08/24 16:19	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			10/08/24 16:19	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			10/08/24 05:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/04/24 15:17	10/08/24 05:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/04/24 15:17	10/08/24 05:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/04/24 15:17	10/08/24 05:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				10/04/24 15:17	10/08/24 05:12	1
o-Terphenyl	78		70 - 130				10/04/24 15:17	10/08/24 05:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	545		5.01		mg/Kg			10/08/24 13:07	1

Client Sample ID: HA-6
Date Collected: 10/03/24 10:15
Date Received: 10/04/24 10:40
Sample Depth: 1

Lab Sample ID: 880-49382-16
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		10/07/24 08:14	10/08/24 16:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/07/24 08:14	10/08/24 16:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/07/24 08:14	10/08/24 16:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/07/24 08:14	10/08/24 16:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/07/24 08:14	10/08/24 16:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/07/24 08:14	10/08/24 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130				10/07/24 08:14	10/08/24 16:39	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-6

Lab Sample ID: 880-49382-16

Date Collected: 10/03/24 10:15

Matrix: Solid

Date Received: 10/04/24 10:40

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	10/07/24 08:14	10/08/24 16:39	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			10/08/24 16:39	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			10/08/24 05:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/04/24 15:17	10/08/24 05:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/04/24 15:17	10/08/24 05:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/04/24 15:17	10/08/24 05:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				10/04/24 15:17	10/08/24 05:27	1
o-Terphenyl	76		70 - 130				10/04/24 15:17	10/08/24 05:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		5.04		mg/Kg			10/08/24 13:14	1

Client Sample ID: HA-7

Lab Sample ID: 880-49382-17

Date Collected: 10/03/24 10:20

Matrix: Solid

Date Received: 10/04/24 10:40

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/07/24 08:14	10/08/24 17:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/07/24 08:14	10/08/24 17:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/07/24 08:14	10/08/24 17:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/07/24 08:14	10/08/24 17:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/07/24 08:14	10/08/24 17:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/07/24 08:14	10/08/24 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130	10/07/24 08:14	10/08/24 17:00	1
1,4-Difluorobenzene (Surr)	88		70 - 130	10/07/24 08:14	10/08/24 17:00	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			10/08/24 17:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	155		49.9		mg/Kg			10/08/24 05:43	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-7

Lab Sample ID: 880-49382-17

Date Collected: 10/03/24 10:20

Matrix: Solid

Date Received: 10/04/24 10:40

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		10/04/24 15:17	10/08/24 05:43	1
Diesel Range Organics (Over C10-C28)	155		49.9		mg/Kg		10/04/24 15:17	10/08/24 05:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/04/24 15:17	10/08/24 05:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				10/04/24 15:17	10/08/24 05:43	1
o-Terphenyl	78		70 - 130				10/04/24 15:17	10/08/24 05:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		24.8		mg/Kg			10/08/24 13:20	5

Client Sample ID: HA-7

Lab Sample ID: 880-49382-18

Date Collected: 10/03/24 11:10

Matrix: Solid

Date Received: 10/04/24 10:40

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 17:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 17:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 17:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/07/24 08:14	10/08/24 17:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 17:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/07/24 08:14	10/08/24 17:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130				10/07/24 08:14	10/08/24 17:20	1
1,4-Difluorobenzene (Surr)	88		70 - 130				10/07/24 08:14	10/08/24 17:20	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			10/08/24 17:20	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			10/08/24 05:58	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	<49.7	U	49.7		mg/Kg		10/04/24 15:17	10/08/24 05:58	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		10/04/24 15:17	10/08/24 05:58	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/04/24 15:17	10/08/24 05:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				10/04/24 15:17	10/08/24 05:58	1
o-Terphenyl	81		70 - 130				10/04/24 15:17	10/08/24 05:58	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-7
Date Collected: 10/03/24 11:10
Date Received: 10/04/24 10:40
Sample Depth: 1

Lab Sample ID: 880-49382-18
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	951		25.3		mg/Kg			10/08/24 13:27	5

Client Sample ID: HA-8
Date Collected: 10/03/24 11:25
Date Received: 10/04/24 10:40
Sample Depth: 0.5

Lab Sample ID: 880-49382-19
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		10/07/24 08:14	10/08/24 17:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/07/24 08:14	10/08/24 17:40	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/07/24 08:14	10/08/24 17:40	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/07/24 08:14	10/08/24 17:40	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/07/24 08:14	10/08/24 17:40	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/07/24 08:14	10/08/24 17:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130				10/07/24 08:14	10/08/24 17:40	1
1,4-Difluorobenzene (Surr)	89		70 - 130				10/07/24 08:14	10/08/24 17:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			10/08/24 17:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/08/24 06:14	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		10/04/24 15:17	10/08/24 06:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/04/24 15:17	10/08/24 06:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/04/24 15:17	10/08/24 06:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				10/04/24 15:17	10/08/24 06:14	1
o-Terphenyl	78		70 - 130				10/04/24 15:17	10/08/24 06:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		5.00		mg/Kg			10/08/24 13:33	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-8
Date Collected: 10/03/24 10:30
Date Received: 10/04/24 10:40
Sample Depth: 1

Lab Sample ID: 880-49382-20
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		10/07/24 08:14	10/08/24 18:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/07/24 08:14	10/08/24 18:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/07/24 08:14	10/08/24 18:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/07/24 08:14	10/08/24 18:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/07/24 08:14	10/08/24 18:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/07/24 08:14	10/08/24 18:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130				10/07/24 08:14	10/08/24 18:01	1
1,4-Difluorobenzene (Surr)	88		70 - 130				10/07/24 08:14	10/08/24 18:01	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			10/08/24 18:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/08/24 06:29	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		10/04/24 15:17	10/08/24 06:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/04/24 15:17	10/08/24 06:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/04/24 15:17	10/08/24 06:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				10/04/24 15:17	10/08/24 06:29	1
o-Terphenyl	56	S1-	70 - 130				10/04/24 15:17	10/08/24 06:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.4		4.96		mg/Kg			10/07/24 18:25	1

Client Sample ID: HA-9
Date Collected: 10/03/24 10:35
Date Received: 10/04/24 10:40
Sample Depth: 0.5

Lab Sample ID: 880-49382-21
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		10/07/24 08:14	10/08/24 18:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/07/24 08:14	10/08/24 18:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/07/24 08:14	10/08/24 18:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/07/24 08:14	10/08/24 18:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/07/24 08:14	10/08/24 18:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/07/24 08:14	10/08/24 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130				10/07/24 08:14	10/08/24 18:21	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-9

Lab Sample ID: 880-49382-21

Date Collected: 10/03/24 10:35

Matrix: Solid

Date Received: 10/04/24 10:40

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	10/07/24 08:14	10/08/24 18:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/08/24 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	72.3		50.0		mg/Kg			10/08/24 06:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/04/24 15:17	10/08/24 06:45	1
Diesel Range Organics (Over C10-C28)	72.3		50.0		mg/Kg		10/04/24 15:17	10/08/24 06:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/04/24 15:17	10/08/24 06:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				10/04/24 15:17	10/08/24 06:45	1
o-Terphenyl	80		70 - 130				10/04/24 15:17	10/08/24 06:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	279		4.96		mg/Kg			10/07/24 18:45	1

Client Sample ID: HA-9

Lab Sample ID: 880-49382-22

Date Collected: 10/03/24 10:40

Matrix: Solid

Date Received: 10/04/24 10:40

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 18:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 18:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 18:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/07/24 08:14	10/08/24 18:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/07/24 08:14	10/08/24 18:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/07/24 08:14	10/08/24 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130	10/07/24 08:14	10/08/24 18:42	1
1,4-Difluorobenzene (Surr)	87		70 - 130	10/07/24 08:14	10/08/24 18:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/08/24 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	123		49.8		mg/Kg			10/08/24 07:00	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-9
Date Collected: 10/03/24 10:40
Date Received: 10/04/24 10:40
Sample Depth: 1

Lab Sample ID: 880-49382-22
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	49.8		mg/Kg		10/04/24 15:17	10/08/24 07:00	1
Diesel Range Organics (Over C10-C28)	123		49.8		mg/Kg		10/04/24 15:17	10/08/24 07:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/04/24 15:17	10/08/24 07:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				10/04/24 15:17	10/08/24 07:00	1
o-Terphenyl	84		70 - 130				10/04/24 15:17	10/08/24 07:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	545		4.98		mg/Kg			10/07/24 18:51	1

Client Sample ID: HA-10
Date Collected: 10/03/24 10:45
Date Received: 10/04/24 10:40
Sample Depth: 0.5

Lab Sample ID: 880-49382-23
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		10/07/24 08:14	10/08/24 19:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/07/24 08:14	10/08/24 19:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/07/24 08:14	10/08/24 19:02	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/07/24 08:14	10/08/24 19:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/07/24 08:14	10/08/24 19:02	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/07/24 08:14	10/08/24 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130				10/07/24 08:14	10/08/24 19:02	1
1,4-Difluorobenzene (Surr)	88		70 - 130				10/07/24 08:14	10/08/24 19:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			10/08/24 19:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/08/24 07:15	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	<49.7	U	49.7		mg/Kg		10/04/24 15:17	10/08/24 07:15	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		10/04/24 15:17	10/08/24 07:15	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/04/24 15:17	10/08/24 07:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				10/04/24 15:17	10/08/24 07:15	1
o-Terphenyl	79		70 - 130				10/04/24 15:17	10/08/24 07:15	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-10
Date Collected: 10/03/24 10:45
Date Received: 10/04/24 10:40
Sample Depth: 0.5

Lab Sample ID: 880-49382-23
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		25.0		mg/Kg			10/07/24 18:57	5

Client Sample ID: HA-11
Date Collected: 10/03/24 10:50
Date Received: 10/04/24 10:40
Sample Depth: 0.5

Lab Sample ID: 880-49382-24
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		10/07/24 08:14	10/08/24 19:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/07/24 08:14	10/08/24 19:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/07/24 08:14	10/08/24 19:23	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/07/24 08:14	10/08/24 19:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/07/24 08:14	10/08/24 19:23	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/07/24 08:14	10/08/24 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130				10/07/24 08:14	10/08/24 19:23	1
1,4-Difluorobenzene (Surr)	87		70 - 130				10/07/24 08:14	10/08/24 19:23	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			10/08/24 19:23	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			10/08/24 07:30	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		10/04/24 15:17	10/08/24 07:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/04/24 15:17	10/08/24 07:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/04/24 15:17	10/08/24 07:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				10/04/24 15:17	10/08/24 07:30	1
o-Terphenyl	77		70 - 130				10/04/24 15:17	10/08/24 07:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1110		24.9		mg/Kg			10/07/24 19:04	5

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-12

Lab Sample ID: 880-49382-25

Date Collected: 10/03/24 10:55

Matrix: Solid

Date Received: 10/04/24 10:40

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/07/24 09:21	10/07/24 12:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/07/24 09:21	10/07/24 12:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/07/24 09:21	10/07/24 12:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/07/24 09:21	10/07/24 12:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/07/24 09:21	10/07/24 12:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/07/24 09:21	10/07/24 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	10/07/24 09:21	10/07/24 12:21	1
1,4-Difluorobenzene (Surr)	92		70 - 130	10/07/24 09:21	10/07/24 12:21	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			10/07/24 12:21	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			10/08/24 01:53	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		10/04/24 15:21	10/08/24 01:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/04/24 15:21	10/08/24 01:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/04/24 15:21	10/08/24 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	10/04/24 15:21	10/08/24 01:53	1
o-Terphenyl	104		70 - 130	10/04/24 15:21	10/08/24 01:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2750		25.0		mg/Kg			10/07/24 19:23	5

Client Sample ID: HA-12

Lab Sample ID: 880-49382-26

Date Collected: 10/03/24 11:00

Matrix: Solid

Date Received: 10/04/24 10:40

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/07/24 09:21	10/07/24 12:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/07/24 09:21	10/07/24 12:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/07/24 09:21	10/07/24 12:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/07/24 09:21	10/07/24 12:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/07/24 09:21	10/07/24 12:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/07/24 09:21	10/07/24 12:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	10/07/24 09:21	10/07/24 12:41	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-12

Lab Sample ID: 880-49382-26

Date Collected: 10/03/24 11:00

Matrix: Solid

Date Received: 10/04/24 10:40

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87		70 - 130	10/07/24 09:21	10/07/24 12:41	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			10/07/24 12:41	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			10/08/24 02:38	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	<49.8	U	49.8		mg/Kg		10/04/24 15:21	10/08/24 02:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/04/24 15:21	10/08/24 02:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/04/24 15:21	10/08/24 02:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				10/04/24 15:21	10/08/24 02:38	1
o-Terphenyl	94		70 - 130				10/04/24 15:21	10/08/24 02:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125		5.01		mg/Kg			10/07/24 19:30	1

Client Sample ID: HA-13

Lab Sample ID: 880-49382-27

Date Collected: 10/03/24 11:05

Matrix: Solid

Date Received: 10/04/24 10:40

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		10/07/24 09:21	10/07/24 13:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/07/24 09:21	10/07/24 13:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/07/24 09:21	10/07/24 13:22	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/07/24 09:21	10/07/24 13:22	1
o-Xylene	0.00305		0.00202		mg/Kg		10/07/24 09:21	10/07/24 13:22	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/07/24 09:21	10/07/24 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/07/24 09:21	10/07/24 13:22	1
1,4-Difluorobenzene (Surr)	89		70 - 130	10/07/24 09:21	10/07/24 13:22	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			10/07/24 13:22	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			10/08/24 02:53	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-13
Date Collected: 10/03/24 11:05
Date Received: 10/04/24 10:40
Sample Depth: 0.5

Lab Sample ID: 880-49382-27
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/04/24 15:21	10/08/24 02:53	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		10/04/24 15:21	10/08/24 02:53	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/04/24 15:21	10/08/24 02:53	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	85		70 - 130				10/04/24 15:21	10/08/24 02:53	1	
o-Terphenyl	81		70 - 130				10/04/24 15:21	10/08/24 02:53	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	217		5.03		mg/Kg			10/07/24 19:36	1	

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

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)		
880-49382-1	HA-1	156 S1+	88		
880-49382-1 MS	HA-1	149 S1+	88		
880-49382-1 MSD	HA-1	147 S1+	87		
880-49382-2	HA-1	155 S1+	88		
880-49382-4	HA-2	152 S1+	88		
880-49382-5	HA-2	156 S1+	88		
880-49382-7	HA-3	160 S1+	88		
880-49382-8	HA-3	163 S1+	88		
880-49382-9	HA-4	158 S1+	88		
880-49382-10	HA-4	156 S1+	88		
880-49382-12	HA-5	151 S1+	87		
880-49382-13	HA-5	155 S1+	87		
880-49382-15	HA-6	159 S1+	90		
880-49382-16	HA-6	155 S1+	88		
880-49382-17	HA-7	160 S1+	88		
880-49382-18	HA-7	158 S1+	88		
880-49382-19	HA-8	159 S1+	89		
880-49382-20	HA-8	160 S1+	88		
880-49382-21	HA-9	156 S1+	88		
880-49382-22	HA-9	154 S1+	87		
880-49382-23	HA-10	159 S1+	88		
880-49382-24	HA-11	156 S1+	87		
880-49382-25	HA-12	89	92		
880-49382-26	HA-12	88	87		
880-49382-27	HA-13	96	89		
890-7210-A-1-C MS	Matrix Spike	99	96		
890-7210-A-1-D MSD	Matrix Spike Duplicate	96	97		
LCS 880-92654/1-A	Lab Control Sample	146 S1+	88		
LCS 880-92667/1-A	Lab Control Sample	98	110		
LCSD 880-92654/2-A	Lab Control Sample Dup	151 S1+	88		
LCSD 880-92667/2-A	Lab Control Sample Dup	98	107		
MB 880-92654/5-A	Method Blank	151 S1+	86		
MB 880-92667/5-A	Method Blank	81	93		
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)		
880-49382-1	HA-1	94	77		
880-49382-1 MS	HA-1	101	97		
880-49382-1 MSD	HA-1	96	92		
880-49382-2	HA-1	66 S1-	55 S1-		
880-49382-4	HA-2	84	79		
880-49382-5	HA-2	95	84		

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Surrogate Summary

Client: Earth Systems Response and Restoration

Job ID: 880-49382-1

Project/Site: Talco State Federal Com #222H

SDG: 2296

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)
880-49382-7	HA-3	111	93
880-49382-8	HA-3	93	78
880-49382-9	HA-4	103	86
880-49382-10	HA-4	96	77
880-49382-12	HA-5	165 S1+	159 S1+
880-49382-13	HA-5	96	82
880-49382-15	HA-6	86	78
880-49382-16	HA-6	93	76
880-49382-17	HA-7	87	78
880-49382-18	HA-7	98	81
880-49382-19	HA-8	91	78
880-49382-20	HA-8	68 S1-	56 S1-
880-49382-21	HA-9	97	80
880-49382-22	HA-9	101	84
880-49382-23	HA-10	99	79
880-49382-24	HA-11	94	77
880-49382-25	HA-12	107	104
880-49382-25 MS	HA-12	114	119
880-49382-25 MSD	HA-12	111	115
880-49382-26	HA-12	102	94
880-49382-27	HA-13	85	81
LCS 880-92602/2-A	Lab Control Sample	102	91
LCS 880-92604/2-A	Lab Control Sample	114	117
LCSD 880-92602/3-A	Lab Control Sample Dup	116	102
LCSD 880-92604/3-A	Lab Control Sample Dup	115	118
MB 880-92602/1-A	Method Blank	95	75
MB 880-92604/1-A	Method Blank	105	99

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-92654/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 92652							Prep Batch: 92654		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<en. ene	U000200	K	000200		m7/B7		10/0z/24 08:14	10/08/24 11:19	1
Toluene	U000200	K	000200		m7/B7		10/0z/24 08:14	10/08/24 11:19	1
Ethylben. ene	U000200	K	000200		m7/B7		10/0z/24 08:14	10/08/24 11:19	1
m-Xylene & p-Xylene	U000400	K	000400		m7/B7		10/0z/24 08:14	10/08/24 11:19	1
o-Xylene	U000200	K	000200		m7/B7		10/0z/24 08:14	10/08/24 11:19	1
Xylenes, Total	U000400	K	000400		m7/B7		10/0z/24 08:14	10/08/24 11:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S16	+7 - 107				1737+34 7/ 8/4	1737/ 34 118/	1
1,2,4-Trifluorobenzene (Surr)	/,		+7 - 107				1737+34 7/ 8/4	1737/ 34 118/	1

Lab Sample ID: LCS 880-92654/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 92652							Prep Batch: 92654		
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
<en. ene			00100	001086		m7/B7		109	z0 - 130
Toluene			00100	001122		m7/B7		112	z0 - 130
Ethylben. ene			00100	001125		m7/B7		113	z0 - 130
m-Xylene & p-Xylene			00200	002328		m7/B7		116	z0 - 130
o-Xylene			00100	001164		m7/B7		116	z0 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	14,	S16	+7 - 107						
1,2,4-Trifluorobenzene (Surr)	//		+7 - 107						

Lab Sample ID: LCSD 880-92654/2-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 92652						Prep Batch: 92654					
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<en. ene			0g100	0g102z		m7/B7		103	z0 - 130	6	35
Toluene			0g100	0g1064		m7/B7		106	z0 - 130	5	35
Ethylben. ene			0g100	0g1065		m7/B7		106	z0 - 130	6	35
m-Xylene & p-Xylene			0g200	0g2192		m7/B7		110	z0 - 130	6	35
o-Xylene			0g100	0g1106		m7/B7		111	z0 - 130	5	35
			LCSD	LCSD							
Surrogate			%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)			151	S16	+7 - 107						
1,2,4-Trifluorobenzene (Surr)			//		+7 - 107						

Lab Sample ID: 880-49382-1 MS									Client Sample ID: HA-1		
Matrix: Solid									Prep Type: Total/NA		
Analysis Batch: 92652									Prep Batch: 92654		
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
<en. ene	U000200	K	00100	001065		m7/B7		10z	z0 - 130		
Toluene	U000200	K	00100	001101		m7/B7		110	z0 - 130		

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

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

Lab Sample ID: 880-49382-1 MS
Matrix: Solid
Analysis Batch: 92652

Client Sample ID: HA-1
Prep Type: Total/NA
Prep Batch: 92654

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylben. ene	U000200	K	00100	00100		m7/B7		110	z0 - 130
m-Xylene & p-Xylene	U000399	K	00200	00263		m7/B7		113	z0 - 130
o-Xylene	U000200	K	00100	00132		m7/B7		113	z0 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	14:	S16	+7 - 107						
1,2,4-Trifluorobenzene (Surr)	//		+7 - 107						

Lab Sample ID: 880-49382-1 MSD
Matrix: Solid
Analysis Batch: 92652

Client Sample ID: HA-1
Prep Type: Total/NA
Prep Batch: 92654

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
<en. ene	U000200	K	00100	001051		m7/B7		105	z0 - 130	1	35
Toluene	U000200	K	00100	00108z		m7/B7		109	z0 - 130	1	35
Ethylben. ene	U000200	K	00100	001090		m7/B7		109	z0 - 130	1	35
m-Xylene & p-Xylene	U000399	K	00200	002250		m7/B7		112	z0 - 130	1	35
o-Xylene	U000200	K	00100	00112z		m7/B7		113	z0 - 130	0	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	14+	S16	+7 - 107								
1,2,4-Trifluorobenzene (Surr)	/ +		+7 - 107								

Lab Sample ID: MB 880-92667/5-A
Matrix: Solid
Analysis Batch: 92657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 92667

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<en. ene	U000200	K	000200		m7/B7		10/0z/24 09:21	10/0z/24 11:18	1
Toluene	U000200	K	000200		m7/B7		10/0z/24 09:21	10/0z/24 11:18	1
Ethylben. ene	U000200	K	000200		m7/B7		10/0z/24 09:21	10/0z/24 11:18	1
m-Xylene & p-Xylene	U000400	K	000400		m7/B7		10/0z/24 09:21	10/0z/24 11:18	1
o-Xylene	U000200	K	000200		m7/B7		10/0z/24 09:21	10/0z/24 11:18	1
Xylenes, Total	U000400	K	000400		m7/B7		10/0z/24 09:21	10/0z/24 11:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
4-Bromofluorobenzene (Surr)	/ 1		+7 - 107						
1,2,4-Trifluorobenzene (Surr)	: 0		+7 - 107						

Lab Sample ID: LCS 880-92667/1-A
Matrix: Solid
Analysis Batch: 92657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 92667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
<en. ene	00100	001030		m7/B7		103	z0 - 130
Toluene	00100	001189		m7/B7		119	z0 - 130
Ethylben. ene	00100	001160		m7/B7		116	z0 - 130
m-Xylene & p-Xylene	00200	002148		m7/B7		10z	z0 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

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

Lab Sample ID: LCS 880-92667/1-A

Matrix: Solid

Analysis Batch: 92657

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 92667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0g/100	0g/1053		m7/B7		105	z0 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	: /		+7 - 107
1,2,4-Trifluorobenzene (Surr)	117		+7 - 107

Lab Sample ID: LCSD 880-92667/2-A

Matrix: Solid

Analysis Batch: 92657

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 92667

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
<en. ene	0g/100	0g/9436		m7/B7		94	z0 - 130	9	35
Toluene	0g/100	0g/1094		m7/B7		109	z0 - 130	8	35
Ethylben. ene	0g/100	0g/103z		m7/B7		104	z0 - 130	11	35
m-Xylene & p-Xylene	0g/200	0g/1956		m7/B7		98	z0 - 130	9	35
o-Xylene	0g/100	0g/9583		m7/B7		96	z0 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	: /		+7 - 107
1,2,4-Trifluorobenzene (Surr)	17+		+7 - 107

Lab Sample ID: 890-7210-A-1-C MS

Matrix: Solid

Analysis Batch: 92657

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 92667

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
<en. ene	U0g/0201	K	0g/100	0g/8613		m7/B7		86	z0 - 130
Toluene	U0g/0201	K	0g/100	0g/8z05		m7/B7		8z	z0 - 130
Ethylben. ene	U0g/0201	K	0g/100	0g/9669		m7/B7		9z	z0 - 130
m-Xylene & p-Xylene	U0g/0402	K	0g/200	0g/1z98		m7/B7		90	z0 - 130
o-Xylene	U0g/0201	K	0g/100	0g/8831		m7/B7		88	z0 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	: :		+7 - 107
1,2,4-Trifluorobenzene (Surr)	: ,		+7 - 107

Lab Sample ID: 890-7210-A-1-D MSD

Matrix: Solid

Analysis Batch: 92657

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 92667

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
<en. ene	U0g/0201	K	0g/100	0g/8629		m7/B7		86	z0 - 130	0	35
Toluene	U0g/0201	K	0g/100	0g/8642		m7/B7		86	z0 - 130	1	35
Ethylben. ene	U0g/0201	K	0g/100	0g/9164		m7/B7		92	z0 - 130	5	35
m-Xylene & p-Xylene	U0g/0402	K	0g/200	0g/1z10		m7/B7		86	z0 - 130	5	35
o-Xylene	U0g/0201	K	0g/100	0g/8459		m7/B7		85	z0 - 130	4	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

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

Lab Sample ID: 890-7210-A-1-D MSD				Client Sample ID: Matrix Spike Duplicate			
Matrix: Solid				Prep Type: Total/NA			
Analysis Batch: 92657				Prep Batch: 92667			
	MSD	MSD					
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	: ,		+7 - 107				
1,4-Difluorobenzene (Surr)	: +		+7 - 107				

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

Lab Sample ID: MB 880-92602/1-A							Client Sample ID: Method Blank			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 92727							Prep Batch: 92602			
	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Ran7e) r7anics	U50g	K	50g		m7/B7		10/04/24 15:1z	10/08/24 01:05		1
vGR) f-C6-C10										
Diesel Ran7e) r7anics v) Mer	U50g	K	50g		m7/B7		10/04/24 15:1z	10/08/24 01:05		1
C10-C28f										
) il Ran7e) r7anics v) Mer C28-C36f	U50g	K	50g		m7/B7		10/04/24 15:1z	10/08/24 01:05		1
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-h chloroot @ne	: 5		+7 - 107				173434 158+	173/ 34 7185		1
o-Terpcenyl	+5		+7 - 107				173434 158+	173/ 34 7185		1

Lab Sample ID: LCS 880-92602/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 92727					Prep Batch: 92602				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec		
							Limits		
Gasoline Ran7e) r7anics	1000	1038		m7/B7		104	z0 - 130		
vGR) f-C6-C10									
Diesel Ran7e) r7anics v) Mer	1000	835g		m7/B7		84	z0 - 130		
C10-C28f									
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1-h cloroot @ne	172		+7 - 107						
o-Terpcenyl	: 1		+7 - 107						

Lab Sample ID: LCSD 880-92602/3-A					Client Sample ID: Lab Control Sample Dup						
Matrix: Solid					Prep Type: Total/NA						
Analysis Batch: 92727					Prep Batch: 92602						
			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Ran7e) r7anics			1000	1211		m7/B7		121	z0 - 130	15	20
vGR) f-C6-C10											
Diesel Ran7e) r7anics v) Mer			1000	954g		m7/B7		95	z0 - 130	13	20
C10-C28f											

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

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

Lab Sample ID: 880-49382-1 MS

Matrix: Solid

Analysis Batch: 92727

Client Sample ID: HA-1

Prep Type: Total/NA

Prep Batch: 92602

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				Limits	
Gasoline Ran7e) r7anics	U50g	K	996	1005		m7/B7		101	z0 - 130	
vGR) f-C6-C10										
Diesel Ran7e) r7anics v) Mer	U50g	K	996	822g		m7/B7		81	z0 - 130	
C10-C28f										
Surrogate	MS	MS								
	%Recovery	Qualifier	Limits							
1-h cloroot 0ne	171		+7 - 107							
o-Terpcenvl	+		+7 - 107							

Lab Sample ID: 880-49382-1 MSD

Matrix: Solid

Analysis Batch: 92727

Client Sample ID: HA-1

Prep Type: Total/NA

Prep Batch: 92602

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Gasoline Ran7e) r7anics vGR) f-C6-C10	U50g	K	996	9z6g		m7/B7		98	z0 - 130	3	20
Diesel Ran7e) r7anics v) Mer C10-C28f	U50g	K	996	z81g		m7/B7		zz	z0 - 130	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-h cloroot 0ne	: ,		+7 - 107								
o-Terpcenyl	: 2		+7 - 107								

Lab Sample ID: MB 880-92604/1-A

Matrix: Solid

Analysis Batch: 92730

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 92604

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Ran7e) r7anics vGR) f-C6-C10	U50g	K	50g		m7/B7		10/04/24 15:21	10/08/24 01:05	1
Diesel Ran7e) r7anics v) Mer C10-C28f	U50g	K	50g		m7/B7		10/04/24 15:21	10/08/24 01:05	1
) il Ran7e) r7anics v) Mer C28-C36f	U50g	K	50g		m7/B7		10/04/24 15:21	10/08/24 01:05	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-h chloroot @ne	175		+7 - 107				173/ 24 1521	173/ 24 7185	1
o-Terpcenyl	175		+7 - 107				173/ 24 1521	173/ 24 7185	1

Lab Sample ID: LCS 880-92604/2-A

Matrix: Solid

Analysis Batch: 92730

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 92604

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
Gasoline Ran7e) r7anics	1000	1025		m7/B7		102	20 - 130
vGR) f-C6-C10							
Diesel Ran7e) r7anics v) Mer	1000	1005		m7/B7		101	20 - 130
C10-C28f							

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

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

Lab Sample ID: LCS 880-92604/2-A

Matrix: Solid

Analysis Batch: 92730

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 92604

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-h chloroot @ne	114		+7 - 107
o-Terpcenyl	11+		+7 - 107

Lab Sample ID: LCSD 880-92604/3-A

Matrix: Solid

Analysis Batch: 92730

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 92604

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Ran7e) r7anics			1000	1085		m7/B7		109	z0 - 130	1	20
vGR) f-C6-C10											
Diesel Ran7e) r7anics v) Mer			1000	1016		m7/B7		102	z0 - 130	1	20
C10-C28f											
Surrogate		LCSD	LCSD								
	%Recovery	Qualifier	Limits								
1-h chloroot @ne	115		+7 - 107								
o-Terpcenyl	11/		+7 - 107								

Lab Sample ID: 880-49382-25 MS

Matrix: Solid

Analysis Batch: 92730

Client Sample ID: HA-12

Prep Type: Total/NA

Prep Batch: 92604

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Ran7e) r7anics	U50g	K	996	1011		m7/B7		102	z0 - 130		
vGR) f-C6-C10											
Diesel Ran7e) r7anics v) Mer	U50g	K	996	999g		m7/B7		100	z0 - 130		
C10-C28f											
Surrogate		MS	MS								
	%Recovery	Qualifier	Limits								
1-h chloroot @ne	114		+7 - 107								
o-Terpcenyl	11:		+7 - 107								

Lab Sample ID: 880-49382-25 MSD

Matrix: Solid

Analysis Batch: 92730

Client Sample ID: HA-12

Prep Type: Total/NA

Prep Batch: 92604

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Ran7e) r7anics	U50g	K	996	1008		m7/B7		101	z0 - 130	0	20
vGR) f-C6-C10											
Diesel Ran7e) r7anics v) Mer	U50g	K	996	963g		m7/B7		9z	z0 - 130	4	20
C10-C28f											
Surrogate		MSD	MSD								
	%Recovery	Qualifier	Limits								
1-h chloroot @ne	111		+7 - 107								
o-Terpcenyl	115		+7 - 107								

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-92618/1-A

Matrix: Solid

Analysis Batch: 92700

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	U5g0	K	5g00		m7/B7			10/0z/24 18:06	1

Lab Sample ID: LCS 880-92618/2-A

Matrix: Solid

Analysis Batch: 92700

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	232g		m7/B7		93	90 - 110

Lab Sample ID: LCSD 880-92618/3-A

Matrix: Solid

Analysis Batch: 92700

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	228g		m7/B7		91	90 - 110	2	20

Lab Sample ID: 880-49382-20 MS

Matrix: Solid

Analysis Batch: 92700

Client Sample ID: HA-8

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	84g		248	310g		m7/B7		91	90 - 110

Lab Sample ID: 880-49382-20 MSD

Matrix: Solid

Analysis Batch: 92700

Client Sample ID: HA-8

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	84g		248	313g		m7/B7		92	90 - 110	1	20

Lab Sample ID: MB 880-92615/1-A

Matrix: Solid

Analysis Batch: 92740

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	U5g0	K	5g00		m7/B7			10/08/24 10:20	1

Lab Sample ID: LCS 880-92615/2-A

Matrix: Solid

Analysis Batch: 92740

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	236g		m7/B7		95	90 - 110

Lab Sample ID: LCSD 880-92615/3-A

Matrix: Solid

Analysis Batch: 92740

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	232g		m7/B7		93	90 - 110	2	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-49382-8 MS										Client Sample ID: HA-3		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 92740												
	Sample	Sample	Spike	MS	MS				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	1850	F1	1240	2814	F1	m7/B7		z8	90 - 110			

Lab Sample ID: 880-49382-8 MSD										Client Sample ID: HA-3		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 92740												
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	1850	F1	1240	2811	F1	m7/B7		z8	90 - 110	0	20	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

GC VOA

Analysis Batch: 92652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49382-1	HA-1	Total/NA	Solid	8021B	92654
880-49382-2	HA-1	Total/NA	Solid	8021B	92654
880-49382-4	HA-2	Total/NA	Solid	8021B	92654
880-49382-5	HA-2	Total/NA	Solid	8021B	92654
880-49382-7	HA-3	Total/NA	Solid	8021B	92654
880-49382-8	HA-3	Total/NA	Solid	8021B	92654
880-49382-9	HA-4	Total/NA	Solid	8021B	92654
880-49382-10	HA-4	Total/NA	Solid	8021B	92654
880-49382-12	HA-5	Total/NA	Solid	8021B	92654
880-49382-13	HA-5	Total/NA	Solid	8021B	92654
880-49382-15	HA-6	Total/NA	Solid	8021B	92654
880-49382-16	HA-6	Total/NA	Solid	8021B	92654
880-49382-17	HA-7	Total/NA	Solid	8021B	92654
880-49382-18	HA-7	Total/NA	Solid	8021B	92654
880-49382-19	HA-8	Total/NA	Solid	8021B	92654
880-49382-20	HA-8	Total/NA	Solid	8021B	92654
880-49382-21	HA-9	Total/NA	Solid	8021B	92654
880-49382-22	HA-9	Total/NA	Solid	8021B	92654
880-49382-23	HA-10	Total/NA	Solid	8021B	92654
880-49382-24	HA-11	Total/NA	Solid	8021B	92654
MB 880-92654/5-A	Method Blank	Total/NA	Solid	8021B	92654
LCS 880-92654/1-A	Lab Control Sample	Total/NA	Solid	8021B	92654
LCSD 880-92654/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	92654
880-49382-1 MS	HA-1	Total/NA	Solid	8021B	92654
880-49382-1 MSD	HA-1	Total/NA	Solid	8021B	92654

Prep Batch: 92654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49382-1	HA-1	Total/NA	Solid	5035	
880-49382-2	HA-1	Total/NA	Solid	5035	
880-49382-4	HA-2	Total/NA	Solid	5035	
880-49382-5	HA-2	Total/NA	Solid	5035	
880-49382-7	HA-3	Total/NA	Solid	5035	
880-49382-8	HA-3	Total/NA	Solid	5035	
880-49382-9	HA-4	Total/NA	Solid	5035	
880-49382-10	HA-4	Total/NA	Solid	5035	
880-49382-12	HA-5	Total/NA	Solid	5035	
880-49382-13	HA-5	Total/NA	Solid	5035	
880-49382-15	HA-6	Total/NA	Solid	5035	
880-49382-16	HA-6	Total/NA	Solid	5035	
880-49382-17	HA-7	Total/NA	Solid	5035	
880-49382-18	HA-7	Total/NA	Solid	5035	
880-49382-19	HA-8	Total/NA	Solid	5035	
880-49382-20	HA-8	Total/NA	Solid	5035	
880-49382-21	HA-9	Total/NA	Solid	5035	
880-49382-22	HA-9	Total/NA	Solid	5035	
880-49382-23	HA-10	Total/NA	Solid	5035	
880-49382-24	HA-11	Total/NA	Solid	5035	
MB 880-92654/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-92654/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-92654/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

GC VOA (Continued)

Prep Batch: 92654 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49382-1 MS	HA-1	Total/NA	Solid	5035	
880-49382-1 MSD	HA-1	Total/NA	Solid	5035	

Analysis Batch: 92657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49382-25	HA-12	Total/NA	Solid	8021B	92667
880-49382-26	HA-12	Total/NA	Solid	8021B	92667
880-49382-27	HA-13	Total/NA	Solid	8021B	92667
MB 880-92667/5-A	Method Blank	Total/NA	Solid	8021B	92667
LCS 880-92667/1-A	Lab Control Sample	Total/NA	Solid	8021B	92667
LCSD 880-92667/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	92667
890-7210-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	92667
890-7210-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	92667

Prep Batch: 92667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49382-25	HA-12	Total/NA	Solid	5035	
880-49382-26	HA-12	Total/NA	Solid	5035	
880-49382-27	HA-13	Total/NA	Solid	5035	
MB 880-92667/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-92667/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-92667/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7210-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-7210-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 92708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49382-1	HA-1	Total/NA	Solid	Total BTEX	
880-49382-2	HA-1	Total/NA	Solid	Total BTEX	
880-49382-4	HA-2	Total/NA	Solid	Total BTEX	
880-49382-5	HA-2	Total/NA	Solid	Total BTEX	
880-49382-7	HA-3	Total/NA	Solid	Total BTEX	
880-49382-8	HA-3	Total/NA	Solid	Total BTEX	
880-49382-9	HA-4	Total/NA	Solid	Total BTEX	
880-49382-10	HA-4	Total/NA	Solid	Total BTEX	
880-49382-12	HA-5	Total/NA	Solid	Total BTEX	
880-49382-13	HA-5	Total/NA	Solid	Total BTEX	
880-49382-15	HA-6	Total/NA	Solid	Total BTEX	
880-49382-16	HA-6	Total/NA	Solid	Total BTEX	
880-49382-17	HA-7	Total/NA	Solid	Total BTEX	
880-49382-18	HA-7	Total/NA	Solid	Total BTEX	
880-49382-19	HA-8	Total/NA	Solid	Total BTEX	
880-49382-20	HA-8	Total/NA	Solid	Total BTEX	
880-49382-21	HA-9	Total/NA	Solid	Total BTEX	
880-49382-22	HA-9	Total/NA	Solid	Total BTEX	
880-49382-23	HA-10	Total/NA	Solid	Total BTEX	
880-49382-24	HA-11	Total/NA	Solid	Total BTEX	
880-49382-25	HA-12	Total/NA	Solid	Total BTEX	
880-49382-26	HA-12	Total/NA	Solid	Total BTEX	
880-49382-27	HA-13	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

GC Semi VOA

Prep Batch: 92602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49382-1	HA-1	Total/NA	Solid	8015NM Prep	
880-49382-2	HA-1	Total/NA	Solid	8015NM Prep	
880-49382-4	HA-2	Total/NA	Solid	8015NM Prep	
880-49382-5	HA-2	Total/NA	Solid	8015NM Prep	
880-49382-7	HA-3	Total/NA	Solid	8015NM Prep	
880-49382-8	HA-3	Total/NA	Solid	8015NM Prep	
880-49382-9	HA-4	Total/NA	Solid	8015NM Prep	
880-49382-10	HA-4	Total/NA	Solid	8015NM Prep	
880-49382-12	HA-5	Total/NA	Solid	8015NM Prep	
880-49382-13	HA-5	Total/NA	Solid	8015NM Prep	
880-49382-15	HA-6	Total/NA	Solid	8015NM Prep	
880-49382-16	HA-6	Total/NA	Solid	8015NM Prep	
880-49382-17	HA-7	Total/NA	Solid	8015NM Prep	
880-49382-18	HA-7	Total/NA	Solid	8015NM Prep	
880-49382-19	HA-8	Total/NA	Solid	8015NM Prep	
880-49382-20	HA-8	Total/NA	Solid	8015NM Prep	
880-49382-21	HA-9	Total/NA	Solid	8015NM Prep	
880-49382-22	HA-9	Total/NA	Solid	8015NM Prep	
880-49382-23	HA-10	Total/NA	Solid	8015NM Prep	
880-49382-24	HA-11	Total/NA	Solid	8015NM Prep	
MB 880-92602/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-92602/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-92602/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49382-1 MS	HA-1	Total/NA	Solid	8015NM Prep	
880-49382-1 MSD	HA-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 92604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49382-25	HA-12	Total/NA	Solid	8015NM Prep	
880-49382-26	HA-12	Total/NA	Solid	8015NM Prep	
880-49382-27	HA-13	Total/NA	Solid	8015NM Prep	
MB 880-92604/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-92604/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-92604/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49382-25 MS	HA-12	Total/NA	Solid	8015NM Prep	
880-49382-25 MSD	HA-12	Total/NA	Solid	8015NM Prep	

Analysis Batch: 92727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49382-1	HA-1	Total/NA	Solid	8015B NM	92602
880-49382-2	HA-1	Total/NA	Solid	8015B NM	92602
880-49382-4	HA-2	Total/NA	Solid	8015B NM	92602
880-49382-5	HA-2	Total/NA	Solid	8015B NM	92602
880-49382-7	HA-3	Total/NA	Solid	8015B NM	92602
880-49382-8	HA-3	Total/NA	Solid	8015B NM	92602
880-49382-9	HA-4	Total/NA	Solid	8015B NM	92602
880-49382-10	HA-4	Total/NA	Solid	8015B NM	92602
880-49382-12	HA-5	Total/NA	Solid	8015B NM	92602
880-49382-13	HA-5	Total/NA	Solid	8015B NM	92602
880-49382-15	HA-6	Total/NA	Solid	8015B NM	92602
880-49382-16	HA-6	Total/NA	Solid	8015B NM	92602

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

GC Semi VOA (Continued)

Analysis Batch: 92727 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49382-17	HA-7	Total/NA	Solid	8015B NM	92602
880-49382-18	HA-7	Total/NA	Solid	8015B NM	92602
880-49382-19	HA-8	Total/NA	Solid	8015B NM	92602
880-49382-20	HA-8	Total/NA	Solid	8015B NM	92602
880-49382-21	HA-9	Total/NA	Solid	8015B NM	92602
880-49382-22	HA-9	Total/NA	Solid	8015B NM	92602
880-49382-23	HA-10	Total/NA	Solid	8015B NM	92602
880-49382-24	HA-11	Total/NA	Solid	8015B NM	92602
MB 880-92602/1-A	Method Blank	Total/NA	Solid	8015B NM	92602
LCS 880-92602/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	92602
LCSD 880-92602/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	92602
880-49382-1 MS	HA-1	Total/NA	Solid	8015B NM	92602
880-49382-1 MSD	HA-1	Total/NA	Solid	8015B NM	92602

Analysis Batch: 92730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49382-25	HA-12	Total/NA	Solid	8015B NM	92604
880-49382-26	HA-12	Total/NA	Solid	8015B NM	92604
880-49382-27	HA-13	Total/NA	Solid	8015B NM	92604
MB 880-92604/1-A	Method Blank	Total/NA	Solid	8015B NM	92604
LCS 880-92604/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	92604
LCSD 880-92604/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	92604
880-49382-25 MS	HA-12	Total/NA	Solid	8015B NM	92604
880-49382-25 MSD	HA-12	Total/NA	Solid	8015B NM	92604

Analysis Batch: 92798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49382-1	HA-1	Total/NA	Solid	8015 NM	
880-49382-2	HA-1	Total/NA	Solid	8015 NM	
880-49382-4	HA-2	Total/NA	Solid	8015 NM	
880-49382-5	HA-2	Total/NA	Solid	8015 NM	
880-49382-7	HA-3	Total/NA	Solid	8015 NM	
880-49382-8	HA-3	Total/NA	Solid	8015 NM	
880-49382-9	HA-4	Total/NA	Solid	8015 NM	
880-49382-10	HA-4	Total/NA	Solid	8015 NM	
880-49382-12	HA-5	Total/NA	Solid	8015 NM	
880-49382-13	HA-5	Total/NA	Solid	8015 NM	
880-49382-15	HA-6	Total/NA	Solid	8015 NM	
880-49382-16	HA-6	Total/NA	Solid	8015 NM	
880-49382-17	HA-7	Total/NA	Solid	8015 NM	
880-49382-18	HA-7	Total/NA	Solid	8015 NM	
880-49382-19	HA-8	Total/NA	Solid	8015 NM	
880-49382-20	HA-8	Total/NA	Solid	8015 NM	
880-49382-21	HA-9	Total/NA	Solid	8015 NM	
880-49382-22	HA-9	Total/NA	Solid	8015 NM	
880-49382-23	HA-10	Total/NA	Solid	8015 NM	
880-49382-24	HA-11	Total/NA	Solid	8015 NM	
880-49382-25	HA-12	Total/NA	Solid	8015 NM	
880-49382-26	HA-12	Total/NA	Solid	8015 NM	
880-49382-27	HA-13	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

HPLC/IC

Leach Batch: 92615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49382-1	HA-1	Soluble	Solid	DI Leach	
880-49382-2	HA-1	Soluble	Solid	DI Leach	
880-49382-4	HA-2	Soluble	Solid	DI Leach	
880-49382-5	HA-2	Soluble	Solid	DI Leach	
880-49382-7	HA-3	Soluble	Solid	DI Leach	
880-49382-8	HA-3	Soluble	Solid	DI Leach	
880-49382-9	HA-4	Soluble	Solid	DI Leach	
880-49382-10	HA-4	Soluble	Solid	DI Leach	
880-49382-12	HA-5	Soluble	Solid	DI Leach	
880-49382-13	HA-5	Soluble	Solid	DI Leach	
880-49382-15	HA-6	Soluble	Solid	DI Leach	
880-49382-16	HA-6	Soluble	Solid	DI Leach	
880-49382-17	HA-7	Soluble	Solid	DI Leach	
880-49382-18	HA-7	Soluble	Solid	DI Leach	
880-49382-19	HA-8	Soluble	Solid	DI Leach	
MB 880-92615/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-92615/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-92615/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49382-8 MS	HA-3	Soluble	Solid	DI Leach	
880-49382-8 MSD	HA-3	Soluble	Solid	DI Leach	

Leach Batch: 92618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49382-20	HA-8	Soluble	Solid	DI Leach	
880-49382-21	HA-9	Soluble	Solid	DI Leach	
880-49382-22	HA-9	Soluble	Solid	DI Leach	
880-49382-23	HA-10	Soluble	Solid	DI Leach	
880-49382-24	HA-11	Soluble	Solid	DI Leach	
880-49382-25	HA-12	Soluble	Solid	DI Leach	
880-49382-26	HA-12	Soluble	Solid	DI Leach	
880-49382-27	HA-13	Soluble	Solid	DI Leach	
MB 880-92618/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-92618/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-92618/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49382-20 MS	HA-8	Soluble	Solid	DI Leach	
880-49382-20 MSD	HA-8	Soluble	Solid	DI Leach	

Analysis Batch: 92700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49382-20	HA-8	Soluble	Solid	300.0	92618
880-49382-21	HA-9	Soluble	Solid	300.0	92618
880-49382-22	HA-9	Soluble	Solid	300.0	92618
880-49382-23	HA-10	Soluble	Solid	300.0	92618
880-49382-24	HA-11	Soluble	Solid	300.0	92618
880-49382-25	HA-12	Soluble	Solid	300.0	92618
880-49382-26	HA-12	Soluble	Solid	300.0	92618
880-49382-27	HA-13	Soluble	Solid	300.0	92618
MB 880-92618/1-A	Method Blank	Soluble	Solid	300.0	92618
LCS 880-92618/2-A	Lab Control Sample	Soluble	Solid	300.0	92618
LCSD 880-92618/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	92618
880-49382-20 MS	HA-8	Soluble	Solid	300.0	92618

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

HPLC/IC (Continued)

Analysis Batch: 92700 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49382-20 MSD	HA-8	Soluble	Solid	300.0	92618

Analysis Batch: 92740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-49382-1	HA-1	Soluble	Solid	300.0	92615
880-49382-2	HA-1	Soluble	Solid	300.0	92615
880-49382-4	HA-2	Soluble	Solid	300.0	92615
880-49382-5	HA-2	Soluble	Solid	300.0	92615
880-49382-7	HA-3	Soluble	Solid	300.0	92615
880-49382-8	HA-3	Soluble	Solid	300.0	92615
880-49382-9	HA-4	Soluble	Solid	300.0	92615
880-49382-10	HA-4	Soluble	Solid	300.0	92615
880-49382-12	HA-5	Soluble	Solid	300.0	92615
880-49382-13	HA-5	Soluble	Solid	300.0	92615
880-49382-15	HA-6	Soluble	Solid	300.0	92615
880-49382-16	HA-6	Soluble	Solid	300.0	92615
880-49382-17	HA-7	Soluble	Solid	300.0	92615
880-49382-18	HA-7	Soluble	Solid	300.0	92615
880-49382-19	HA-8	Soluble	Solid	300.0	92615
MB 880-92615/1-A	Method Blank	Soluble	Solid	300.0	92615
LCS 880-92615/2-A	Lab Control Sample	Soluble	Solid	300.0	92615
LCSD 880-92615/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	92615
880-49382-8 MS	HA-3	Soluble	Solid	300.0	92615
880-49382-8 MSD	HA-3	Soluble	Solid	300.0	92615

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-1
Date Collected: 10/03/24 09:00
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-1
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	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 11:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 11:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 01:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 01:53	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	92615	10/04/24 16:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92740	10/08/24 11:37	CH	EET MID

Client Sample ID: HA-1
Date Collected: 10/03/24 09:05
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-2
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			5.05 g	5 mL	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 12:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 12:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 02:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 02:38	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92615	10/04/24 16:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92740	10/08/24 11:44	CH	EET MID

Client Sample ID: HA-2
Date Collected: 10/03/24 09:15
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-4
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	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 12:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 12:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 02:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 02:53	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	92615	10/04/24 16:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92740	10/08/24 11:50	CH	EET MID

Client Sample ID: HA-2
Date Collected: 10/03/24 09:20
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-5
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			4.03 g	5 mL	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 12:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 12:41	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-2
Date Collected: 10/03/24 09:20
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			92798	10/08/24 03:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 03:09	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92615	10/04/24 16:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92740	10/08/24 11:57	CH	EET MID

Client Sample ID: HA-3
Date Collected: 10/03/24 09:30
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-7
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	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 13:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 13:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 03:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 03:24	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	92615	10/04/24 16:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92740	10/08/24 12:03	CH	EET MID

Client Sample ID: HA-3
Date Collected: 10/03/24 09:35
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-8
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			4.98 g	5 mL	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 13:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 13:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 03:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 03:39	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	92615	10/04/24 16:35	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92740	10/08/24 12:09	CH	EET MID

Client Sample ID: HA-4
Date Collected: 10/03/24 09:40
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-9
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			4.97 g	5 mL	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 13:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 13:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 03:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 03:54	TKC	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-4
Date Collected: 10/03/24 09:40
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-9
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			5.04 g	50 mL	92615	10/04/24 16:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92740	10/08/24 12:29	CH	EET MID

Client Sample ID: HA-4
Date Collected: 10/03/24 09:45
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-10
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	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 14:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 14:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 04:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 04:10	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	92615	10/04/24 16:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92740	10/08/24 12:35	CH	EET MID

Client Sample ID: HA-5
Date Collected: 10/03/24 09:55
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-12
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			5.03 g	5 mL	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 14:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 14:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 04:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 04:25	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	92615	10/04/24 16:35	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92740	10/08/24 12:54	CH	EET MID

Client Sample ID: HA-5
Date Collected: 10/03/24 10:00
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-13
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			4.97 g	5 mL	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 14:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 14:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 04:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 04:41	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	92615	10/04/24 16:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92740	10/08/24 13:01	CH	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-6
Date Collected: 10/03/24 10:10
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-15
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			4.98 g	5 mL	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 16:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 16:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 05:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 05:12	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	92615	10/04/24 16:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92740	10/08/24 13:07	CH	EET MID

Client Sample ID: HA-6
Date Collected: 10/03/24 10:15
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-16
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	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 16:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 16:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 05:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 05:27	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	92615	10/04/24 16:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92740	10/08/24 13:14	CH	EET MID

Client Sample ID: HA-7
Date Collected: 10/03/24 10:20
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-17
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	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 17:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 17:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 05:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 05:43	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92615	10/04/24 16:35	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92740	10/08/24 13:20	CH	EET MID

Client Sample ID: HA-7
Date Collected: 10/03/24 11:10
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-18
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	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 17:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 17:20	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-7
Date Collected: 10/03/24 11:10
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-18
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			92798	10/08/24 05:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 05:58	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	92615	10/04/24 16:35	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92740	10/08/24 13:27	CH	EET MID

Client Sample ID: HA-8
Date Collected: 10/03/24 11:25
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-19
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	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 17:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 17:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 06:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 06:14	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	92615	10/04/24 16:35	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92740	10/08/24 13:33	CH	EET MID

Client Sample ID: HA-8
Date Collected: 10/03/24 10:30
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-20
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	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 18:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 18:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 06:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 06:29	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	92618	10/04/24 16:38	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92700	10/07/24 18:25	CH	EET MID

Client Sample ID: HA-9
Date Collected: 10/03/24 10:35
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-21
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			5.01 g	5 mL	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 18:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 18:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 06:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 06:45	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-9
Date Collected: 10/03/24 10:35
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-21
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			5.04 g	50 mL	92618	10/04/24 16:38	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92700	10/07/24 18:45	CH	EET MID

Client Sample ID: HA-9
Date Collected: 10/03/24 10:40
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-22
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			4.97 g	5 mL	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 18:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 07:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 07:00	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	92618	10/04/24 16:38	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92700	10/07/24 18:51	CH	EET MID

Client Sample ID: HA-10
Date Collected: 10/03/24 10:45
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-23
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			4.95 g	5 mL	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 19:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 19:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 07:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 07:15	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	92618	10/04/24 16:38	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92700	10/07/24 18:57	CH	EET MID

Client Sample ID: HA-11
Date Collected: 10/03/24 10:50
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-24
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			4.96 g	5 mL	92654	10/07/24 08:14	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92652	10/08/24 19:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/08/24 19:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 07:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	92602	10/04/24 15:17	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92727	10/08/24 07:30	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	92618	10/04/24 16:38	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92700	10/07/24 19:04	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Client Sample ID: HA-12
Date Collected: 10/03/24 10:55
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-25
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	92667	10/07/24 09:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92657	10/07/24 12:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/07/24 12:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 01:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	92604	10/04/24 15:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92730	10/08/24 01:53	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	92618	10/04/24 16:38	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	92700	10/07/24 19:23	CH	EET MID

Client Sample ID: HA-12
Date Collected: 10/03/24 11:00
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-26
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	92667	10/07/24 09:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92657	10/07/24 12:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/07/24 12:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 02:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	92604	10/04/24 15:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92730	10/08/24 02:38	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	92618	10/04/24 16:38	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92700	10/07/24 19:30	CH	EET MID

Client Sample ID: HA-13
Date Collected: 10/03/24 11:05
Date Received: 10/04/24 10:40

Lab Sample ID: 880-49382-27
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	92667	10/07/24 09:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	92657	10/07/24 13:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			92708	10/07/24 13:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			92798	10/08/24 02:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10.00 mL	92604	10/04/24 15:21	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	92730	10/08/24 02:53	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	92618	10/04/24 16:38	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	92700	10/07/24 19:36	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: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

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: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

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: Talco State Federal Com #222H

Job ID: 880-49382-1
SDG: 2296

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-49382-1	HA-1	Solid	10/03/24 09:00	10/04/24 10:40	0.5
880-49382-2	HA-1	Solid	10/03/24 09:05	10/04/24 10:40	1
880-49382-4	HA-2	Solid	10/03/24 09:15	10/04/24 10:40	0.5
880-49382-5	HA-2	Solid	10/03/24 09:20	10/04/24 10:40	1
880-49382-7	HA-3	Solid	10/03/24 09:30	10/04/24 10:40	0.5
880-49382-8	HA-3	Solid	10/03/24 09:35	10/04/24 10:40	1
880-49382-9	HA-4	Solid	10/03/24 09:40	10/04/24 10:40	0.5
880-49382-10	HA-4	Solid	10/03/24 09:45	10/04/24 10:40	1
880-49382-12	HA-5	Solid	10/03/24 09:55	10/04/24 10:40	0.5
880-49382-13	HA-5	Solid	10/03/24 10:00	10/04/24 10:40	1
880-49382-15	HA-6	Solid	10/03/24 10:10	10/04/24 10:40	0.5
880-49382-16	HA-6	Solid	10/03/24 10:15	10/04/24 10:40	1
880-49382-17	HA-7	Solid	10/03/24 10:20	10/04/24 10:40	0.5
880-49382-18	HA-7	Solid	10/03/24 11:10	10/04/24 10:40	1
880-49382-19	HA-8	Solid	10/03/24 11:25	10/04/24 10:40	0.5
880-49382-20	HA-8	Solid	10/03/24 10:30	10/04/24 10:40	1
880-49382-21	HA-9	Solid	10/03/24 10:35	10/04/24 10:40	0.5
880-49382-22	HA-9	Solid	10/03/24 10:40	10/04/24 10:40	1
880-49382-23	HA-10	Solid	10/03/24 10:45	10/04/24 10:40	0.5
880-49382-24	HA-11	Solid	10/03/24 10:50	10/04/24 10:40	0.5
880-49382-25	HA-12	Solid	10/03/24 10:55	10/04/24 10:40	0.5
880-49382-26	HA-12	Solid	10/03/24 11:00	10/04/24 10:40	1
880-49382-27	HA-13	Solid	10/03/24 11:05	10/04/24 10:40	0.5



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: 49382

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Page 2 of 3

Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
Address:	5114 West County Road 128	Address:	
City, State ZIP:	Midland TX 79705	City, State ZIP:	
Phone:	432-894-6385	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:		Turn Around		ANALYSIS REQUEST												Preservative Codes						
Talco State Federal Com #222H		☒ Routine ☐ Rush														None: NO DI Water: H ₂ O						
Project Number: 2296		Due Date:														Cool: Cool MeOH: Me						
Project Location:		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC HNO ₃ : HN						
Sampler's Name: Joey Pinson																H ₂ SO ₄ : H ₂ NaOH: Na						
PO #:																H ₃ PO ₄ : HP						
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No	Parameters													Sample Comments			
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	Chloride NM	TPH NM	BTEX NM	HOLD												
HA-4	S	10/3/2024	9:45	1	Grab	1	X	X	X													
HA-4	S	10/3/2024	9:50	2	Grab	1				X												
HA-5	S	10/3/2024	9:55	0.5	Grab	1	X	X	X													
HA-5	S	10/3/2024	10:00	1	Grab	1	X	X	X													
HA-5	S	10/3/2024	10:05	2	Grab	1				X												
HA-6	S	10/3/2024	10:10	0.5	Grab	1	X	X	X													
HA-6	S	10/3/2024	10:15	1	Grab	1	X	X	X													
HA-7	S	10/3/2024	10:20	0.5	Grab	1	X	X	X													
HA-7	S	10/3/2024	11:10	1	Grab	1	X	X	X													

Total 200.7 / 6010 200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb 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
		10/4 1040			

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:

49382

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Page 3 of 3

Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
Address:	5114 West County Road 128	Address:	
City, State ZIP:	Midland TX 79705	City, State ZIP:	
Phone:	432-894-6385	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:		Turn Around		ANALYSIS REQUEST												Preservative Codes				
Project Number:	2296	☒ Routine ☐ Rush		Pres. Code													None: NO	DI Water: H ₂ O		
Project Location:		Due Date:		Parameters	Chloride NM	TPH NM	BYEX NM	HOLD									Cool. Cool	MeOH: Me		
Sampler's Name:	Joey Pinson	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 : HF	
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										Sample Comments			
HA-8		S	10/3/2024	10:25	0.5	Grab	1	X	X	X										
HA-8		S	10/3/2024	10:30	1	Grab	1	X	X	X										
HA-9		S	10/3/2024	10:35	0.5	Grab	1	X	X	X										
HA-9		S	10/3/2024	10:40	1	Grab	1	X	X	X										
HA-10		S	10/3/2024	10:45	0.5	Grab	1	X	X	X										
HA-11		S	10/3/2024	10:50	0.5	Grab	1	X	X	X										
HA-12		S	10/3/2024	10:55	0.5	Grab	1	X	X	X										
HA-12		S	10/3/2024	11:00	1	Grab	1	X	X	X										
HA-13		S	10/3/2024	11:05	0.5	Grab	1	X	X	X										

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas	11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	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		10/4 1040	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-49382-1

SDG Number: 2296

Login Number: 49382
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/22/2024 3:47:40 PM

JOB DESCRIPTION

Talco State
Lea County

JOB NUMBER

880-49951-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

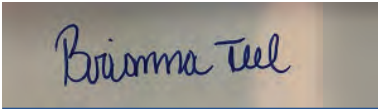
Eurofins Midland

Job Notes

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

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

Authorization



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10/22/2024 3:47:40 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: Talco State

Laboratory Job ID: 880-49951-1
SDG: Lea County

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
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.
☼	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: Talco State

Job ID: 880-49951-1

Job ID: 880-49951-1

Eurofins Midland

Job Narrative 880-49951-1

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 10/17/2024 3:45 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 20.2°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 surrogate recovery for the blank associated with preparation batch 880-93619 and analytical batch 880-93669 was outside the upper control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-93619 and analytical batch 880-93669 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: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: HA-11 (880-49951-7), HA-14 (880-49951-8), (LCS 880-93619/2-A) and (LCSD 880-93619/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA-6 (880-49951-1), HA-7 (880-49951-2), HA-10 (880-49951-6), HA-14 (880-49951-9), HA-14 (880-49951-10), HA-15 (880-49951-12), HA-16 (880-49951-15), HA-17 (880-49951-18), HA-18 (880-49951-19) and HA-18 (880-49951-20). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-93653 and analytical batch 880-93701 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: (LCS 880-93653/2-A) and (LCSD 880-93653/3-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 880-93618 and analytical batch 880-93710 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 Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-6

Lab Sample ID: 880-49951-1

Date Collected: 10/17/24 08:00

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/18/24 16:53	10/21/24 12:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/18/24 16:53	10/21/24 12:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/18/24 16:53	10/21/24 12:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/18/24 16:53	10/21/24 12:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/18/24 16:53	10/21/24 12:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/18/24 16:53	10/21/24 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		6+ - 15+	1+710734 1/25	1+71734 13218	1
1:4-, Difluorobenzene (Surr)	16		6+ - 15+	1+710734 1/25	1+71734 13218	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			10/21/24 12:15	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			10/18/24 14:25	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	<50.0	U **	50.0		mg/Kg		10/18/24 08:36	10/18/24 14:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		10/18/24 08:36	10/18/24 14:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/18/24 08:36	10/18/24 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S19	6+ - 15+	1+710734 +025/	1+710734 14238	1
o-Terphenyl	138		6+ - 15+	1+710734 +025/	1+710734 14238	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		10.0		mg/Kg			10/20/24 10:15	1

Client Sample ID: HA-7

Lab Sample ID: 880-49951-2

Date Collected: 10/17/24 07:50

Matrix: Solid

Date Received: 10/17/24 15:45

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		10/18/24 16:53	10/21/24 12:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 12:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 12:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/18/24 16:53	10/21/24 12:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 12:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/18/24 16:53	10/21/24 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135		6+ - 15+	1+710734 1/25	1+71734 1325/	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-7

Lab Sample ID: 880-49951-2

Date Collected: 10/17/24 07:50

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1:4-, mluorobenzene (Surr)	i 8		6+ - 15+	1+710734 1/ 25	1+71734 1325/	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			10/21/24 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/18/24 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U **	49.9		mg/Kg		10/18/24 08:36	10/18/24 15:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		10/18/24 08:36	10/18/24 15:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/18/24 08:36	10/18/24 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	15i	S19	6+ - 15+	1+710734 +025/	1+710734 18215	1
o-Terphenyl	13/		6+ - 15+	1+710734 +025/	1+710734 18215	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.2		10.1		mg/Kg			10/20/24 10:31	1

Client Sample ID: HA-8

Lab Sample ID: 880-49951-3

Date Collected: 10/17/24 08:10

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 12:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 12:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 12:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/18/24 16:53	10/21/24 12:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 12:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/18/24 16:53	10/21/24 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		6+ - 15+	1+710734 1/ 25	1+71734 1325/	1
1:4-, mluorobenzene (Surr)	i 0		6+ - 15+	1+710734 1/ 25	1+71734 1325/	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			10/21/24 12:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/18/24 15:28	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-8
Date Collected: 10/17/24 08:10
Date Received: 10/17/24 15:45
Sample Depth: 2

Lab Sample ID: 880-49951-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U **	49.7		mg/Kg		10/18/24 08:36	10/18/24 15:28	1
Diesel Range Organics (Over C10-C28)	<49.7	U **	49.7		mg/Kg		10/18/24 08:36	10/18/24 15:28	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/18/24 08:36	10/18/24 15:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	15+		6+ - 15+				1+70734 +025/	1+70734 18230	1
o-Terphenyl	110		6+ - 15+				1+70734 +025/	1+70734 18230	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.3		10.0		mg/Kg			10/20/24 10:36	1

Client Sample ID: HA-9
Date Collected: 10/17/24 08:20
Date Received: 10/17/24 15:45
Sample Depth: 2

Lab Sample ID: 880-49951-4
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		10/18/24 16:53	10/21/24 13:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/18/24 16:53	10/21/24 13:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/18/24 16:53	10/21/24 13:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/18/24 16:53	10/21/24 13:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/18/24 16:53	10/21/24 13:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/18/24 16:53	10/21/24 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	11/		6+ - 15+				1+70734 1/ 25	1+731734 15216	1
1:4-, Difluorobenzene (Surr)	i /		6+ - 15+				1+70734 1/ 25	1+731734 15216	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			10/21/24 13:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/18/24 15:44	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	<49.7	U **	49.7		mg/Kg		10/18/24 08:36	10/18/24 15:44	1
Diesel Range Organics (Over C10-C28)	<49.7	U **	49.7		mg/Kg		10/18/24 08:36	10/18/24 15:44	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/18/24 08:36	10/18/24 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136		6+ - 15+				1+70734 +025/	1+70734 18244	1
o-Terphenyl	114		6+ - 15+				1+70734 +025/	1+70734 18244	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-9
Date Collected: 10/17/24 08:20
Date Received: 10/17/24 15:45
Sample Depth: 2

Lab Sample ID: 880-49951-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	227		10.0		mg/Kg			10/20/24 10:42	1

Client Sample ID: HA-10
Date Collected: 10/17/24 08:20
Date Received: 10/17/24 15:45
Sample Depth: 1

Lab Sample ID: 880-49951-5
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		10/18/24 16:53	10/21/24 13:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 13:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 13:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/18/24 16:53	10/21/24 13:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 13:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/18/24 16:53	10/21/24 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134		6+ - 15+				1+70734 1/ 25	1+71734 1526	1
1,4-, Difluorobenzene (Surr)	14		6+ - 15+				1+70734 1/ 25	1+71734 1526	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/21/24 13:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/18/24 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	<49.9	U **	49.9		mg/Kg		10/18/24 08:36	10/18/24 16:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		10/18/24 08:36	10/18/24 16:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/18/24 08:36	10/18/24 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138		6+ - 15+				1+70734 +025/	1+70734 1/ 2-3	1
o-Terphenyl	113		6+ - 15+				1+70734 +025/	1+70734 1/ 2-3	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.3		10.0		mg/Kg			10/20/24 10:47	1

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-10

Lab Sample ID: 880-49951-6

Date Collected: 10/17/24 08:25

Matrix: Solid

Date Received: 10/17/24 15:45

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		10/18/24 16:53	10/21/24 13:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 13:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 13:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/18/24 16:53	10/21/24 13:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 13:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/18/24 16:53	10/21/24 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		6+ - 15+	1+710734 1/25	1+71734 1520	1
1:4-, Difluorobenzene (Surr)	118		6+ - 15+	1+710734 1/25	1+71734 1520	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			10/21/24 13:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/18/24 16:18	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		10/18/24 08:36	10/18/24 16:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		10/18/24 08:36	10/18/24 16:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/18/24 08:36	10/18/24 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S19	6+ - 15+	1+710734 +025/	1+710734 1/210	1
o-Terphenyl	130		6+ - 15+	1+710734 +025/	1+710734 1/210	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.7		10.0		mg/Kg			10/20/24 11:03	1

Client Sample ID: HA-11

Lab Sample ID: 880-49951-7

Date Collected: 10/17/24 08:15

Matrix: Solid

Date Received: 10/17/24 15:45

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		10/18/24 16:53	10/21/24 14:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 14:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 14:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/18/24 16:53	10/21/24 14:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 14:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/18/24 16:53	10/21/24 14:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		6+ - 15+	1+710734 1/25	1+71734 14210	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-11

Lab Sample ID: 880-49951-7

Date Collected: 10/17/24 08:15

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1:4-, mFluorobenzene (Surr)	i 8		6+ - 15+	1+710734 1/ 25	1+71734 14210	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			10/21/24 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/18/24 16:34	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	<49.9	U *	49.9		mg/Kg		10/18/24 08:36	10/18/24 16:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U *	49.9		mg/Kg		10/18/24 08:36	10/18/24 16:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/18/24 08:36	10/18/24 16:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	183	S19	6+ - 15+				1+710734 +025/	1+710734 1/ 254	1
o-Terphenyl	158	S19	6+ - 15+				1+710734 +025/	1+710734 1/ 254	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		9.96		mg/Kg			10/20/24 11:09	1

Client Sample ID: HA-14

Lab Sample ID: 880-49951-8

Date Collected: 10/17/24 08:30

Matrix: Solid

Date Received: 10/17/24 15:45

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		10/18/24 16:53	10/21/24 14:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 14:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 14:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/18/24 16:53	10/21/24 14:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 14:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/18/24 16:53	10/21/24 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134		6+ - 15+	1+710734 1/ 25	1+71734 14250	1
1:4-, mFluorobenzene (Surr)	i 8		6+ - 15+	1+710734 1/ 25	1+71734 14250	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			10/21/24 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	<49.8	U	49.8		mg/Kg			10/18/24 16:51	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-14

Lab Sample ID: 880-49951-8

Date Collected: 10/17/24 08:30

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8		mg/Kg		10/18/24 08:36	10/18/24 16:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		10/18/24 08:36	10/18/24 16:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/18/24 08:36	10/18/24 16:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	16i	S19	6+ - 15+				1+70734 +025/	1+70734 1/ 281	1
o-Terphenyl	1/ 5	S19	6+ - 15+				1+70734 +025/	1+70734 1/ 281	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.3		10.0		mg/Kg			10/20/24 11:14	1

Client Sample ID: HA-14

Lab Sample ID: 880-49951-9

Date Collected: 10/17/24 08:35

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		10/18/24 16:53	10/21/24 14:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/18/24 16:53	10/21/24 14:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/18/24 16:53	10/21/24 14:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/18/24 16:53	10/21/24 14:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/18/24 16:53	10/21/24 14:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/18/24 16:53	10/21/24 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		6+ - 15+				1+70734 1/ 285	1+731734 1428i	1
1:4-, Difluorobenzene (Surr)	i /		6+ - 15+				1+70734 1/ 285	1+731734 1428i	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			10/21/24 14:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/18/24 17:07	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	<49.9	U **	49.9		mg/Kg		10/18/24 08:36	10/18/24 17:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		10/18/24 08:36	10/18/24 17:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/18/24 08:36	10/18/24 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	155	S19	6+ - 15+				1+70734 +025/	1+70734 16286	1
o-Terphenyl	133		6+ - 15+				1+70734 +025/	1+70734 16286	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-14

Lab Sample ID: 880-49951-9

Date Collected: 10/17/24 08:35

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.7		10.0		mg/Kg			10/20/24 11:20	1

Client Sample ID: HA-14

Lab Sample ID: 880-49951-10

Date Collected: 10/17/24 08:40

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 15:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 15:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 15:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/18/24 16:53	10/21/24 15:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 15:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/18/24 16:53	10/21/24 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		6+ - 15+				1+710734 1/ 25	1+71734 1821i	1
1,4-, Difluorobenzene (Surr)	18		6+ - 15+				1+710734 1/ 25	1+71734 1821i	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/21/24 15:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/18/24 17:23	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		10/18/24 08:36	10/18/24 17:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		10/18/24 08:36	10/18/24 17:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/18/24 08:36	10/18/24 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	15/	S19	6+ - 15+				1+710734 +025/	1+710734 16235	1
o-Terphenyl	133		6+ - 15+				1+710734 +025/	1+710734 16235	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.6		10.0		mg/Kg			10/20/24 11:25	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-15

Lab Sample ID: 880-49951-11

Date Collected: 10/17/24 08:45

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 16:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 16:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 16:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/18/24 16:53	10/21/24 16:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 16:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/18/24 16:53	10/21/24 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		6+ - 15+	1+710734 1/25	1+71734 1/243	1
1:4-, Difluorobenzene (Surr)	118		6+ - 15+	1+710734 1/25	1+71734 1/243	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			10/21/24 16:42	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			10/18/24 17:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U **	50.0		mg/Kg		10/18/24 08:36	10/18/24 17:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		10/18/24 08:36	10/18/24 17:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/18/24 08:36	10/18/24 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		6+ - 15+	1+710734 +025/	1+710734 16284	1
o-Terphenyl	114		6+ - 15+	1+710734 +025/	1+710734 16284	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.2	F1	10.0		mg/Kg			10/20/24 11:30	1

Client Sample ID: HA-15

Lab Sample ID: 880-49951-12

Date Collected: 10/17/24 08:50

Matrix: Solid

Date Received: 10/17/24 15:45

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		10/18/24 16:53	10/21/24 17:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 17:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 17:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/18/24 16:53	10/21/24 17:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 17:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/18/24 16:53	10/21/24 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		6+ - 15+	1+710734 1/25	1+71734 162-5	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-15

Lab Sample ID: 880-49951-12

Date Collected: 10/17/24 08:50

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-, Mfluorobenzene (Surr)	i 8		6+ - 15+	1+70734 1/25	1+71734 1625	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			10/21/24 17:03	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			10/18/24 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *+	49.7		mg/Kg		10/18/24 08:36	10/18/24 18:12	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7		mg/Kg		10/18/24 08:36	10/18/24 18:12	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/18/24 08:36	10/18/24 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	151	S19	6+ - 15+				1+70734 +025/	1+70734 10213	1
o-Terphenyl	118		6+ - 15+				1+70734 +025/	1+70734 10213	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.0		10.1		mg/Kg			10/20/24 12:03	1

Client Sample ID: HA-15

Lab Sample ID: 880-49951-13

Date Collected: 10/17/24 08:55

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 17:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 17:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 17:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/18/24 16:53	10/21/24 17:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 17:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/18/24 16:53	10/21/24 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133		6+ - 15+	1+70734 1/25	1+71734 16235	1
1,4-, Mfluorobenzene (Surr)	i 4		6+ - 15+	1+70734 1/25	1+71734 16235	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			10/21/24 17:23	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			10/18/24 18:28	1

Eurofins Midland

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-15

Lab Sample ID: 880-49951-13

Date Collected: 10/17/24 08:55

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U **	49.8		mg/Kg		10/18/24 08:36	10/18/24 18:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		10/18/24 08:36	10/18/24 18:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/18/24 08:36	10/18/24 18:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	13+		6+ - 15+				1+70734 +025/	1+70734 10230	1
o-Terphenyl	1+6		6+ - 15+				1+70734 +025/	1+70734 10230	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.4		9.92		mg/Kg			10/20/24 12:08	1

Client Sample ID: HA-16

Lab Sample ID: 880-49951-14

Date Collected: 10/17/24 09:00

Matrix: Solid

Date Received: 10/17/24 15:45

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		10/18/24 16:53	10/21/24 17:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/18/24 16:53	10/21/24 17:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/18/24 16:53	10/21/24 17:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/18/24 16:53	10/21/24 17:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/18/24 16:53	10/21/24 17:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/18/24 16:53	10/21/24 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		6+ - 15+				1+70734 1/ 25	1+731734 16244	1
1:4-, Difluorobenzene (Surr)	18		6+ - 15+				1+70734 1/ 25	1+731734 16244	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			10/21/24 17:44	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			10/18/24 18:43	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	<49.8	U **	49.8		mg/Kg		10/18/24 08:36	10/18/24 18:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		10/18/24 08:36	10/18/24 18:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/18/24 08:36	10/18/24 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	15+		6+ - 15+				1+70734 +025/	1+70734 10245	1
o-Terphenyl	110		6+ - 15+				1+70734 +025/	1+70734 10245	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-16

Lab Sample ID: 880-49951-14

Date Collected: 10/17/24 09:00

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.0		10.0		mg/Kg			10/20/24 12:24	1

Client Sample ID: HA-16

Lab Sample ID: 880-49951-15

Date Collected: 10/17/24 09:05

Matrix: Solid

Date Received: 10/17/24 15:45

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		10/18/24 16:53	10/21/24 18:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 18:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 18:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/18/24 16:53	10/21/24 18:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 18:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/18/24 16:53	10/21/24 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		6+ - 15+	1+710734 1/ 2B5	1+71734 102-4	1
1:4-, Difluorobenzene (Surr)	118		6+ - 15+	1+710734 1/ 2B5	1+71734 102-4	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/21/24 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/18/24 19:00	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	<50.0	U **	50.0		mg/Kg		10/18/24 08:36	10/18/24 19:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		10/18/24 08:36	10/18/24 19:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/18/24 08:36	10/18/24 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	155	S19	6+ - 15+	1+710734 +025/	1+710734 1i 2++	1
o-Terphenyl	116		6+ - 15+	1+710734 +025/	1+710734 1i 2++	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.8		9.94		mg/Kg			10/20/24 12:30	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-17

Lab Sample ID: 880-49951-16

Date Collected: 10/17/24 09:10

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 18:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 18:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 18:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/18/24 16:53	10/21/24 18:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/18/24 16:53	10/21/24 18:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/18/24 16:53	10/21/24 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	11/		6+ - 15+	1+710734 1/25	1+71734 1028	1
1:4-, Difluorobenzene (Surr)	i /		6+ - 15+	1+710734 1/25	1+71734 1028	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			10/21/24 18:25	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			10/18/24 19:16	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	<49.9	U **	49.9		mg/Kg		10/18/24 08:36	10/18/24 19:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9		mg/Kg		10/18/24 08:36	10/18/24 19:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/18/24 08:36	10/18/24 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	i 8		6+ - 15+	1+710734 +025/	1+710734 1i 2i/	1
o-Terphenyl	06		6+ - 15+	1+710734 +025/	1+710734 1i 2i/	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.2		9.96		mg/Kg			10/20/24 12:35	1

Client Sample ID: HA-17

Lab Sample ID: 880-49951-17

Date Collected: 10/17/24 09:15

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00167	U	0.00167		mg/Kg		10/18/24 16:53	10/21/24 18:45	1
Toluene	<0.00167	U	0.00167		mg/Kg		10/18/24 16:53	10/21/24 18:45	1
Ethylbenzene	<0.00167	U	0.00167		mg/Kg		10/18/24 16:53	10/21/24 18:45	1
m-Xylene & p-Xylene	<0.00334	U	0.00334		mg/Kg		10/18/24 16:53	10/21/24 18:45	1
o-Xylene	<0.00167	U	0.00167		mg/Kg		10/18/24 16:53	10/21/24 18:45	1
Xylenes, Total	<0.00334	U	0.00334		mg/Kg		10/18/24 16:53	10/21/24 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131		6+ - 15+	1+710734 1/25	1+71734 1028	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-17
Date Collected: 10/17/24 09:15
Date Received: 10/17/24 15:45
Sample Depth: 1

Lab Sample ID: 880-49951-17
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1:4-, mFluorobenzene (Surr)	i 5		6+ - 15+				1+710734 1/ 25	1+71734 10218	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00334	U	0.00334		mg/Kg			10/21/24 18:45	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/18/24 19:32	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	<49.8	U **	49.8		mg/Kg		10/18/24 08:36	10/18/24 19:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		10/18/24 08:36	10/18/24 19:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/18/24 08:36	10/18/24 19:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138		6+ - 15+				1+710734 +025/	1+710734 1i 23	1
o-Terphenyl	111		6+ - 15+				1+710734 +025/	1+710734 1i 23	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.2		9.92		mg/Kg			10/20/24 12:40	1

Client Sample ID: HA-17
Date Collected: 10/17/24 09:20
Date Received: 10/17/24 15:45
Sample Depth: 2

Lab Sample ID: 880-49951-18
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00181	U	0.00181		mg/Kg		10/18/24 16:53	10/21/24 19:06	1
Toluene	<0.00181	U	0.00181		mg/Kg		10/18/24 16:53	10/21/24 19:06	1
Ethylbenzene	<0.00181	U	0.00181		mg/Kg		10/18/24 16:53	10/21/24 19:06	1
m-Xylene & p-Xylene	<0.00363	U	0.00363		mg/Kg		10/18/24 16:53	10/21/24 19:06	1
o-Xylene	<0.00181	U	0.00181		mg/Kg		10/18/24 16:53	10/21/24 19:06	1
Xylenes, Total	<0.00363	U	0.00363		mg/Kg		10/18/24 16:53	10/21/24 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		6+ - 15+				1+710734 1/ 25	1+71734 1i 2-/	1
1:4-, mFluorobenzene (Surr)	i 8		6+ - 15+				1+710734 1/ 25	1+71734 1i 2-/	1
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00363	U	0.00363		mg/Kg			10/21/24 19:06	1
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/18/24 19:48	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-17

Lab Sample ID: 880-49951-18

Date Collected: 10/17/24 09:20

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U **	49.7		mg/Kg		10/18/24 08:36	10/18/24 19:48	1
Diesel Range Organics (Over C10-C28)	<49.7	U **	49.7		mg/Kg		10/18/24 08:36	10/18/24 19:48	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/18/24 08:36	10/18/24 19:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	158	S19	6+ - 15+				1+710734 +025/	1+710734 1i 240	1
o-Terphenyl	131		6+ - 15+				1+710734 +025/	1+710734 1i 240	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.5		10.1		mg/Kg			10/20/24 12:46	1

Client Sample ID: HA-18

Lab Sample ID: 880-49951-19

Date Collected: 10/17/24 09:25

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00169	U	0.00169		mg/Kg		10/18/24 16:53	10/21/24 19:26	1
Toluene	<0.00169	U	0.00169		mg/Kg		10/18/24 16:53	10/21/24 19:26	1
Ethylbenzene	<0.00169	U	0.00169		mg/Kg		10/18/24 16:53	10/21/24 19:26	1
m-Xylene & p-Xylene	<0.00338	U	0.00338		mg/Kg		10/18/24 16:53	10/21/24 19:26	1
o-Xylene	<0.00169	U	0.00169		mg/Kg		10/18/24 16:53	10/21/24 19:26	1
Xylenes, Total	<0.00338	U	0.00338		mg/Kg		10/18/24 16:53	10/21/24 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		6+ - 15+				1+710734 1/ 25	1+71734 1i 23/	1
1:4-, Difluorobenzene (Surr)	14		6+ - 15+				1+710734 1/ 25	1+71734 1i 23/	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00338	U	0.00338		mg/Kg			10/21/24 19:26	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			10/18/24 20:04	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	<50.0	U **	50.0		mg/Kg		10/18/24 08:36	10/18/24 20:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		10/18/24 08:36	10/18/24 20:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/18/24 08:36	10/18/24 20:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S19	6+ - 15+				1+710734 +025/	1+710734 3+2+4	1
o-Terphenyl	13+		6+ - 15+				1+710734 +025/	1+710734 3+2+4	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-18

Lab Sample ID: 880-49951-19

Date Collected: 10/17/24 09:25

Matrix: Solid

Date Received: 10/17/24 15:45

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.5		9.94		mg/Kg			10/20/24 12:52	1

Client Sample ID: HA-18

Lab Sample ID: 880-49951-20

Date Collected: 10/17/24 09:30

Matrix: Solid

Date Received: 10/17/24 15:45

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		10/18/24 16:53	10/21/24 19:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 19:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 19:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/18/24 16:53	10/21/24 19:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 19:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/18/24 16:53	10/21/24 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		6+ - 15+				1+710734 1/ 25	1+71734 1i 2i/	1
1:4-, Difluorobenzene (Surr)	18		6+ - 15+				1+710734 1/ 25	1+71734 1i 2i/	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/21/24 19:46	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			10/18/24 20:20	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		10/18/24 08:36	10/18/24 20:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8		mg/Kg		10/18/24 08:36	10/18/24 20:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/18/24 08:36	10/18/24 20:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S19	6+ - 15+				1+710734 +025/	1+710734 3+23+	1
o-Terphenyl	138		6+ - 15+				1+710734 +025/	1+710734 3+23+	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.9		10.1		mg/Kg			10/20/24 12:57	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-18
Date Collected: 10/17/24 09:35
Date Received: 10/17/24 15:45
Sample Depth: 2

Lab Sample ID: 880-49951-21
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		10/18/24 16:51	10/21/24 12:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:51	10/21/24 12:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:51	10/21/24 12:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/18/24 16:51	10/21/24 12:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:51	10/21/24 12:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/18/24 16:51	10/21/24 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	0i		6+ - 15+				1+710734 1/ 21	1+711734 1328/	1
1:4-, Difluorobenzene (Surr)	1+3		6+ - 15+				1+710734 1/ 21	1+711734 1328/	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/21/24 12:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/19/24 09:33	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	<50.0	U *1	50.0		mg/Kg		10/18/24 09:50	10/19/24 09:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U *+ *1	50.0		mg/Kg		10/18/24 09:50	10/19/24 09:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/18/24 09:50	10/19/24 09:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134		6+ - 15+				1+710734 +i 28+	1+71i 734 +i 25	1
o-Terphenyl	111		6+ - 15+				1+710734 +i 28+	1+71i 734 +i 25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.0		10.0		mg/Kg			10/21/24 16:16	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

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)				
880-49951-1	HA-6	113	97				
880-49951-1 MS	HA-6	108	96				
880-49951-1 MSD	HA-6	105	97				
880-49951-2	HA-7	123	95				
880-49951-3	HA-8	115	98				
880-49951-4	HA-9	116	96				
880-49951-5	HA-10	124	94				
880-49951-6	HA-10	118	95				
880-49951-7	HA-11	114	95				
880-49951-8	HA-14	124	95				
880-49951-9	HA-14	117	96				
880-49951-10	HA-14	117	95				
880-49951-11	HA-15	112	95				
880-49951-12	HA-15	116	95				
880-49951-13	HA-15	122	94				
880-49951-14	HA-16	114	95				
880-49951-15	HA-16	113	95				
880-49951-16	HA-17	116	96				
880-49951-17	HA-17	121	93				
880-49951-18	HA-17	113	95				
880-49951-19	HA-18	118	94				
880-49951-20	HA-18	115	95				
880-49951-21	HA-18	89	102				
880-49951-21 MS	HA-18	92	111				
880-49951-21 MSD	HA-18	93	112				
LCS 880-93686/1-A	Lab Control Sample	91	110				
LCS 880-93688/1-A	Lab Control Sample	109	101				
LCSD 880-93686/2-A	Lab Control Sample Dup	91	112				
LCSD 880-93688/2-A	Lab Control Sample Dup	102	101				
MB 880-93686/5-A	Method Blank	85	97				
MB 880-93688/5-A	Method Blank	109	89				
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)				
880-49951-1	HA-6	142 S1+	125				
880-49951-1 MS	HA-6	115	112				
880-49951-1 MSD	HA-6	120	117				
880-49951-2	HA-7	139 S1+	126				
880-49951-3	HA-8	130	118				
880-49951-4	HA-9	127	114				
880-49951-5	HA-10	125	112				
880-49951-6	HA-10	144 S1+	128				

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

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)
880-49951-7	HA-11	152 S1+	135 S1+
880-49951-8	HA-14	179 S1+	163 S1+
880-49951-9	HA-14	133 S1+	122
880-49951-10	HA-14	136 S1+	122
880-49951-11	HA-15	128	114
880-49951-12	HA-15	131 S1+	115
880-49951-13	HA-15	120	107
880-49951-14	HA-16	130	118
880-49951-15	HA-16	133 S1+	117
880-49951-16	HA-17	95	87
880-49951-17	HA-17	125	111
880-49951-18	HA-17	135 S1+	121
880-49951-19	HA-18	132 S1+	120
880-49951-20	HA-18	141 S1+	125
880-49951-21	HA-18	124	111
880-49951-21 MS	HA-18	119	116
880-49951-21 MSD	HA-18	116	113
LCS 880-93619/2-A	Lab Control Sample	155 S1+	157 S1+
LCS 880-93653/2-A	Lab Control Sample	89	137 S1+
LCSD 880-93619/3-A	Lab Control Sample Dup	155 S1+	157 S1+
LCSD 880-93653/3-A	Lab Control Sample Dup	120	184 S1+
MB 880-93619/1-A	Method Blank	142 S1+	135 S1+
MB 880-93653/1-A	Method Blank	110	102

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-965854 -A

Matrix: Solid

Analysis Batch: 96F/ 9

Client Sample ID: Method Blank

Prep Type: Total4NA

Prep Batch: 96585

Analyte	MB Result	MB Qualifier	RL	MDL	f nit	D	Prepared	Analyzed	Dil fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:51	10/21/24 12:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:51	10/21/24 12:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:51	10/21/24 12:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/18/24 16:51	10/21/24 12:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:51	10/21/24 12:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/18/24 16:51	10/21/24 12:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	15		6+ - 70+	7+3 13 4 78257	7+3 73 4 7/ 204	7
7,4-Difluorobenzene (Surr)	: 6		6+ - 70+	7+3 13 4 78257	7+3 73 4 7/ 204	7

Lab Sample ID: LCS 880-965854 -A

Matrix: Solid

Analysis Batch: 96F/ 9

Client Sample ID: Lab Control Sample

Prep Type: Total4NA

Prep Batch: 96585

Analyte	Spike Added	LCS Result	LCS Qualifier	f nit	D	H Rec	H Rec Limits
Benzene	0.100	0.09534		mg/Kg		95	70 - 130
Toluene	0.100	0.08565		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08941		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1702		mg/Kg		85	70 - 130
o-Xylene	0.100	0.08324		mg/Kg		83	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	: 7		6+ - 70+
7,4-Difluorobenzene (Surr)	77+		6+ - 70+

Lab Sample ID: LCSD 880-965854 -A

Matrix: Solid

Analysis Batch: 96F/ 9

Client Sample ID: Lab Control Sample Dup

Prep Type: Total4NA

Prep Batch: 96585

Analyte	Spike Added	LCSD Result	LCSD Qualifier	f nit	D	H Rec	H Rec Limits	RPD	Limit
Benzene	0.100	0.1048		mg/Kg		105	70 - 130	9	35
Toluene	0.100	0.09414		mg/Kg		94	70 - 130	9	35
Ethylbenzene	0.100	0.09753		mg/Kg		98	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1871		mg/Kg		94	70 - 130	9	35
o-Xylene	0.100	0.09086		mg/Kg		91	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	: 7		6+ - 70+
7,4-Difluorobenzene (Surr)	77/		6+ - 70+

Lab Sample ID: 880-799/ 1-21 MS

Matrix: Solid

Analysis Batch: 96F/ 9

Client Sample ID: 3 A-18

Prep Type: Total4NA

Prep Batch: 96585

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	f nit	D	H Rec	H Rec Limits
Benzene	<0.00200	U	0.100	0.09256		mg/Kg		93	70 - 130
Toluene	<0.00200	U	0.100	0.08306		mg/Kg		83	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

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

Lab Sample ID: 880-799/ 1-21 MS

Matrix: Solid

Analysis Batch: 96F/ 9

Client Sample ID: 3 A-18

Prep Type: TotalNA

Prep Batch: 96585

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	f nit	D	H Rec	H Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08648		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1654		mg/Kg		83	70 - 130
o-Xylene	<0.00200	U	0.100	0.08031		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	: /		6+ - 70+
7,4-Difluorobenzene (Surr)	777		6+ - 70+

Lab Sample ID: 880-799/ 1-21 MSD

Matrix: Solid

Analysis Batch: 96F/ 9

Client Sample ID: 3 A-18

Prep Type: TotalNA

Prep Batch: 96585

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	f nit	D	H Rec	H Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.09171		mg/Kg		92	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.08172		mg/Kg		82	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.08440		mg/Kg		84	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1608		mg/Kg		80	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.07854		mg/Kg		79	70 - 130	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	: 0		6+ - 70+
7,4-Difluorobenzene (Surr)	77/		6+ - 70+

Lab Sample ID: MB 880-965884 -A

Matrix: Solid

Analysis Batch: 96F51

Client Sample ID: Method Blank

Prep Type: TotalNA

Prep Batch: 96588

Analyte	MB Result	MB Qualifier	RL	MDL	f nit	D	Prepared	Analyzed	Dil fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 11:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 11:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 11:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/18/24 16:53	10/21/24 11:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/24 16:53	10/21/24 11:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/18/24 16:53	10/21/24 11:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	7+:		6+ - 70+	7+3 13 4 78250	7+3 73 4 77254	7
7,4-Difluorobenzene (Surr)	1:		6+ - 70+	7+3 13 4 78250	7+3 73 4 77254	7

Lab Sample ID: LCS 880-965884 -A

Matrix: Solid

Analysis Batch: 96F51

Client Sample ID: Lab Control Sample

Prep Type: TotalNA

Prep Batch: 96588

Analyte	Spike Added	LCS Result	LCS Qualifier	f nit	D	H Rec	H Rec Limits
Benzene	0.100	0.1161		mg/Kg		116	70 - 130
Toluene	0.100	0.1176		mg/Kg		118	70 - 130
Ethylbenzene	0.100	0.1153		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	0.200	0.2298		mg/Kg		115	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

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

Lab Sample ID: LCS 880-965884-A

Matrix: Solid

Analysis Batch: 96F51

Client Sample ID: Lab Control Sample

Prep Type: Total4NA

Prep Batch: 96588

Analyte	Spike Added	LCS Result	LCS Qualifier	f nit	D	H Rec	H Rec Limits
o-Xylene	0.100	0.1152		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	7+		6+ - 70+
7,4-Difluorobenzene (Surr)	7+7		6+ - 70+

Lab Sample ID: LCSD 880-965884-A

Matrix: Solid

Analysis Batch: 96F51

Client Sample ID: Lab Control Sample Dup

Prep Type: Total4NA

Prep Batch: 96588

Analyte	Spike Added	LCSD Result	LCSD Qualifier	f nit	D	H Rec	H Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1122		mg/Kg		112	70 - 130	3	35
Toluene	0.100	0.1148		mg/Kg		115	70 - 130	2	35
Ethylbenzene	0.100	0.1119		mg/Kg		112	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2206		mg/Kg		110	70 - 130	4	35
o-Xylene	0.100	0.1107		mg/Kg		111	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	7+/-		6+ - 70+
7,4-Difluorobenzene (Surr)	7+7		6+ - 70+

Lab Sample ID: 880-799/ 1-1 MS

Matrix: Solid

Analysis Batch: 96F51

Client Sample ID: 3 A-5

Prep Type: Total4NA

Prep Batch: 96588

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	f nit	D	H Rec	H Rec Limits
Benzene	<0.00201	U	0.100	0.1109		mg/Kg		111	70 - 130
Toluene	<0.00201	U	0.100	0.1123		mg/Kg		112	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.1087		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2129		mg/Kg		106	70 - 130
o-Xylene	<0.00201	U	0.100	0.1071		mg/Kg		107	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	7+1		6+ - 70+
7,4-Difluorobenzene (Surr)	: 8		6+ - 70+

Lab Sample ID: 880-799/ 1-1 MSD

Matrix: Solid

Analysis Batch: 96F51

Client Sample ID: 3 A-5

Prep Type: Total4NA

Prep Batch: 96588

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	f nit	D	H Rec	H Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.1061		mg/Kg		106	70 - 130	4	35
Toluene	<0.00201	U	0.100	0.1075		mg/Kg		108	70 - 130	4	35
Ethylbenzene	<0.00201	U	0.100	0.1039		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2037		mg/Kg		102	70 - 130	4	35
o-Xylene	<0.00201	U	0.100	0.1025		mg/Kg		103	70 - 130	4	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

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

Lab Sample ID: 880-799/ 1-1 MSD				Client Sample ID: 3 A-5			
Matrix: Solid				Prep Type: TotalA			
Analysis Batch: 96F51				Prep Batch: 96588			
	MSD	MSD					
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	7+5		6+ - 70+				
7,4-Difluorobenzene (Surr)	: 6		6+ - 70+				

Method: 801/ B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-965194-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: TotalA		
Analysis Batch: 96559							Prep Batch: 96519		
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	f nit	D	Prepared	AnalyUed	Dil zac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/17/24 17:30	10/18/24 00:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/17/24 17:30	10/18/24 00:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/24 17:30	10/18/24 00:20	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
7-Chlorooctane	74/	S79	6+ - 70+				7+363 4 762+	7+313 4 ++2 +	7
o-Terphenyl	705	S79	6+ - 70+				7+363 4 762+	7+313 4 ++2 +	7

Lab Sample ID: LCS 880-965194-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: TotalA			
Analysis Batch: 96559						Prep Batch: 96519			
Analyte	Spike		LCS	LCS	f nit	D	H Rec	H Rec	Limits
	Added		Result	Qualifier					
Gasoline Range Organics (GRO)-C6-C10	1000		1383	*+	mg/Kg		138	70 - 130	
Diesel Range Organics (Over C10-C28)	1000		1396	*+	mg/Kg		140	70 - 130	
Surrogate	LCS	LCS	Limits						
	%Recovery	Qualifier							
7-Chlorooctane	755	S79	6+ - 70+						
o-Terphenyl	756	S79	6+ - 70+						

Lab Sample ID: LCSD 880-965194-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Solid						Prep Type: TotalA					
Analysis Batch: 96559						Prep Batch: 96519					
Analyte			Spike	LCSD	LCSD	f nit	D	H Rec	H Rec	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1385	*+	mg/Kg		139	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	1380	*+	mg/Kg		138	70 - 130	1	20

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Method: 801/ B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-799/ 1-1 MS
Matrix: Solid
Analysis Batch: 96559

Client Sample ID: 3 A-5
Prep Type: Total4NA
Prep Batch: 96519

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	f nit	D	H Rec	H Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	997	919.0		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U *	997	948.8		mg/Kg		95	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
7-Chlorooctane	775		6+ - 70+						
o-Terphenyl	77/		6+ - 70+						

Lab Sample ID: 880-799/ 1-1 MSD
Matrix: Solid
Analysis Batch: 96559

Client Sample ID: 3 A-5
Prep Type: Total4NA
Prep Batch: 96519

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	f nit	D	H Rec	H Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	997	972.0		mg/Kg		97	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<50.0	U *	997	987.2		mg/Kg		99	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
7-Chlorooctane	7/ +		6+ - 70+								
o-Terphenyl	776		6+ - 70+								

Lab Sample ID: MB 880-965/ 64-A
Matrix: Solid
Analysis Batch: 96F01

Client Sample ID: Method Blank
Prep Type: Total4NA
Prep Batch: 965/ 6

Analyte	MB Result	MB Qualifier	RL	MDL	f nit	D	Prepared	Analyzed	Dil fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		10/18/24 09:50	10/19/24 08:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/18/24 09:50	10/19/24 08:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/18/24 09:50	10/19/24 08:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
7-Chlorooctane	77+		6+ - 70+				7+3713 4 +: 25+	7+37: 3 4 +1245	7
o-Terphenyl	7+/		6+ - 70+				7+3713 4 +: 25+	7+37: 3 4 +1245	7

Lab Sample ID: LCS 880-965/ 64-A
Matrix: Solid
Analysis Batch: 96F01

Client Sample ID: Lab Control Sample
Prep Type: Total4NA
Prep Batch: 965/ 6

Analyte	Spike Added	LCS Result	LCS Qualifier	f nit	D	H Rec	H Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	814.5		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1052		mg/Kg		105	70 - 130

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Method: 801/ B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-965/ 64-A
Matrix: Solid
Analysis Batch: 96F01

Client Sample ID: Lab Control Sample
Prep Type: Total4NA
Prep Batch: 965/ 6

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
7-Chlorooctane	1:		6+ - 70+
o-Terphenyl	706	S79	6+ - 70+

Lab Sample ID: LCSD 880-965/ 64-A
Matrix: Solid
Analysis Batch: 96F01

Client Sample ID: Lab Control Sample Dup
Prep Type: Total4NA
Prep Batch: 965/ 6

Analyte	Spike Added	LCSD Result	LCSD Qualifier	f nit	D	H Rec	H Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1083	*1	mg/Kg		108	70 - 130	28	20
Diesel Range Organics (Over C10-C28)	1000	1410	*+ *1	mg/Kg		141	70 - 130	29	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
7-Chlorooctane	7/ +		6+ - 70+
o-Terphenyl	714	S79	6+ - 70+

Lab Sample ID: 880-799/ 1-21 MS
Matrix: Solid
Analysis Batch: 96F01

Client Sample ID: 3 A-18
Prep Type: Total4NA
Prep Batch: 965/ 6

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	f nit	D	H Rec	H Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	998	902.1		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U *+ *1	998	940.5		mg/Kg		94	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
7-Chlorooctane	77:		6+ - 70+
o-Terphenyl	778		6+ - 70+

Lab Sample ID: 880-799/ 1-21 MSD
Matrix: Solid
Analysis Batch: 96F01

Client Sample ID: 3 A-18
Prep Type: Total4NA
Prep Batch: 965/ 6

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	f nit	D	H Rec	H Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	998	903.4		mg/Kg		91	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U *+ *1	998	938.3		mg/Kg		94	70 - 130	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
7-Chlorooctane	778		6+ - 70+
o-Terphenyl	770		6+ - 70+

Eurofins Midland

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Method: 600.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-965184-A

Matrix: Solid

Analysis Batch: 96F10

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	f nit	D	Prepared	AnalyUed	Dil zac
Chloride	<10.0	U	10.0		mg/Kg			10/20/24 09:58	1

Lab Sample ID: LCS 880-965184-A

Matrix: Solid

Analysis Batch: 96F10

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	f nit	D	H Rec	H Rec Limits
Chloride	250	230.4		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-965184-A

Matrix: Solid

Analysis Batch: 96F10

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	f nit	D	H Rec	H Rec Limits	RPD	RPD Limit
Chloride	250	232.3		mg/Kg		93	90 - 110	1	20

Lab Sample ID: 880-799/ 1-1 MS

Matrix: Solid

Analysis Batch: 96F10

Client Sample ID: 3 A-5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	f nit	D	H Rec	H Rec Limits
Chloride	12.4		251	251.9		mg/Kg		96	90 - 110

Lab Sample ID: 880-799/ 1-1 MSD

Matrix: Solid

Analysis Batch: 96F10

Client Sample ID: 3 A-5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	f nit	D	H Rec	H Rec Limits	RPD	RPD Limit
Chloride	12.4		251	246.5		mg/Kg		93	90 - 110	2	20

Lab Sample ID: 880-799/ 1-11 MS

Matrix: Solid

Analysis Batch: 96F10

Client Sample ID: 3 A-1/

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	f nit	D	H Rec	H Rec Limits
Chloride	50.2	F1	251	274.2	F1	mg/Kg		89	90 - 110

Lab Sample ID: 880-799/ 1-11 MSD

Matrix: Solid

Analysis Batch: 96F10

Client Sample ID: 3 A-1/

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	f nit	D	H Rec	H Rec Limits	RPD	RPD Limit
Chloride	50.2	F1	251	274.1	F1	mg/Kg		89	90 - 110	0	20

Lab Sample ID: MB 880-96F784-A

Matrix: Solid

Analysis Batch: 96F5/

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	f nit	D	Prepared	AnalyUed	Dil zac
Chloride	<10.0	U	10.0		mg/Kg			10/21/24 15:43	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Method: 600.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-96F784-A				Client Sample ID: Lab Control Sample						
Matrix: Solid				Prep Type: Soluble						
Analysis Batch: 96F5/										
Analyte	Spike Added	LCS Result	LCS Qualifier	f nit	D	H Rec	H Rec Limits			
Chloride	250	231.3		mg/Kg		93	90 - 110			

Lab Sample ID: LCSD 880-96F784-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Solid				Prep Type: Soluble						
Analysis Batch: 96F5/										
Analyte	Spike Added	LCSD Result	LCSD Qualifier	f nit	D	H Rec	H Rec Limits	RPD	RPD Limit	
Chloride	250	238.7		mg/Kg		95	90 - 110	3	20	

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

GC VOA

I rBh : atc9265LbL

pae SamhIB DP	CIIBnt SamhIB DP	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-21	HA-18	Total/NA	Solid	5035	
MB 880-93686/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-93686/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-93686/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-49951-21 MS	HA-18	Total/NA	Solid	5035	
880-49951-21 MSD	HA-18	Total/NA	Solid	5035	

I rBh : atc9265Lbb

pae SamhIB DP	CIIBnt SamhIB DP	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-1	HA-6	Total/NA	Solid	5035	
880-49951-2	HA-7	Total/NA	Solid	5035	
880-49951-3	HA-8	Total/NA	Solid	5035	
880-49951-4	HA-9	Total/NA	Solid	5035	
880-49951-5	HA-10	Total/NA	Solid	5035	
880-49951-6	HA-10	Total/NA	Solid	5035	
880-49951-7	HA-11	Total/NA	Solid	5035	
880-49951-8	HA-14	Total/NA	Solid	5035	
880-49951-9	HA-14	Total/NA	Solid	5035	
880-49951-10	HA-14	Total/NA	Solid	5035	
880-49951-11	HA-15	Total/NA	Solid	5035	
880-49951-12	HA-15	Total/NA	Solid	5035	
880-49951-13	HA-15	Total/NA	Solid	5035	
880-49951-14	HA-16	Total/NA	Solid	5035	
880-49951-15	HA-16	Total/NA	Solid	5035	
880-49951-16	HA-17	Total/NA	Solid	5035	
880-49951-17	HA-17	Total/NA	Solid	5035	
880-49951-18	HA-17	Total/NA	Solid	5035	
880-49951-19	HA-18	Total/NA	Solid	5035	
880-49951-20	HA-18	Total/NA	Solid	5035	
MB 880-93688/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-93688/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-93688/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-49951-1 MS	HA-6	Total/NA	Solid	5035	
880-49951-1 MSD	HA-6	Total/NA	Solid	5035	

Analysis : atc92654(6

pae SamhIB DP	CIIBnt SamhIB DP	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-21	HA-18	Total/NA	Solid	8021B	93686
MB 880-93686/5-A	Method Blank	Total/NA	Solid	8021B	93686
LCS 880-93686/1-A	Lab Control Sample	Total/NA	Solid	8021B	93686
LCSD 880-93686/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	93686
880-49951-21 MS	HA-18	Total/NA	Solid	8021B	93686
880-49951-21 MSD	HA-18	Total/NA	Solid	8021B	93686

Analysis : atc92654L)

pae SamhIB DP	CIIBnt SamhIB DP	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-1	HA-6	Total/NA	Solid	8021B	93688
880-49951-2	HA-7	Total/NA	Solid	8021B	93688
880-49951-3	HA-8	Total/NA	Solid	8021B	93688
880-49951-4	HA-9	Total/NA	Solid	8021B	93688
880-49951-5	HA-10	Total/NA	Solid	8021B	93688

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

GC VOA 7ContinuBd0

Analysis : atc92654L) 7ContinuBd0

pae SamhIB DP	Client SamhIB DP	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-6	HA-10	Total/NA	Solid	8021B	93688
880-49951-7	HA-11	Total/NA	Solid	8021B	93688
880-49951-8	HA-14	Total/NA	Solid	8021B	93688
880-49951-9	HA-14	Total/NA	Solid	8021B	93688
880-49951-10	HA-14	Total/NA	Solid	8021B	93688
880-49951-11	HA-15	Total/NA	Solid	8021B	93688
880-49951-12	HA-15	Total/NA	Solid	8021B	93688
880-49951-13	HA-15	Total/NA	Solid	8021B	93688
880-49951-14	HA-16	Total/NA	Solid	8021B	93688
880-49951-15	HA-16	Total/NA	Solid	8021B	93688
880-49951-16	HA-17	Total/NA	Solid	8021B	93688
880-49951-17	HA-17	Total/NA	Solid	8021B	93688
880-49951-18	HA-17	Total/NA	Solid	8021B	93688
880-49951-19	HA-18	Total/NA	Solid	8021B	93688
880-49951-20	HA-18	Total/NA	Solid	8021B	93688
MB 880-93688/5-A	Method Blank	Total/NA	Solid	8021B	93688
LCS 880-93688/1-A	Lab Control Sample	Total/NA	Solid	8021B	93688
LCSD 880-93688/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	93688
880-49951-1 MS	HA-6	Total/NA	Solid	8021B	93688
880-49951-1 MSD	HA-6	Total/NA	Solid	8021B	93688

Analysis : atc9265b8b

pae SamhIB DP	Client SamhIB DP	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-1	HA-6	Total/NA	Solid	Total BTEX	
880-49951-2	HA-7	Total/NA	Solid	Total BTEX	
880-49951-3	HA-8	Total/NA	Solid	Total BTEX	
880-49951-4	HA-9	Total/NA	Solid	Total BTEX	
880-49951-5	HA-10	Total/NA	Solid	Total BTEX	
880-49951-6	HA-10	Total/NA	Solid	Total BTEX	
880-49951-7	HA-11	Total/NA	Solid	Total BTEX	
880-49951-8	HA-14	Total/NA	Solid	Total BTEX	
880-49951-9	HA-14	Total/NA	Solid	Total BTEX	
880-49951-10	HA-14	Total/NA	Solid	Total BTEX	
880-49951-11	HA-15	Total/NA	Solid	Total BTEX	
880-49951-12	HA-15	Total/NA	Solid	Total BTEX	
880-49951-13	HA-15	Total/NA	Solid	Total BTEX	
880-49951-14	HA-16	Total/NA	Solid	Total BTEX	
880-49951-15	HA-16	Total/NA	Solid	Total BTEX	
880-49951-16	HA-17	Total/NA	Solid	Total BTEX	
880-49951-17	HA-17	Total/NA	Solid	Total BTEX	
880-49951-18	HA-17	Total/NA	Solid	Total BTEX	
880-49951-19	HA-18	Total/NA	Solid	Total BTEX	
880-49951-20	HA-18	Total/NA	Solid	Total BTEX	
880-49951-21	HA-18	Total/NA	Solid	Total BTEX	

GC SBmi VOA

I rBh : atc9265L) 6

pae SamhIB DP	Client SamhIB DP	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-1	HA-6	Total/NA	Solid	8015NM Prep	
880-49951-2	HA-7	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

GC SBmi VOA TContinuBd0

I rBh : atc9265L) 6 TContinuBd0

pae SamhIB DP	CIIBnt SamhIB DP	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-3	HA-8	Total/NA	Solid	8015NM Prep	
880-49951-4	HA-9	Total/NA	Solid	8015NM Prep	
880-49951-5	HA-10	Total/NA	Solid	8015NM Prep	
880-49951-6	HA-10	Total/NA	Solid	8015NM Prep	
880-49951-7	HA-11	Total/NA	Solid	8015NM Prep	
880-49951-8	HA-14	Total/NA	Solid	8015NM Prep	
880-49951-9	HA-14	Total/NA	Solid	8015NM Prep	
880-49951-10	HA-14	Total/NA	Solid	8015NM Prep	
880-49951-11	HA-15	Total/NA	Solid	8015NM Prep	
880-49951-12	HA-15	Total/NA	Solid	8015NM Prep	
880-49951-13	HA-15	Total/NA	Solid	8015NM Prep	
880-49951-14	HA-16	Total/NA	Solid	8015NM Prep	
880-49951-15	HA-16	Total/NA	Solid	8015NM Prep	
880-49951-16	HA-17	Total/NA	Solid	8015NM Prep	
880-49951-17	HA-17	Total/NA	Solid	8015NM Prep	
880-49951-18	HA-17	Total/NA	Solid	8015NM Prep	
880-49951-19	HA-18	Total/NA	Solid	8015NM Prep	
880-49951-20	HA-18	Total/NA	Solid	8015NM Prep	
MB 880-93619/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-93619/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-93619/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49951-1 MS	HA-6	Total/NA	Solid	8015NM Prep	
880-49951-1 MSD	HA-6	Total/NA	Solid	8015NM Prep	

I rBh : atc9265L) 5

pae SamhIB DP	CIIBnt SamhIB DP	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-21	HA-18	Total/NA	Solid	8015NM Prep	
MB 880-93653/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-93653/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-93653/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49951-21 MS	HA-18	Total/NA	Solid	8015NM Prep	
880-49951-21 MSD	HA-18	Total/NA	Solid	8015NM Prep	

Analysis : atc9265LL6

pae SamhIB DP	CIIBnt SamhIB DP	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-1	HA-6	Total/NA	Solid	8015B NM	93619
880-49951-2	HA-7	Total/NA	Solid	8015B NM	93619
880-49951-3	HA-8	Total/NA	Solid	8015B NM	93619
880-49951-4	HA-9	Total/NA	Solid	8015B NM	93619
880-49951-5	HA-10	Total/NA	Solid	8015B NM	93619
880-49951-6	HA-10	Total/NA	Solid	8015B NM	93619
880-49951-7	HA-11	Total/NA	Solid	8015B NM	93619
880-49951-8	HA-14	Total/NA	Solid	8015B NM	93619
880-49951-9	HA-14	Total/NA	Solid	8015B NM	93619
880-49951-10	HA-14	Total/NA	Solid	8015B NM	93619
880-49951-11	HA-15	Total/NA	Solid	8015B NM	93619
880-49951-12	HA-15	Total/NA	Solid	8015B NM	93619
880-49951-13	HA-15	Total/NA	Solid	8015B NM	93619
880-49951-14	HA-16	Total/NA	Solid	8015B NM	93619
880-49951-15	HA-16	Total/NA	Solid	8015B NM	93619
880-49951-16	HA-17	Total/NA	Solid	8015B NM	93619

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

GC SBmi VOA 7ContinuBd0

Analysis : atc9265LL6 7ContinuBd0

pae SamhIB DP	Client SamhIB DP	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-17	HA-17	Total/NA	Solid	8015B NM	93619
880-49951-18	HA-17	Total/NA	Solid	8015B NM	93619
880-49951-19	HA-18	Total/NA	Solid	8015B NM	93619
880-49951-20	HA-18	Total/NA	Solid	8015B NM	93619
MB 880-93619/1-A	Method Blank	Total/NA	Solid	8015B NM	93619
LCS 880-93619/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	93619
LCSD 880-93619/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	93619
880-49951-1 MS	HA-6	Total/NA	Solid	8015B NM	93619
880-49951-1 MSD	HA-6	Total/NA	Solid	8015B NM	93619

Analysis : atc926543)

pae SamhIB DP	Client SamhIB DP	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-21	HA-18	Total/NA	Solid	8015B NM	93653
MB 880-93653/1-A	Method Blank	Total/NA	Solid	8015B NM	93653
LCS 880-93653/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	93653
LCSD 880-93653/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	93653
880-49951-21 MS	HA-18	Total/NA	Solid	8015B NM	93653
880-49951-21 MSD	HA-18	Total/NA	Solid	8015B NM	93653

Analysis : atc926544b

pae SamhIB DP	Client SamhIB DP	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-1	HA-6	Total/NA	Solid	8015 NM	
880-49951-2	HA-7	Total/NA	Solid	8015 NM	
880-49951-3	HA-8	Total/NA	Solid	8015 NM	
880-49951-4	HA-9	Total/NA	Solid	8015 NM	
880-49951-5	HA-10	Total/NA	Solid	8015 NM	
880-49951-6	HA-10	Total/NA	Solid	8015 NM	
880-49951-7	HA-11	Total/NA	Solid	8015 NM	
880-49951-8	HA-14	Total/NA	Solid	8015 NM	
880-49951-9	HA-14	Total/NA	Solid	8015 NM	
880-49951-10	HA-14	Total/NA	Solid	8015 NM	
880-49951-11	HA-15	Total/NA	Solid	8015 NM	
880-49951-12	HA-15	Total/NA	Solid	8015 NM	
880-49951-13	HA-15	Total/NA	Solid	8015 NM	
880-49951-14	HA-16	Total/NA	Solid	8015 NM	
880-49951-15	HA-16	Total/NA	Solid	8015 NM	
880-49951-16	HA-17	Total/NA	Solid	8015 NM	
880-49951-17	HA-17	Total/NA	Solid	8015 NM	
880-49951-18	HA-17	Total/NA	Solid	8015 NM	
880-49951-19	HA-18	Total/NA	Solid	8015 NM	
880-49951-20	HA-18	Total/NA	Solid	8015 NM	
880-49951-21	HA-18	Total/NA	Solid	8015 NM	

HI pC/DC

pBac9 : atc9265L) b

pae SamhIB DP	Client SamhIB DP	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-1	HA-6	Soluble	Solid	DI Leach	
880-49951-2	HA-7	Soluble	Solid	DI Leach	
880-49951-3	HA-8	Soluble	Solid	DI Leach	
880-49951-4	HA-9	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

HI pC/DC Continuum

pBac9 : atc9265L) b Continuum

pae SamHIB	Client SamHIB	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-5	HA-10	Soluble	Solid	DI Leach	
880-49951-6	HA-10	Soluble	Solid	DI Leach	
880-49951-7	HA-11	Soluble	Solid	DI Leach	
880-49951-8	HA-14	Soluble	Solid	DI Leach	
880-49951-9	HA-14	Soluble	Solid	DI Leach	
880-49951-10	HA-14	Soluble	Solid	DI Leach	
880-49951-11	HA-15	Soluble	Solid	DI Leach	
880-49951-12	HA-15	Soluble	Solid	DI Leach	
880-49951-13	HA-15	Soluble	Solid	DI Leach	
880-49951-14	HA-16	Soluble	Solid	DI Leach	
880-49951-15	HA-16	Soluble	Solid	DI Leach	
880-49951-16	HA-17	Soluble	Solid	DI Leach	
880-49951-17	HA-17	Soluble	Solid	DI Leach	
880-49951-18	HA-17	Soluble	Solid	DI Leach	
880-49951-19	HA-18	Soluble	Solid	DI Leach	
880-49951-20	HA-18	Soluble	Solid	DI Leach	
MB 880-93618/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-93618/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-93618/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49951-1 MS	HA-6	Soluble	Solid	DI Leach	
880-49951-1 MSD	HA-6	Soluble	Solid	DI Leach	
880-49951-11 MS	HA-15	Soluble	Solid	DI Leach	
880-49951-11 MSD	HA-15	Soluble	Solid	DI Leach	

Analysis : atc92654) 3

pae SamHIB	Client SamHIB	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-1	HA-6	Soluble	Solid	300.0	93618
880-49951-2	HA-7	Soluble	Solid	300.0	93618
880-49951-3	HA-8	Soluble	Solid	300.0	93618
880-49951-4	HA-9	Soluble	Solid	300.0	93618
880-49951-5	HA-10	Soluble	Solid	300.0	93618
880-49951-6	HA-10	Soluble	Solid	300.0	93618
880-49951-7	HA-11	Soluble	Solid	300.0	93618
880-49951-8	HA-14	Soluble	Solid	300.0	93618
880-49951-9	HA-14	Soluble	Solid	300.0	93618
880-49951-10	HA-14	Soluble	Solid	300.0	93618
880-49951-11	HA-15	Soluble	Solid	300.0	93618
880-49951-12	HA-15	Soluble	Solid	300.0	93618
880-49951-13	HA-15	Soluble	Solid	300.0	93618
880-49951-14	HA-16	Soluble	Solid	300.0	93618
880-49951-15	HA-16	Soluble	Solid	300.0	93618
880-49951-16	HA-17	Soluble	Solid	300.0	93618
880-49951-17	HA-17	Soluble	Solid	300.0	93618
880-49951-18	HA-17	Soluble	Solid	300.0	93618
880-49951-19	HA-18	Soluble	Solid	300.0	93618
880-49951-20	HA-18	Soluble	Solid	300.0	93618
MB 880-93618/1-A	Method Blank	Soluble	Solid	300.0	93618
LCS 880-93618/2-A	Lab Control Sample	Soluble	Solid	300.0	93618
LCSD 880-93618/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	93618
880-49951-1 MS	HA-6	Soluble	Solid	300.0	93618
880-49951-1 MSD	HA-6	Soluble	Solid	300.0	93618

Eurofins Midland

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

HI pC/DC Continuum0

Analysis : atc92654) 3 Continuum0

pae SamhIB DP	Client SamhIB DP	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-11 MS	HA-15	Soluble	Solid	300.0	93618
880-49951-11 MSD	HA-15	Soluble	Solid	300.0	93618

pBac9 : atc926541b

pae SamhIB DP	Client SamhIB DP	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-21	HA-18	Soluble	Solid	DI Leach	
MB 880-93748/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-93748/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-93748/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis : atc92654L(

pae SamhIB DP	Client SamhIB DP	I rBh TyhB	Matrix	MB9od	I rBh : atc9
880-49951-21	HA-18	Soluble	Solid	300.0	93748
MB 880-93748/1-A	Method Blank	Soluble	Solid	300.0	93748
LCS 880-93748/2-A	Lab Control Sample	Soluble	Solid	300.0	93748
LCSD 880-93748/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	93748

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-1

Date Collected: 20/2R/v4 08:00

Date Teceiyed: 20/2R/v4 23:43

Lab Sample ID: 880-49932-2

Matrix: Solid

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			4.98 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 12:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 12:15	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 14:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 14:25	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 10:15	CH	EET MID

Client Sample ID: HA-R

Date Collected: 20/2R/v4 0R:30

Date Teceiyed: 20/2R/v4 23:43

Lab Sample ID: 880-49932-v

Matrix: Solid

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			5.02 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 12:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 12:36	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 15:13	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 10:31	CH	EET MID

Client Sample ID: HA-8

Date Collected: 20/2R/v4 08:20

Date Teceiyed: 20/2R/v4 23:43

Lab Sample ID: 880-49932-6

Matrix: Solid

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 12:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 12:56	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 15:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 15:28	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 10:36	CH	EET MID

Client Sample ID: HA-9

Date Collected: 20/2R/v4 08:v0

Date Teceiyed: 20/2R/v4 23:43

Lab Sample ID: 880-49932-4

Matrix: Solid

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			4.97 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 13:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 13:17	MNR	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-9

Lab Sample ID: 880-49932-4

Date Collected: 20/2R/v4 08:v0

Matrix: Solid

Date Teceiyed: 20/2R/v4 23:43

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Analysis	8015 NM		1			93778	10/18/24 15:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 15:44	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 10:42	CH	EET MID

Client Sample ID: HA-20

Lab Sample ID: 880-49932-3

Date Collected: 20/2R/v4 08:v0

Matrix: Solid

Date Teceiyed: 20/2R/v4 23:43

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			4.99 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 13:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 13:37	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 16:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 16:02	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 10:47	CH	EET MID

Client Sample ID: HA-20

Lab Sample ID: 880-49932-1

Date Collected: 20/2R/v4 08:v3

Matrix: Solid

Date Teceiyed: 20/2R/v4 23:43

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			5.02 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 13:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 13:58	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 16:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 16:18	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 11:03	CH	EET MID

Client Sample ID: HA-22

Lab Sample ID: 880-49932-R

Date Collected: 20/2R/v4 08:23

Matrix: Solid

Date Teceiyed: 20/2R/v4 23:43

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			5.03 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 14:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 14:18	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 16:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 16:34	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-22**Lab Sample ID: 880-49932-R****Date Collected: 20/2R/v4 08:23****Matrix: Solid****Date Teceiyed: 20/2R/v4 23:43**

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 11:09	CH	EET MID

Client Sample ID: HA-24**Lab Sample ID: 880-49932-8****Date Collected: 20/2R/v4 08:60****Matrix: Solid****Date Teceiyed: 20/2R/v4 23:43**

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 14:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 14:38	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 16:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 16:51	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 11:14	CH	EET MID

Client Sample ID: HA-24**Lab Sample ID: 880-49932-9****Date Collected: 20/2R/v4 08:63****Matrix: Solid****Date Teceiyed: 20/2R/v4 23:43**

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			4.97 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 14:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 14:59	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 17:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 17:07	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 11:20	CH	EET MID

Client Sample ID: HA-24**Lab Sample ID: 880-49932-20****Date Collected: 20/2R/v4 08:40****Matrix: Solid****Date Teceiyed: 20/2R/v4 23:43**

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			4.99 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 15:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 15:19	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 17:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 17:23	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 11:25	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-23
Date Collected: 20/2R/v4 08:43
Date Teceiyed: 20/2R/v4 23:43

Lab Sample ID: 880-49932-22
Matrix: Solid

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			5.02 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 16:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 16:42	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 17:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 17:54	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 11:30	CH	EET MID

Client Sample ID: HA-23
Date Collected: 20/2R/v4 08:30
Date Teceiyed: 20/2R/v4 23:43

Lab Sample ID: 880-49932-2v
Matrix: Solid

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			5.03 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 17:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 17:03	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 18:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 18:12	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 12:03	CH	EET MID

Client Sample ID: HA-23
Date Collected: 20/2R/v4 08:33
Date Teceiyed: 20/2R/v4 23:43

Lab Sample ID: 880-49932-26
Matrix: Solid

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			5.01 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 17:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 17:23	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 18:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 18:28	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 12:08	CH	EET MID

Client Sample ID: HA-21
Date Collected: 20/2R/v4 09:00
Date Teceiyed: 20/2R/v4 23:43

Lab Sample ID: 880-49932-24
Matrix: Solid

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			4.97 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 17:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 17:44	MNR	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-21

Lab Sample ID: 880-49932-24

Date Collected: 20/2R/v4 09:00

Matrix: Solid

Date Teceiyed: 20/2R/v4 23:43

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Analysis	8015 NM		1			93778	10/18/24 18:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 18:43	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 12:24	CH	EET MID

Client Sample ID: HA-21

Lab Sample ID: 880-49932-23

Date Collected: 20/2R/v4 09:03

Matrix: Solid

Date Teceiyed: 20/2R/v4 23:43

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			4.99 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 18:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 18:04	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 19:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 19:00	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 12:30	CH	EET MID

Client Sample ID: HA-2R

Lab Sample ID: 880-49932-21

Date Collected: 20/2R/v4 09:20

Matrix: Solid

Date Teceiyed: 20/2R/v4 23:43

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			5.02 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 18:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 18:25	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 19:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 19:16	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 12:35	CH	EET MID

Client Sample ID: HA-2R

Lab Sample ID: 880-49932-2R

Date Collected: 20/2R/v4 09:23

Matrix: Solid

Date Teceiyed: 20/2R/v4 23:43

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			5.99 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 18:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 18:45	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 19:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 19:32	TKC	EET MID

Eurofins Midland

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-2R

Date Collected: 20/2R/v4 09:23

Date Teceiyed: 20/2R/v4 23:43

Lab Sample ID: 880-49932-2R

Matrix: Solid

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 12:40	CH	EET MID

Client Sample ID: HA-2R

Date Collected: 20/2R/v4 09:v0

Date Teceiyed: 20/2R/v4 23:43

Lab Sample ID: 880-49932-28

Matrix: Solid

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			5.51 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 19:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 19:06	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 19:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 19:48	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 12:46	CH	EET MID

Client Sample ID: HA-28

Date Collected: 20/2R/v4 09:v3

Date Teceiyed: 20/2R/v4 23:43

Lab Sample ID: 880-49932-29

Matrix: Solid

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			5.92 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 19:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 19:26	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 20:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 20:04	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 12:52	CH	EET MID

Client Sample ID: HA-28

Date Collected: 20/2R/v4 09:60

Date Teceiyed: 20/2R/v4 23:43

Lab Sample ID: 880-49932-v0

Matrix: Solid

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			4.99 g	5 mL	93688	10/18/24 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93761	10/21/24 19:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 19:46	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/18/24 20:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	93619	10/18/24 08:36	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93669	10/18/24 20:20	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	93618	10/18/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1			93710	10/20/24 12:57	CH	EET MID

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Talco State

Job ID: 880-49951-1
SDG: Lea County

Client Sample ID: HA-28

Date Collected: 20/2R/v4 09:63

Date Teceiyed: 20/2R/v4 23:43

Lab Sample ID: 880-49932-v2

Matrix: Solid

urep BPpe	s atch BPpe	s atch Method	TFn	Dil 5actor	Initial AmoFnt	5inal AmoFnt	s atch 7 Fmber	urepared or AnalPNed	AnalPzt	Lab
Total/NA	Prep	5035			4.99 g	5 mL	93686	10/18/24 16:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93759	10/21/24 12:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93828	10/21/24 12:56	MNR	EET MID
Total/NA	Analysis	8015 NM		1			93778	10/19/24 09:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	93653	10/18/24 09:50	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93701	10/19/24 09:33	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	93748	10/21/24 07:47	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93765	10/21/24 16:16	CH	EET MID

LaboratorP T eferencez:
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: Talco State

Job ID: 880-49951-1
SDG: Lea County

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: Talco State

Job ID: 880-49951-1
SDG: Lea County

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: Talco State

Job ID: 880-49951-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-49951-1	HA-6	Solid	10/17/24 08:00	10/17/24 15:45	2
880-49951-2	HA-7	Solid	10/17/24 07:50	10/17/24 15:45	2
880-49951-3	HA-8	Solid	10/17/24 08:10	10/17/24 15:45	2
880-49951-4	HA-9	Solid	10/17/24 08:20	10/17/24 15:45	2
880-49951-5	HA-10	Solid	10/17/24 08:20	10/17/24 15:45	1
880-49951-6	HA-10	Solid	10/17/24 08:25	10/17/24 15:45	2
880-49951-7	HA-11	Solid	10/17/24 08:15	10/17/24 15:45	1
880-49951-8	HA-14	Solid	10/17/24 08:30	10/17/24 15:45	0.5
880-49951-9	HA-14	Solid	10/17/24 08:35	10/17/24 15:45	1
880-49951-10	HA-14	Solid	10/17/24 08:40	10/17/24 15:45	2
880-49951-11	HA-15	Solid	10/17/24 08:45	10/17/24 15:45	0.5
880-49951-12	HA-15	Solid	10/17/24 08:50	10/17/24 15:45	1
880-49951-13	HA-15	Solid	10/17/24 08:55	10/17/24 15:45	2
880-49951-14	HA-16	Solid	10/17/24 09:00	10/17/24 15:45	0.5
880-49951-15	HA-16	Solid	10/17/24 09:05	10/17/24 15:45	1
880-49951-16	HA-17	Solid	10/17/24 09:10	10/17/24 15:45	0.5
880-49951-17	HA-17	Solid	10/17/24 09:15	10/17/24 15:45	1
880-49951-18	HA-17	Solid	10/17/24 09:20	10/17/24 15:45	2
880-49951-19	HA-18	Solid	10/17/24 09:25	10/17/24 15:45	0.5
880-49951-20	HA-18	Solid	10/17/24 09:30	10/17/24 15:45	1
880-49951-21	HA-18	Solid	10/17/24 09:35	10/17/24 15:45	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



Wo

880-49951 Chain of Custody

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Page

1 of 3

Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
Address:	5114 West County Road 128	Address:	
City, State ZIP:	Midland TX 79705	City, State ZIP:	
Phone:	432-894-6385	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:		Turn Around		ANALYSIS REQUEST												Preservative Codes					
Project Number:	2296	☒ Routine ☐ Rush		Pres. Code														None: NO	DI Water: H ₂ O		
Project Location:	Lea County	Due Date:		Parameters	Chloride NM	TPH NM	BTEX NM	HOLD										Cool: Cool	MeOH: Me		
Sampler's Name:	Joey Pinson	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:	IRX															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:	20.3		Zn Acetate+NaOH: Zn																
Total Containers:		Corrected Temperature:	20.2		NaOH+Ascorbic Acid: SAPC																
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Chloride NM	TPH NM	BTEX NM	HOLD								Sample Comments			
HA-6	S	10/17/2024	8:00	2	Grab	1	X	X	X												
HA-7	S	10/17/2024	7:50	2	Grab	1	X	X	X												
HA-8	S	10/17/2024	8:10	2	Grab	1	X	X	X												
HA-9	S	10/17/2024	8:20	2	Grab	1	X	X	X												
HA-10	S	10/17/2024	8:20	1	Grab	1	X	X	X												
HA-10	S	10/17/2024	8:25	2	Grab	1	X	X	X												
HA-11	S	10/17/2024	8:15	1	Grab	1	X	X	X												
HA-14	S	10/17/2024	8:30	0.5	Grab	1	X	X	X												
HA-14	S	10/17/2024	8:35	1	Grab	1	X	X	X												

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb 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
<i>[Signature]</i>	<i>[Signature]</i>	10/17/2024 15:45			

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 3

Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
Address:	5114 West County Road 128	Address:	
City, State ZIP:	Midland TX 79705	City, State ZIP:	
Phone:	432-894-6385	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:		Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	2296	☒ Routine ☐ Rush			Chloride NM	TPH NM	BTEX NM	Hold									None: NO	DI Water: H ₂ O		
Project Location:	Lea County	Due Date:		Parameters													Cool: Cool	MeOH: Me		
Sampler's Name:	Joey Pinson	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	Chloride NM	TPH NM	BTEX NM	Hold							Sample Comments			
HA-14	S	10/17/2024	8:40	2	Grab	1	X	X	X											
HA-15	S	10/17/2024	8:45	0.5	Grab	1	X	X	X											
HA-15	S	10/17/2024	8:50	1	Grab	1	X	X	X											
HA-15	S	10/17/2024	8:55	2	Grab	1	X	X	X											
HA-16	S	10/17/2024	9:00	0.5	Grab	1	X	X	X											
HA-16	S	10/17/2024	9:05	1	Grab	1	X	X	X											
HA-17	S	10/17/2024	9:10	0.5	Grab	1	X	X	X											
HA-17	S	10/17/2024	9:15	1	Grab	1	X	X	X											
HA-17	S	10/17/2024	9:20	2	Grab	1	X	X	X											

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas	11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	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		10/17/24 1545			
3					
5					



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 3 of 3

Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R&R
Company Name:	Earth Systems R&R	Company Name:	
Address:	5114 West County Road 128	Address:	
City, State ZIP:	Midland TX 79705	City, State ZIP:	
Phone:	432-894-6385	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 		10/17/04 15:25	2		
3			4		
5			6		

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 880-49951-1

SDG Number: Lea County

Login Number: 49951

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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.	False	No ice present
Cooler Temperature is acceptable.	False	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/7/2025 4:13:52 PM

JOB DESCRIPTION

Talco State Federal Com #222H
Lea County, NM

JOB NUMBER

890-7775-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

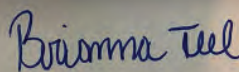
Eurofins Carlsbad

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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3/7/2025 4:13:52 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: Talco State Federal Com #222H

Laboratory Job ID: 890-7775-1
SDG: Lea County, NM

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Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
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.
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
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: Talco State Federal Com #222H

Job ID: 890-7775-1

Job ID: 890-7775-1

Eurofins Carlsbad

Job Narrative
890-7775-1

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 3/6/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -7.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS - 1 (890-7775-1), CS - 2 (890-7775-2), CS - 3 (890-7775-3), CS - 4 (890-7775-4), CS - 5 (890-7775-5), CS - 6 (890-7775-6), CS - 7 (890-7775-7), CS - 8 (890-7775-8), CS - 9 (890-7775-9), CS - 10 (890-7775-10), CS - 11 (890-7775-11), SW - 1 (890-7775-12), SW - 2 (890-7775-13), SW - 3 (890-7775-14) and SW - 4 (890-7775-15).

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: CS - 1 (890-7775-1) and CS - 2 (890-7775-2). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-104678 and analytical batch 880-104596 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: Surrogate recovery for the following sample was outside control limits: (890-7775-A-13-D MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW - 2 (890-7775-13). Evidence of matrix interferences is not obvious.

Sample to run for reanalysis

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW - 2 (890-7775-13). 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 for preparation batch 880-104671 and analytical batch 880-104699 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.

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: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

Client Sample ID: CS 42

Lab Sample ID: 80-49934c

Date CMLexter : - od 3d3 22:- -

1 atHA: SMir

Date Rexei/ er : - od vd3 - 0:- -

Sample Depth: 2

1 ethMr : S. 85v 8- c2W46Matile BH/anix CMmpMunr s Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/06/25 22:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/06/25 22:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/06/25 22:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 14:17	03/06/25 22:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/06/25 22:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 14:17	03/06/25 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156		+7 - 107	703/ 352 148+	703/ 352 558+	1
1:4-, Difluorobenzene (Surr)	61		+7 - 107	703/ 352 148+	703/ 352 558+	1

1 ethMr : f GL SBz f Mal Wf TE 4f Mal Wf TE CalxulatiMh

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/25 22:47	1

1 ethMr : S. 85v 8- 23 X1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total TPH	<49.8	U	49.8		mg/Kg			03/07/25 03:24	1

1 ethMr : S. 85v 8- 23WX1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 19:57	03/07/25 03:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 19:57	03/07/25 03:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 19:57	03/07/25 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-i Chlorohd ne	126	S1a	+7 - 107	703/ 352 168+	703/ 352 7054	1
o-9erTCenpl	127	S1a	+7 - 107	703/ 352 168+	703/ 352 7054	1

1 ethMr : TzG o- - N 4GniMns, IMh ChHMmatMhaph) 4SMuble

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
ChIMHr e	o- 9		9.92		mg/Kg			03/07/25 11:09	1

Client Sample ID: CS 4c

Lab Sample ID: 80-49934c

Date CMLexter : - od 3d3 22:- 3

1 atHA: SMir

Date Rexei/ er : - od vd3 - 0:- -

Sample Depth: 2

1 ethMr : S. 85v 8- c2W46Matile BH/anix CMmpMunr s Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/25 14:17	03/06/25 23:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/25 14:17	03/06/25 23:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/25 14:17	03/06/25 23:07	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/06/25 14:17	03/06/25 23:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/25 14:17	03/06/25 23:07	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/06/25 14:17	03/06/25 23:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		+7 - 107	703/ 352 148+	703/ 352 508+	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

Client Sample ID: CS 4c

Lab Sample ID: 80-49934c

Date CMIexter : - od 3d3 22:- 3

1 atHA: SMir

Date Rexei/ er : - od vdt3 - 0:- -

Sample Depth: 2

1 ethMr : S. 85v 8- c2W46Matile BH/anix CMmpMunr s Q C(CMntinuer (

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1:4-, fluorobenzene (Surr)	6/		+7 - 107	703/ 352 148+	703/ 352 508+	1

1 ethMr : f GL SBz f Mal Wf TE 4f Mal Wf TE CalculatiMh

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/06/25 23:07	1

1 ethMr : S. 85v 8- 23 X1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total TPH	<49.9	U	49.9		mg/Kg			03/07/25 03:39	1

1 ethMr : S. 85v 8- 23WX1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 19:57	03/07/25 03:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/25 19:57	03/07/25 03:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 19:57	03/07/25 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-i Clorohd ne	1+0	S1a	+7 - 107				703/ 352 168+	703+352 7086	1
o-9erTCenpl	1/ 1	S1a	+7 - 107				703/ 352 168+	703+352 7086	1

1 ethMr : TzG o- - N 4GniMns, IMh ChHmatMHaph) 4SMuble

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
ChIMHr e	o- v		10.1		mg/Kg			03/07/25 11:15	1

Client Sample ID: CS 4o

Lab Sample ID: 80-49934c

Date CMIexter : - od 3d3 22:2-

1 atHA: SMir

Date Rexei/ er : - od vdt3 - 0:- -

Sample Depth: 2

1 ethMr : S. 85v 8- c2W46Matile BH/anix CMmpMunr s Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/25 14:17	03/06/25 23:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/25 14:17	03/06/25 23:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/25 14:17	03/06/25 23:28	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/06/25 14:17	03/06/25 23:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/25 14:17	03/06/25 23:28	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/06/25 14:17	03/06/25 23:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		+7 - 107	703/ 352 148+	703/ 352 508y	1
1:4-, fluorobenzene (Surr)	62		+7 - 107	703/ 352 148+	703/ 352 508y	1

1 ethMr : f GL SBz f Mal Wf TE 4f Mal Wf TE CalculatiMh

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/06/25 23:28	1

1 ethMr : S. 85v 8- 23 X1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total TPH	<50.0	U	50.0		mg/Kg			03/07/25 04:10	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

Client Sample ID: CS 4o

Lab Sample ID: 80-49934o

Date CMIexter : - od 3d3 22:2-

1 atHA: SMir

Date Rexei/ er : - od vdt3 - 0:- -

Sample Depth: 2

1 ethMr : S. 85v 8- 23WX1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 19:57	03/07/25 04:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 19:57	03/07/25 04:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 19:57	03/07/25 04:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-i Qorooht ne	y5		+7 - 107				703/ 352 168+	703/ 352 748/7	1
o-9erTCenpl	++		+7 - 107				703/ 352 168+	703/ 352 748/7	1

1 ethMr : TzG o- - N 4GniMs, ImH ChHmatMHaph) 4SMuble

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
ChIMHr e	22o		10.0		mg/Kg			03/07/25 11:21	1

Client Sample ID: CS 45

Lab Sample ID: 80-49934o

Date CMIexter : - od 3d3 22:23

1 atHA: SMir

Date Rexei/ er : - od vdt3 - 0:- -

Sample Depth: 2

1 ethMr : S. 85v 8- c2W46Matile BH/anix CMmpMunr s Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 14:17	03/06/25 23:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 14:17	03/06/25 23:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/25 14:17	03/06/25 23:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 14:17	03/06/25 23:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 14:17	03/06/25 23:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 14:17	03/06/25 23:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		+7 - 107				703/ 352 148+	703/ 352 508/y	1
1:4-, fluorobenzene (Surr)	6+		+7 - 107				703/ 352 148+	703/ 352 508/y	1

1 ethMr : f GL SBz f Mal Wf TE 4f Mal Wf TE CalxulatImH

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/25 23:48	1

1 ethMr : S. 85v 8- 23 X1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total TPH	<49.8	U	49.8		mg/Kg			03/07/25 04:27	1

1 ethMr : S. 85v 8- 23WX1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 19:57	03/07/25 04:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 19:57	03/07/25 04:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 19:57	03/07/25 04:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-i Qorooht ne	y7		+7 - 107				703/ 352 168+	703/ 352 748+	1
o-9erTCenpl	+6		+7 - 107				703/ 352 168+	703/ 352 748+	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

Client Sample ID: CS 45

Lab Sample ID: 80-499345

Date CMlexter : - od 3d3 22:23

1 atHA: SMir

Date Rexei/ er : - od vd3 - 0:- -

Sample Depth: 2

1 ethMr : TzG o- - N 4GniMs, IMh ChHmatMhaph) 4SMuble

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
ChIMHre	55N	y2	9.92		mg/Kg			03/07/25 09:39	1

Client Sample ID: CS 43

Lab Sample ID: 80-499345

Date CMlexter : - od 3d3 22:c-

1 atHA: SMir

Date Rexei/ er : - od vd3 - 0:- -

Sample Depth: c

1 ethMr : S. 85v 8- c2W46Matile BHVanix CMmpMunr s Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 14:17	03/07/25 00:09	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 14:17	03/07/25 00:09	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 14:17	03/07/25 00:09	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/06/25 14:17	03/07/25 00:09	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 14:17	03/07/25 00:09	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/06/25 14:17	03/07/25 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		+7 - 107				703/ 352 148+	703+352 778/6	1
1:4-, Difluorobenzene (Surr)	6/		+7 - 107				703/ 352 148+	703+352 778/6	1

1 ethMr : f GL SBz f Mal Wf TE 4f Mal Wf TE CalxulatiMh

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/07/25 00:09	1

1 ethMr : S. 85v 8- 23 X1 4Diesel RanVe BHVanixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
Total TPH	<50.0	U	50.0		mg/Kg			03/07/25 04:42	1

1 ethMr : S. 85v 8- 23WX1 4Diesel RanVe BHVanixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 19:57	03/07/25 04:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 19:57	03/07/25 04:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 19:57	03/07/25 04:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-i Chlorohd ne	+y		+7 - 107				703/ 352 168+	703+352 748/5	1
o-9erTCenpl	+2		+7 - 107				703/ 352 168+	703+352 748/5	1

1 ethMr : TzG o- - N 4GniMs, IMh ChHmatMhaph) 4SMuble

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
ChIMHre	23M		10.0		mg/Kg			03/07/25 09:57	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

Client Sample ID: CS 4v

Lab Sample ID: 80-49934v

Date CMIexter : - od 3d3 22:c3

1 atHA: SMir

Date Rexei/ er : - od vd3 - 0:- -

Sample Depth: c

1 ethMr : S. 85v 8- c2W46Matile BH/anix CMmpMunr s Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/07/25 00:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/07/25 00:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/07/25 00:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/06/25 14:17	03/07/25 00:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/07/25 00:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/06/25 14:17	03/07/25 00:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		+7 - 107	703/ 352 148+	703/ 352 7786	1
1:4-, Difluorobenzene (Surr)	6+		+7 - 107	703/ 352 148+	703/ 352 7786	1

1 ethMr : f GL SBz f Mal Wf TE 4f Mal Wf TE CalxulatiMh

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/07/25 00:29	1

1 ethMr : S. 85v 8- 23 X1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total TPH	<49.8	U	49.8		mg/Kg			03/07/25 04:58	1

1 ethMr : S. 85v 8- 23WX1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 19:57	03/07/25 04:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 19:57	03/07/25 04:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 19:57	03/07/25 04:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-i Chlorohd ne	+y		+7 - 107	703/ 352 168+	703/ 352 748y	1
o-9erTCenpl	+4		+7 - 107	703/ 352 168+	703/ 352 748y	1

1 ethMr : TzG o- - N 4GniMns, IMh ChHMmatMhaph) 4SMuble

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
ChIMHr e	23M		9.96		mg/Kg			03/07/25 10:03	1

Client Sample ID: CS 49

Lab Sample ID: 80-49934v

Date CMIexter : - od 3d3 22:o-

1 atHA: SMir

Date Rexei/ er : - od vd3 - 0:- -

Sample Depth: 2

1 ethMr : S. 85v 8- c2W46Matile BH/anix CMmpMunr s Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/07/25 00:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/07/25 00:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/07/25 00:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 14:17	03/07/25 00:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/07/25 00:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 14:17	03/07/25 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		+7 - 107	703/ 352 148+	703/ 352 7787	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

Client Sample ID: CS 49

Lab Sample ID: 80-499348

Date CMLexter : - od 3d3 22:o-

1 atHA: SMir

Date Rexei/ er : - od v03 - 0:- -

Sample Depth: 2

1 ethMr : S. 85v 8- c2W46Matile BH/anix CMmpMunr s Q C(CMntinuer (

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1:4-, fluorobenzene (Surr)	6+		+7 - 107	703/ 352 148+	703+352 7787	1

1 ethMr : f GL SBz f Mal Wf TE 4f Mal Wf TE CalculatiMh

Gnal) te	Result	UualiQeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/07/25 00:50	1

1 ethMr : S. 85v 8- 23 X1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiQeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total TPH	<50.0	U	50.0		mg/Kg			03/07/25 05:13	1

1 ethMr : S. 85v 8- 23WX1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiQeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 19:57	03/07/25 05:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 19:57	03/07/25 05:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 19:57	03/07/25 05:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-i Clorohd ne	y1		+7 - 107				703/ 352 168+	703+352 7280	1
o-9erTCenpl	+y		+7 - 107				703/ 352 168+	703+352 7280	1

1 ethMr : TzG o- - N 4GniMns, IMh ChHmatMhaph) 4SMuble

Gnal) te	Result	UualiQeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
ChIMHr e	5- -		10.1		mg/Kg			03/07/25 10:09	1

Client Sample ID: CS 48

Lab Sample ID: 80-499348

Date CMLexter : - od 3d3 22:o3

1 atHA: SMir

Date Rexei/ er : - od v03 - 0:- -

Sample Depth: 2

1 ethMr : S. 85v 8- c2W46Matile BH/anix CMmpMunr s Q C(

Gnal) te	Result	UualiQeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 14:17	03/07/25 01:10	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 14:17	03/07/25 01:10	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 14:17	03/07/25 01:10	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/06/25 14:17	03/07/25 01:10	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 14:17	03/07/25 01:10	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/06/25 14:17	03/07/25 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		+7 - 107	703/ 352 148+	703+352 7187	1
1:4-, fluorobenzene (Surr)	62		+7 - 107	703/ 352 148+	703+352 7187	1

1 ethMr : f GL SBz f Mal Wf TE 4f Mal Wf TE CalculatiMh

Gnal) te	Result	UualiQeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/07/25 01:10	1

1 ethMr : S. 85v 8- 23 X1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiQeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
f Mal f z 7	32N		49.9		mg/Kg			03/07/25 05:28	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

Client Sample ID: CS 48

Lab Sample ID: 80-499348

Date CMLexter : - od 3d3 22:o3

1 atHA: SMir

Date Rexei/ er : - od vd3 - 0:- -

Sample Depth: 2

1 ethMr : S. 85v 8- 23WX1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/25 19:57	03/07/25 05:28	1
Diesel RanVe BH/anixs B/ eH C2-4Cc8(	32N		49.9		mg/Kg		03/06/25 19:57	03/07/25 05:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/25 19:57	03/07/25 05:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-i Qorooht ne	y4		+7 - 107				703/ 352 168+	703+352 728y	1
o-9erTCenpl	y7		+7 - 107				703/ 352 168+	703+352 728y	1

1 ethMr : TzG o- - N 4GniMs, ImH ChHmatMHaph) 4SMuble

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
ChIMHr e	c98		9.94		mg/Kg			03/07/25 10:15	1

Client Sample ID: CS 40

Lab Sample ID: 80-499340

Date CMLexter : - od 3d3 22:5-

1 atHA: SMir

Date Rexei/ er : - od vd3 - 0:- -

Sample Depth: 2

1 ethMr : S. 85v 8- c2W46Matile BH/anix CMmpMunr s Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 14:17	03/07/25 01:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 14:17	03/07/25 01:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/25 14:17	03/07/25 01:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 14:17	03/07/25 01:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 14:17	03/07/25 01:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 14:17	03/07/25 01:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	11y		+7 - 107				703/ 352 148+	703+352 71801	1
1:4-, Fluorobenzene (Surr)	61		+7 - 107				703/ 352 148+	703+352 71801	1

1 ethMr : f GL SBz f Mal Wf TE 4f Mal Wf TE CalxulatImH

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/25 01:31	1

1 ethMr : S. 85v 8- 23 X1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total TPH	<49.8	U	49.8		mg/Kg			03/07/25 05:43	1

1 ethMr : S. 85v 8- 23WX1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 19:57	03/07/25 05:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 19:57	03/07/25 05:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 19:57	03/07/25 05:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-i Qorooht ne	65		+7 - 107				703/ 352 168+	703+352 7280	1
o-9erTCenpl	y2		+7 - 107				703/ 352 168+	703+352 7280	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

Client Sample ID: CS 40

Lab Sample ID: 80-499340

Date CMlexter : - od 3d3 22:5-

1 atHA: SMir

Date Rexei/ er : - od vd3 - 0:- -

Sample Depth: 2

1 ethMr : TzG o- - N 4GniMhs, IMh ChHmatMhaph) 4SMuble

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
ChIMHr e	o28		9.98		mg/Kg			03/07/25 10:53	1

Client Sample ID: CS 42-

Lab Sample ID: 80-499342-

Date CMlexter : - od 3d3 22:53

1 atHA: SMir

Date Rexei/ er : - od vd3 - 0:- -

Sample Depth: c

1 ethMr : S. 85v 8- c2W46Matile BHVanix CMmpMunr s Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 14:17	03/07/25 01:51	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 14:17	03/07/25 01:51	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 14:17	03/07/25 01:51	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/06/25 14:17	03/07/25 01:51	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 14:17	03/07/25 01:51	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/06/25 14:17	03/07/25 01:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		+7 - 107				703/ 352 148+	703/352 7181	1
1:4-, Difluorobenzene (Surr)	62		+7 - 107				703/ 352 148+	703/352 7181	1

1 ethMr : f GL SBz f Mal Wf TE 4f Mal Wf TE CalxulatiMh

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/07/25 01:51	1

1 ethMr : S. 85v 8- 23 X1 4Diesel RanVe BHVanix DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
Total TPH	<49.7	U	49.7		mg/Kg			03/07/25 05:59	1

1 ethMr : S. 85v 8- 23WX1 4Diesel RanVe BHVanix DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/06/25 19:57	03/07/25 05:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/06/25 19:57	03/07/25 05:59	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/06/25 19:57	03/07/25 05:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-i Chlorohd ne	y0		+7 - 107				703/ 352 168+	703/352 7286	1
o-9erTCenpl	+y		+7 - 107				703/ 352 168+	703/352 7286	1

1 ethMr : TzG o- - N 4GniMhs, IMh ChHmatMhaph) 4SMuble

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
ChIMHr e	c28		9.96		mg/Kg			03/07/25 10:59	1

Eurofins Carlsbad

Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

Client Sample ID: CS 422

Lab Sample ID: 80-4993422

Date CMLexter : - od 3d3 22:59

1 atHA: SMir

Date Rexei/ er : - od vd3 - 0:- -

Sample Depth: c

1 ethMr : S. 85v 8- c2W46Matile BH/anix CMmpMunr s Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/07/25 03:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/07/25 03:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/07/25 03:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 14:17	03/07/25 03:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/07/25 03:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 14:17	03/07/25 03:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	11y		+7 - 107	703/ 352 148+	703/+352 708/4	1
1:4-, Difluorobenzene (Surr)	62		+7 - 107	703/ 352 148+	703/+352 708/4	1

1 ethMr : f GL SBz f Mal Wf TE 4f Mal Wf TE CalxulatImh

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/07/25 03:14	1

1 ethMr : S. 85v 8- 23 X1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total TPH	<50.0	U	50.0		mg/Kg			03/07/25 06:13	1

1 ethMr : S. 85v 8- 23WX1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 19:57	03/07/25 06:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/25 19:57	03/07/25 06:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 19:57	03/07/25 06:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-i Chlorohd ne	y4		+7 - 107	703/ 352 168+	703/+352 7/ 8/0	1
o-9erTCenpl	+y		+7 - 107	703/ 352 168+	703/+352 7/ 8/0	1

1 ethMr : TzG o- - N 4GniMns, IMh ChHMmatMhaph) 4SMuble

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
ChIMHr e	259		10.0		mg/Kg			03/07/25 11:05	1

Client Sample ID: S. 42

Lab Sample ID: 80-499342c

Date CMLexter : - od 3d3 22:3-

1 atHA: SMir

Date Rexei/ er : - od vd3 - 0:- -

Sample Depth: - 4c

1 ethMr : S. 85v 8- c2W46Matile BH/anix CMmpMunr s Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/25 14:17	03/07/25 03:35	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/25 14:17	03/07/25 03:35	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/25 14:17	03/07/25 03:35	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/06/25 14:17	03/07/25 03:35	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/25 14:17	03/07/25 03:35	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/06/25 14:17	03/07/25 03:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		+7 - 107	703/ 352 148+	703/+352 708/2	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

Client Sample ID: S. 42

Lab Sample ID: 80-499342c

Date CMLexter : - od 3d3 22:3-

1 atHA: SMir

Date Rexei/ er : - od v03 - 0:- -

Sample Depth: - 4c

1 ethMr : S. 85v 8- c2W46Matile BH/anix CMmpMunr s Q C(CMntinuer (

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1:4-, fluorobenzene (Surr)	6y		+7 - 107	703/ 352 148+	703/352 7082	1

1 ethMr : f GL SBz f Mal Wf TE 4f Mal Wf TE CalculatiMh

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/07/25 03:35	1

1 ethMr : S. 85v 8- 23 X1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total TPH	<49.8	U	49.8		mg/Kg			03/07/25 06:29	1

1 ethMr : S. 85v 8- 23WX1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/06/25 19:57	03/07/25 06:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/06/25 19:57	03/07/25 06:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/06/25 19:57	03/07/25 06:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-i Clorohd ne	y2		+7 - 107				703/ 352 162+	703/352 7/ 86	1
o-9erTCenpl	++		+7 - 107				703/ 352 162+	703/352 7/ 86	1

1 ethMr : TzG o- - N 4GniMns, IMh ChHmatMhaph) 4SMuble

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
ChIMHr e	o- 0		10.1		mg/Kg			03/07/25 11:12	1

Client Sample ID: S. 4c

Lab Sample ID: 80-499342c

Date CMLexter : - od 3d3 22:33

1 atHA: SMir

Date Rexei/ er : - od v03 - 0:- -

Sample Depth: - 4c

1 ethMr : S. 85v 8- c2W46Matile BH/anix CMmpMunr s Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/25 14:17	03/07/25 03:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/25 14:17	03/07/25 03:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/25 14:17	03/07/25 03:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/25 14:17	03/07/25 03:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/25 14:17	03/07/25 03:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/25 14:17	03/07/25 03:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	176		+7 - 107	703/ 352 148+	703/352 7082	1
1:4-, fluorobenzene (Surr)	62		+7 - 107	703/ 352 148+	703/352 7082	1

1 ethMr : f GL SBz f Mal Wf TE 4f Mal Wf TE CalculatiMh

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/25 03:55	1

1 ethMr : S. 85v 8- 23 X1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total TPH	<49.6	U	49.6		mg/Kg			03/07/25 11:13	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

Client Sample ID: S. 4c

Lab Sample ID: 80-4993420

Date CMLexter : - od 3d3 22:33

1 atHA: SMir

Date Rexei/ er : - od vdt3 - 0:- -

Sample Depth: - 4c

1 ethMr : S. 85v 8- 23WX1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		03/07/25 10:57	03/07/25 11:13	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		03/07/25 10:57	03/07/25 11:13	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/07/25 10:57	03/07/25 11:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-i Qorooht ne	100	S1a	+7 - 107				703+352 178+	703+352 118/0	1
o-9erTCenpl	157		+7 - 107				703+352 178+	703+352 118/0	1

1 ethMr : TzG o- - N 4GniMs, ImH ChHmatMHaph) 4SMuble

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
ChIMHr e	289		10.1		mg/Kg			03/07/25 11:18	1

Client Sample ID: S. 4o

Lab Sample ID: 80-4993425

Date CMLexter : - od 3d3 2c:- -

1 atHA: SMir

Date Rexei/ er : - od vdt3 - 0:- -

Sample Depth: - 4c

1 ethMr : S. 85v 8- c2W46Matile BH/anix CMmpMunr s Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/07/25 04:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/07/25 04:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/07/25 04:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/25 14:17	03/07/25 04:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/25 14:17	03/07/25 04:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/25 14:17	03/07/25 04:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		+7 - 107				703/ 352 148/ +	703+352 748/	1
1:4-, Difluorobenzene (Surr)	6/		+7 - 107				703/ 352 148/ +	703+352 748/	1

1 ethMr : f GL SBz f Mal Wf TE 4f Mal Wf TE CalxulatImH

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/07/25 04:16	1

1 ethMr : S. 85v 8- 23 X1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Total TPH	<50.3	U	50.3		mg/Kg			03/07/25 11:29	1

1 ethMr : S. 85v 8- 23WX1 4Diesel RanVe BH/anixs DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z HpaHr	Gnal) Fer	Dil yax
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		03/07/25 10:57	03/07/25 11:29	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		03/07/25 10:57	03/07/25 11:29	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		03/07/25 10:57	03/07/25 11:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-i Qorooht ne	154		+7 - 107				703+352 178+	703+352 11866	1
o-9erTCenpl	11/		+7 - 107				703+352 178+	703+352 11866	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

Client Sample ID: S. 4o

Lab Sample ID: 80-4993425

Date CMlexter : - od 3d3 2c:- -

1 atHA: SMir

Date Rexei/ er : - od vd3 - 0:- -

Sample Depth: - 4c

1 ethMr : TzG o- - N 4GniMs, IMh ChHmatMhaph) 4SMuble

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
ChIMHre	c33	y2	10.0		mg/Kg			03/07/25 11:24	1

Client Sample ID: S. 45

Lab Sample ID: 80-4993423

Date CMlexter : - od 3d3 2c:- 3

1 atHA: SMir

Date Rexei/ er : - od vd3 - 0:- -

Sample Depth: - 4c

1 ethMr : S. 85v 8- c2W46Matile BHVanix CMmpMunr s Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/25 14:17	03/07/25 04:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/25 14:17	03/07/25 04:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/25 14:17	03/07/25 04:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/25 14:17	03/07/25 04:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/25 14:17	03/07/25 04:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/25 14:17	03/07/25 04:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		+7 - 107				703/ 352 148+	703/352 748/	1
1:4-, Difluorobenzene (Surr)	62		+7 - 107				703/ 352 148+	703/352 748/	1

1 ethMr : f GL SBz f Mal Wf TE 4f Mal Wf TE CalxulatiMh

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/07/25 04:36	1

1 ethMr : S. 85v 8- 23 X1 4Diesel RanVe BHVanix DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
f Mal f z 7	v5N		50.0		mg/Kg			03/07/25 01:51	1

1 ethMr : S. 85v 8- 23WX1 4Diesel RanVe BHVanix DRB(Q C(

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/25 19:59	03/07/25 01:51	1
Diesel RanVe BHVanix Q/ eH C2-4Cc8(	v5N		50.0		mg/Kg		03/06/25 19:59	03/07/25 01:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/25 19:59	03/07/25 01:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-i Clorohd ne	+2		+7 - 107				703/ 352 1686	703/352 7181	1
o-9erTCenpl	y7		+7 - 107				703/ 352 1686	703/352 7181	1

1 ethMr : TzG o- - N 4GniMs, IMh ChHmatMhaph) 4SMuble

Gnal) te	Result	UualiqeH	RL	1 DL	Pnit	D	z Hpahter	Gnal) Fer	Dil yax
ChIMHre	c28		10.0		mg/Kg			03/07/25 11:42	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
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)
890-7775-1	CS - 1	129	91
890-7775-1 MS	CS - 1	93	107
890-7775-1 MSD	CS - 1	94	102
890-7775-2	CS - 2	111	96
890-7775-3	CS - 3	112	95
890-7775-4	CS - 4	119	97
890-7775-5	CS - 5	112	96
890-7775-6	CS - 6	111	97
890-7775-7	CS - 7	113	97
890-7775-8	CS - 8	110	95
890-7775-9	CS - 9	118	91
890-7775-10	CS - 10	110	95
890-7775-11	CS - 11	118	95
890-7775-12	SW - 1	113	98
890-7775-13	SW - 2	109	95
890-7775-14	SW - 3	110	96
890-7775-15	SW - 4	112	95
LCS 880-104641/1-A	Lab Control Sample	86	108
LCSD 880-104641/2-A	Lab Control Sample Dup	86	107
MB 880-104564/5-A	Method Blank	109	85
MB 880-104641/5-A	Method Blank	104	85
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)
890-7775-1	CS - 1	159 S1+	150 S1+
890-7775-2	CS - 2	173 S1+	161 S1+
890-7775-3	CS - 3	82	77
890-7775-4	CS - 4	80	79
890-7775-5	CS - 5	78	75
890-7775-6	CS - 6	78	74
890-7775-7	CS - 7	81	78
890-7775-8	CS - 8	84	80
890-7775-9	CS - 9	92	85
890-7775-10	CS - 10	83	78
890-7775-11	CS - 11	84	78
890-7775-12	SW - 1	85	77
890-7775-13	SW - 2	133 S1+	120
890-7775-13 MS	SW - 2	70	69 S1-
890-7775-13 MSD	SW - 2	74	73
890-7775-14	SW - 3	124	116
890-7775-15	SW - 4	75	80
LCS 880-104677/2-A	Lab Control Sample	122	109

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
LCS 880-104678/2-A	Lab Control Sample	108	107
LCS 880-104680/2-A	Lab Control Sample	79	82
LCSD 880-104677/3-A	Lab Control Sample Dup	125	111
LCSD 880-104678/3-A	Lab Control Sample Dup	108	106
LCSD 880-104680/3-A	Lab Control Sample Dup	77	79
MB 880-104677/1-A	Method Blank	91	83
MB 880-104678/1-A	Method Blank	75	78
MB 880-104680/1-A	Method Blank	107	98
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-104564/5-A

Matrix: Solid

Analysis Batch: 104557

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<en. ene	0.00200	K	0.00200		m3/63		04/08/25 08:28	04/08/25 11:40	1
Toluene	0.00200	K	0.00200		m3/63		04/08/25 08:28	04/08/25 11:40	1
Ethylben. ene	0.00200	K	0.00200		m3/63		04/08/25 08:28	04/08/25 11:40	1
m-Xylene & p-Xylene	0.00200	K	0.00200		m3/63		04/08/25 08:28	04/08/25 11:40	1
o-Xylene	0.00200	K	0.00200		m3/63		04/08/25 08:28	04/08/25 11:40	1
Xylenes, Total	0.00200	K	0.00200		m3/63		04/08/25 08:28	04/08/25 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/06/25 08:46	03/06/25 11:30	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/06/25 08:46	03/06/25 11:30	1

Lab Sample ID: MB 880-104641/5-A

Matrix: Solid

Analysis Batch: 104557

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104641

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<en. ene	0.00200	K	0.00200		m3/63		04/08/25 12:17	04/08/25 22:25	1
Toluene	0.00200	K	0.00200		m3/63		04/08/25 12:17	04/08/25 22:25	1
Ethylben. ene	0.00200	K	0.00200		m3/63		04/08/25 12:17	04/08/25 22:25	1
m-Xylene & p-Xylene	0.00200	K	0.00200		m3/63		04/08/25 12:17	04/08/25 22:25	1
o-Xylene	0.00200	K	0.00200		m3/63		04/08/25 12:17	04/08/25 22:25	1
Xylenes, Total	0.00200	K	0.00200		m3/63		04/08/25 12:17	04/08/25 22:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/06/25 14:17	03/06/25 22:25	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/06/25 14:17	03/06/25 22:25	1

Lab Sample ID: LCS 880-104641/1-A

Matrix: Solid

Analysis Batch: 104557

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104641

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
<en. ene	0.100	0.09715		m3/63		97	70 - 140
Toluene	0.100	0.09299		m3/63		94	70 - 140
Ethylben. ene	0.100	0.08100		m3/63		81	70 - 140
m-Xylene & p-Xylene	0.200	0.1811		m3/63		81	70 - 140
o-Xylene	0.100	0.08172		m3/63		82	70 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-104641/2-A

Matrix: Solid

Analysis Batch: 104557

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104641

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
<en. ene	0.100	0.100B		m3/63		101	70 - 140	z	45

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-104641/2-A

Matrix: Solid

Analysis Batch: 104557

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104641

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD
							Limits	RPD	Limit
Toluene	0g/100	0g/9B19		m3/63		9B	70 - 140	4	45
Ethylben. ene	0g/100	0g/8512		m3/63		85	70 - 140	5	45
m-Xylene & p-Xylene	0g/200	0g/1B92		m3/63		85	70 - 140	5	45
o-Xylene	0g/100	0g/8B14		m3/63		8B	70 - 140	5	45

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-7775-1 MS

Matrix: Solid

Analysis Batch: 104557

Client Sample ID: CS - 1

Prep Type: Total/NA

Prep Batch: 104641

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
<en. ene	U0g/0200	K	0g/100	0g/147		m3/63		11z	70 - 140	
Toluene	U0g/0200	K	0g/100	0g/11z		m3/63		111	70 - 140	
Ethylben. ene	U0g/0200	K	0g/100	0g/99z7		m3/63		99	70 - 140	
m-Xylene & p-Xylene	U0g/0499	K	0g/200	0g/200z		m3/63		100	70 - 140	
o-Xylene	U0g/0200	K	0g/100	0g/99B7		m3/63		100	70 - 140	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-7775-1 MSD

Matrix: Solid

Analysis Batch: 104557

Client Sample ID: CS - 1

Prep Type: Total/NA

Prep Batch: 104641

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD
									Limits	RPD	Limit
<en. ene	U0g/0200	K	0g/100	0g/1050		m3/63		105	70 - 140	8	45
Toluene	U0g/0200	K	0g/100	0g/10z8		m3/63		105	70 - 140	B	45
Ethylben. ene	U0g/0200	K	0g/100	0g/9408		m3/63		94	70 - 140	7	45
m-Xylene & p-Xylene	U0g/0499	K	0g/200	0g/1859		m3/63		94	70 - 140	8	45
o-Xylene	U0g/0200	K	0g/100	0g/940B		m3/63		94	70 - 140	7	45

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-104677/1-A

Matrix: Solid

Analysis Batch: 104594

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104677

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Ran3e (r3anics)GR(v-CB-C10	U50g/	K	50g/		m3/63		04/0B/25 19:5B	04/07/25 00:04	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-104677/1-A

Matrix: Solid

Analysis Batch: 104594

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104677

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Ran3e (r3anics)(f er C10-C28v	U50g	K	50g		m3/63		04/08/25 19:5B	04/07/25 00:04	1
(il Ran3e (r3anics)(f er C28-C4Bv	U50g	K	50g		m3/63		04/08/25 19:5B	04/07/25 00:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				03/06/25 19:56	03/07/25 00:03	1
o-Terphenyl	83		70 - 130				03/06/25 19:56	03/07/25 00:03	1

Lab Sample ID: LCS 880-104677/2-A

Matrix: Solid

Analysis Batch: 104594

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Ran3e (r3anics)GR(v-CB-C10	1000	1121		m3/63		112	70 - 140		
Diesel Ran3e (r3anics)(f er C10-C28v	1000	1159		m3/63		11B	70 - 140		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	122		70 - 130						
o-Terphenyl	109		70 - 130						

Lab Sample ID: LCSD 880-104677/3-A

Matrix: Solid

Analysis Batch: 104594

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104677

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Ran3e (r3anics)GR(v-CB-C10	1000	1224		m3/63		122	70 - 140	9	20
Diesel Ran3e (r3anics)(f er C10-C28v	1000	1189		m3/63		119	70 - 140	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	125		70 - 130						
o-Terphenyl	111		70 - 130						

Lab Sample ID: MB 880-104678/1-A

Matrix: Solid

Analysis Batch: 104596

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104678

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Ran3e (r3anics)GR(v-CB-C10	U50g	K	50g		m3/63		04/08/25 19:5B	04/07/25 00:04	1
Diesel Ran3e (r3anics)(f er C10-C28v	U50g	K	50g		m3/63		04/08/25 19:5B	04/07/25 00:04	1
(il Ran3e (r3anics)(f er C28-C4Bv	U50g	K	50g		m3/63		04/08/25 19:5B	04/07/25 00:04	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				03/06/25 19:56	03/07/25 00:03	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-104678/1-A
Matrix: Solid
Analysis Batch: 104596

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 104678

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		70 - 130	03/06/25 19:56	03/07/25 00:03	1

Lab Sample ID: LCS 880-104678/2-A
Matrix: Solid
Analysis Batch: 104596

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 104678

Analyte	Spike		LCS	LCS	Unit	D	%Rec	%Rec	Limits		
	Added		Result	Qualifier							
Gasoline Ran3e (r3anics)GR(v-CB-C10	1000		1015		m3/63		102		70 - 140		
Diesel Ran3e (r3anics)(f er C10-C28v	1000		11B1		m3/63		11B		70 - 140		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	107		70 - 130								

Lab Sample ID: LCSD 880-104678/3-A
Matrix: Solid
Analysis Batch: 104596

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 104678

Analyte			Spike	LCSD	LCSD			%Rec			RPD
			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Ran3e (r3anics)GR(v-CB-C10			1000	1018		m3/63		102	70 - 140	0	20
Diesel Ran3e (r3anics)(f er C10-C28v			1000	117B		m3/63		118	70 - 140	1	20
		LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	106		70 - 130								

Lab Sample ID: 890-7775-13 MS
Matrix: Solid
Analysis Batch: 104596

Client Sample ID: SW - 2
Prep Type: Total/NA
Prep Batch: 104678

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier							
Gasoline Ran3e (r3anics)GR(v-CB-C10	Uz9g	K F1	99B	B25g	F1	m3/63		B4	70 - 140			
Diesel Ran3e (r3anics)(f er C10-C28v	Uz9g	K	99B	752g		m3/63		7B	70 - 140			
Surrogate	MS	MS	Limits									
	%Recovery	Qualifier										
1-Chlorooctane	70		70 - 130									
o-Terphenyl	69	S1-	70 - 130									

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

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

Lab Sample ID: 890-7775-13 MSD

Matrix: Solid

Analysis Batch: 104596

Client Sample ID: SW - 2

Prep Type: Total/NA

Prep Batch: 104678

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Ran3e (r3anics)GR(v-CB-C10	Uz9g	K F1	99B	B58g	F1	m3/63		BB	70 - 140	5	20
Diesel Ran3e (r3anics)(f er C10-C28v	Uz9g	K	99B	79zg		m3/63		80	70 - 140	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	74		70 - 130								
o-Terphenyl	73		70 - 130								

Lab Sample ID: MB 880-104680/1-A

Matrix: Solid

Analysis Batch: 104612

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 104680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Ran3e (r3anics)GR(v-CB-C10	U50g	K	50g		m3/63		04/08/25 19:57	04/07/25 01:15	1
Diesel Ran3e (r3anics)(f er C10-C28v	U50g	K	50g		m3/63		04/08/25 19:57	04/07/25 01:15	1
(il Ran3e (r3anics)(f er C28-C4Bv	U50g	K	50g		m3/63		04/08/25 19:57	04/07/25 01:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				03/06/25 19:57	03/07/25 01:15	1
o-Terphenyl	98		70 - 130				03/06/25 19:57	03/07/25 01:15	1

Lab Sample ID: LCS 880-104680/2-A

Matrix: Solid

Analysis Batch: 104612

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 104680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Ran3e (r3anics)GR(v-CB-C10	1000	107B		m3/63		108	70 - 140		
Diesel Ran3e (r3anics)(f er C10-C28v	1000	1072		m3/63		107	70 - 140		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	79		70 - 130						
o-Terphenyl	82		70 - 130						

Lab Sample ID: LCSD 880-104680/3-A

Matrix: Solid

Analysis Batch: 104612

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 104680

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Ran3e (r3anics)GR(v-CB-C10	1000	1042		m3/63		104	70 - 140	z	20
Diesel Ran3e (r3anics)(f er C10-C28v	1000	1001		m3/63		100	70 - 140	7	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-104680/3-A
Matrix: Solid
Analysis Batch: 104612

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 104680

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	77		70 - 130
o-Terphenyl	79		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-104670/1-A
Matrix: Solid
Analysis Batch: 104698

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	U10g	K	10g		m3/63			04/07/25 08:25	1

Lab Sample ID: LCS 880-104670/2-A
Matrix: Solid
Analysis Batch: 104698

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	252g		m3/63		101	90 - 110		

Lab Sample ID: LCSD 880-104670/3-A
Matrix: Solid
Analysis Batch: 104698

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	252g		m3/63		101	90 - 110	0	20

Lab Sample ID: MB 880-104671/1-A
Matrix: Solid
Analysis Batch: 104699

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	U10g	K	10g		m3/63			04/07/25 09:20	1

Lab Sample ID: LCS 880-104671/2-A
Matrix: Solid
Analysis Batch: 104699

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	2B2g		m3/63		105	90 - 110		

Lab Sample ID: LCSD 880-104671/3-A
Matrix: Solid
Analysis Batch: 104699

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	2B4g		m3/63		105	90 - 110	0	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-7775-4 MS

Matrix: Solid

Analysis Batch: 104699

Client Sample ID: CS - 4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	zzg	F1	2z8	429g	F1	m3/63		115	90 - 110		

Lab Sample ID: 890-7775-4 MSD

Matrix: Solid

Analysis Batch: 104699

Client Sample ID: CS - 4

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	zzg	F1	2z8	441g	F1	m3/63		11B	90 - 110	1	20

Lab Sample ID: 890-7775-14 MS

Matrix: Solid

Analysis Batch: 104699

Client Sample ID: SW - 3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	255	F1	250	5z2g	F1	m3/63		115	90 - 110		

Lab Sample ID: 890-7775-14 MSD

Matrix: Solid

Analysis Batch: 104699

Client Sample ID: SW - 3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	255	F1	250	5zBg	F1	m3/63		117	90 - 110	1	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 104557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7775-1	CS - 1	Total/NA	Solid	8021B	104641
890-7775-2	CS - 2	Total/NA	Solid	8021B	104641
890-7775-3	CS - 3	Total/NA	Solid	8021B	104641
890-7775-4	CS - 4	Total/NA	Solid	8021B	104641
890-7775-5	CS - 5	Total/NA	Solid	8021B	104641
890-7775-6	CS - 6	Total/NA	Solid	8021B	104641
890-7775-7	CS - 7	Total/NA	Solid	8021B	104641
890-7775-8	CS - 8	Total/NA	Solid	8021B	104641
890-7775-9	CS - 9	Total/NA	Solid	8021B	104641
890-7775-10	CS - 10	Total/NA	Solid	8021B	104641
890-7775-11	CS - 11	Total/NA	Solid	8021B	104641
890-7775-12	SW - 1	Total/NA	Solid	8021B	104641
890-7775-13	SW - 2	Total/NA	Solid	8021B	104641
890-7775-14	SW - 3	Total/NA	Solid	8021B	104641
890-7775-15	SW - 4	Total/NA	Solid	8021B	104641
MB 880-104564/5-A	Method Blank	Total/NA	Solid	8021B	104564
MB 880-104641/5-A	Method Blank	Total/NA	Solid	8021B	104641
LCS 880-104641/1-A	Lab Control Sample	Total/NA	Solid	8021B	104641
LCSD 880-104641/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	104641
890-7775-1 MS	CS - 1	Total/NA	Solid	8021B	104641
890-7775-1 MSD	CS - 1	Total/NA	Solid	8021B	104641

Prep Batch: 104564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-104564/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 104641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7775-1	CS - 1	Total/NA	Solid	5035	
890-7775-2	CS - 2	Total/NA	Solid	5035	
890-7775-3	CS - 3	Total/NA	Solid	5035	
890-7775-4	CS - 4	Total/NA	Solid	5035	
890-7775-5	CS - 5	Total/NA	Solid	5035	
890-7775-6	CS - 6	Total/NA	Solid	5035	
890-7775-7	CS - 7	Total/NA	Solid	5035	
890-7775-8	CS - 8	Total/NA	Solid	5035	
890-7775-9	CS - 9	Total/NA	Solid	5035	
890-7775-10	CS - 10	Total/NA	Solid	5035	
890-7775-11	CS - 11	Total/NA	Solid	5035	
890-7775-12	SW - 1	Total/NA	Solid	5035	
890-7775-13	SW - 2	Total/NA	Solid	5035	
890-7775-14	SW - 3	Total/NA	Solid	5035	
890-7775-15	SW - 4	Total/NA	Solid	5035	
MB 880-104641/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-104641/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-104641/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7775-1 MS	CS - 1	Total/NA	Solid	5035	
890-7775-1 MSD	CS - 1	Total/NA	Solid	5035	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 104725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7775-1	CS - 1	Total/NA	Solid	Total BTEX	
890-7775-2	CS - 2	Total/NA	Solid	Total BTEX	
890-7775-3	CS - 3	Total/NA	Solid	Total BTEX	
890-7775-4	CS - 4	Total/NA	Solid	Total BTEX	
890-7775-5	CS - 5	Total/NA	Solid	Total BTEX	
890-7775-6	CS - 6	Total/NA	Solid	Total BTEX	
890-7775-7	CS - 7	Total/NA	Solid	Total BTEX	
890-7775-8	CS - 8	Total/NA	Solid	Total BTEX	
890-7775-9	CS - 9	Total/NA	Solid	Total BTEX	
890-7775-10	CS - 10	Total/NA	Solid	Total BTEX	
890-7775-11	CS - 11	Total/NA	Solid	Total BTEX	
890-7775-12	SW - 1	Total/NA	Solid	Total BTEX	
890-7775-13	SW - 2	Total/NA	Solid	Total BTEX	
890-7775-14	SW - 3	Total/NA	Solid	Total BTEX	
890-7775-15	SW - 4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 104594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7775-1	CS - 1	Total/NA	Solid	8015B NM	104677
890-7775-2	CS - 2	Total/NA	Solid	8015B NM	104677
890-7775-3	CS - 3	Total/NA	Solid	8015B NM	104677
890-7775-4	CS - 4	Total/NA	Solid	8015B NM	104677
890-7775-5	CS - 5	Total/NA	Solid	8015B NM	104677
890-7775-6	CS - 6	Total/NA	Solid	8015B NM	104677
890-7775-7	CS - 7	Total/NA	Solid	8015B NM	104677
890-7775-8	CS - 8	Total/NA	Solid	8015B NM	104677
890-7775-9	CS - 9	Total/NA	Solid	8015B NM	104677
890-7775-10	CS - 10	Total/NA	Solid	8015B NM	104677
890-7775-11	CS - 11	Total/NA	Solid	8015B NM	104677
890-7775-12	SW - 1	Total/NA	Solid	8015B NM	104677
MB 880-104677/1-A	Method Blank	Total/NA	Solid	8015B NM	104677
LCS 880-104677/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104677
LCSD 880-104677/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104677

Analysis Batch: 104596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7775-15	SW - 4	Total/NA	Solid	8015B NM	104678
MB 880-104678/1-A	Method Blank	Total/NA	Solid	8015B NM	104678
LCS 880-104678/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104678
LCSD 880-104678/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104678
890-7775-13 MS	SW - 2	Total/NA	Solid	8015B NM	104678
890-7775-13 MSD	SW - 2	Total/NA	Solid	8015B NM	104678

Analysis Batch: 104612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7775-13	SW - 2	Total/NA	Solid	8015B NM	104680
890-7775-14	SW - 3	Total/NA	Solid	8015B NM	104680
MB 880-104680/1-A	Method Blank	Total/NA	Solid	8015B NM	104680
LCS 880-104680/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	104680

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 104612 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-104680/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	104680

Prep Batch: 104677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7775-1	CS - 1	Total/NA	Solid	8015NM Prep	
890-7775-2	CS - 2	Total/NA	Solid	8015NM Prep	
890-7775-3	CS - 3	Total/NA	Solid	8015NM Prep	
890-7775-4	CS - 4	Total/NA	Solid	8015NM Prep	
890-7775-5	CS - 5	Total/NA	Solid	8015NM Prep	
890-7775-6	CS - 6	Total/NA	Solid	8015NM Prep	
890-7775-7	CS - 7	Total/NA	Solid	8015NM Prep	
890-7775-8	CS - 8	Total/NA	Solid	8015NM Prep	
890-7775-9	CS - 9	Total/NA	Solid	8015NM Prep	
890-7775-10	CS - 10	Total/NA	Solid	8015NM Prep	
890-7775-11	CS - 11	Total/NA	Solid	8015NM Prep	
890-7775-12	SW - 1	Total/NA	Solid	8015NM Prep	
MB 880-104677/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104677/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104677/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 104678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7775-15	SW - 4	Total/NA	Solid	8015NM Prep	
MB 880-104678/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104678/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104678/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7775-13 MS	SW - 2	Total/NA	Solid	8015NM Prep	
890-7775-13 MSD	SW - 2	Total/NA	Solid	8015NM Prep	

Prep Batch: 104680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7775-13	SW - 2	Total/NA	Solid	8015NM Prep	
890-7775-14	SW - 3	Total/NA	Solid	8015NM Prep	
MB 880-104680/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-104680/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-104680/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 104724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7775-1	CS - 1	Total/NA	Solid	8015 NM	
890-7775-2	CS - 2	Total/NA	Solid	8015 NM	
890-7775-3	CS - 3	Total/NA	Solid	8015 NM	
890-7775-4	CS - 4	Total/NA	Solid	8015 NM	
890-7775-5	CS - 5	Total/NA	Solid	8015 NM	
890-7775-6	CS - 6	Total/NA	Solid	8015 NM	
890-7775-7	CS - 7	Total/NA	Solid	8015 NM	
890-7775-8	CS - 8	Total/NA	Solid	8015 NM	
890-7775-9	CS - 9	Total/NA	Solid	8015 NM	
890-7775-10	CS - 10	Total/NA	Solid	8015 NM	
890-7775-11	CS - 11	Total/NA	Solid	8015 NM	
890-7775-12	SW - 1	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Analysis Batch: 104724 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7775-13	SW - 2	Total/NA	Solid	8015 NM	
890-7775-14	SW - 3	Total/NA	Solid	8015 NM	
890-7775-15	SW - 4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 104670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7775-1	CS - 1	Soluble	Solid	DI Leach	
890-7775-2	CS - 2	Soluble	Solid	DI Leach	
890-7775-3	CS - 3	Soluble	Solid	DI Leach	
MB 880-104670/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104670/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104670/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 104671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7775-4	CS - 4	Soluble	Solid	DI Leach	
890-7775-5	CS - 5	Soluble	Solid	DI Leach	
890-7775-6	CS - 6	Soluble	Solid	DI Leach	
890-7775-7	CS - 7	Soluble	Solid	DI Leach	
890-7775-8	CS - 8	Soluble	Solid	DI Leach	
890-7775-9	CS - 9	Soluble	Solid	DI Leach	
890-7775-10	CS - 10	Soluble	Solid	DI Leach	
890-7775-11	CS - 11	Soluble	Solid	DI Leach	
890-7775-12	SW - 1	Soluble	Solid	DI Leach	
890-7775-13	SW - 2	Soluble	Solid	DI Leach	
890-7775-14	SW - 3	Soluble	Solid	DI Leach	
890-7775-15	SW - 4	Soluble	Solid	DI Leach	
MB 880-104671/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-104671/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-104671/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7775-4 MS	CS - 4	Soluble	Solid	DI Leach	
890-7775-4 MSD	CS - 4	Soluble	Solid	DI Leach	
890-7775-14 MS	SW - 3	Soluble	Solid	DI Leach	
890-7775-14 MSD	SW - 3	Soluble	Solid	DI Leach	

Analysis Batch: 104698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7775-1	CS - 1	Soluble	Solid	300.0	104670
890-7775-2	CS - 2	Soluble	Solid	300.0	104670
890-7775-3	CS - 3	Soluble	Solid	300.0	104670
MB 880-104670/1-A	Method Blank	Soluble	Solid	300.0	104670
LCS 880-104670/2-A	Lab Control Sample	Soluble	Solid	300.0	104670
LCSD 880-104670/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104670

Analysis Batch: 104699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7775-4	CS - 4	Soluble	Solid	300.0	104671
890-7775-5	CS - 5	Soluble	Solid	300.0	104671
890-7775-6	CS - 6	Soluble	Solid	300.0	104671

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

HPLC/IC (Continued)

Analysis Batch: 104699 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7775-7	CS - 7	Soluble	Solid	300.0	104671
890-7775-8	CS - 8	Soluble	Solid	300.0	104671
890-7775-9	CS - 9	Soluble	Solid	300.0	104671
890-7775-10	CS - 10	Soluble	Solid	300.0	104671
890-7775-11	CS - 11	Soluble	Solid	300.0	104671
890-7775-12	SW - 1	Soluble	Solid	300.0	104671
890-7775-13	SW - 2	Soluble	Solid	300.0	104671
890-7775-14	SW - 3	Soluble	Solid	300.0	104671
890-7775-15	SW - 4	Soluble	Solid	300.0	104671
MB 880-104671/1-A	Method Blank	Soluble	Solid	300.0	104671
LCS 880-104671/2-A	Lab Control Sample	Soluble	Solid	300.0	104671
LCSD 880-104671/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	104671
890-7775-4 MS	CS - 4	Soluble	Solid	300.0	104671
890-7775-4 MSD	CS - 4	Soluble	Solid	300.0	104671
890-7775-14 MS	SW - 3	Soluble	Solid	300.0	104671
890-7775-14 MSD	SW - 3	Soluble	Solid	300.0	104671

Lab Chronicle

Client: Earth Systems Response and Restoration
 1 roRej tSite: / alj o State Federal Com F####H

Job ID: 80- 4999342
 SDG: 6ea Co5ntyA7 M

Client Sample ID: CS - 1

Lab Sample ID: 890-7775-1

Date Collected: 03/05/25 11:00

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ otal7 L	1 rep	3- N3			3B 2 X	3 m6	2- g. g2	- N# . #3 2g:29	M7 R	EE/ MID
/ otal7 L	L nalysis	8- #2K		2	3 m6	3 m6	2- g339	- N# . #3 ##:g9	M7 R	EE/ MID
/ otal7 L	L nalysis	/ otal K/ Eu		2			2- g9#3	- N# . #3 ##:g9	LJ	EE/ MID
/ otal7 L	L nalysis	8- 23 7 M		2			2- g9#g	- N# 9#3 - N#g	LJ	EE/ MID
/ otal7 L	1 rep	8- 237 M 1 rep			2- B 3 X	2- m6	2- g. 99	- N# . #3 20:39	E6	EE/ MID
/ otal7 L	L nalysis	8- 23K 7 M		2	2 56	2 56	2- g30g	- N# 9#3 - N#g	/ f C	EE/ MID
Sol5ble	6eaj h	DI 6eaj h			3B g X	3- m6	2- g. 9-	- N# . #3 29:22	SL	EE/ MID
Sol5ble	L nalysis	N - B		2	3- m6	3- m6	2- g. 08	- N# 9#3 22:- 0	CH	EE/ MID

Client Sample ID: CS - 2

Lab Sample ID: 890-7775-2

Date Collected: 03/05/25 11:05

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ otal7 L	1 rep	3- N3			gB3 X	3 m6	2- g. g2	- N# . #3 2g:29	M7 R	EE/ MID
/ otal7 L	L nalysis	8- #2K		2	3 m6	3 m6	2- g339	- N# . #3 #N- 9	M7 R	EE/ MID
/ otal7 L	L nalysis	/ otal K/ Eu		2			2- g9#3	- N# . #3 #N- 9	LJ	EE/ MID
/ otal7 L	L nalysis	8- 23 7 M		2			2- g9#g	- N# 9#3 - NND	LJ	EE/ MID
/ otal7 L	1 rep	8- 237 M 1 rep			2- BN X	2- m6	2- g. 99	- N# . #3 20:39	E6	EE/ MID
/ otal7 L	L nalysis	8- 23K 7 M		2	2 56	2 56	2- g30g	- N# 9#3 - NND	/ f C	EE/ MID
Sol5ble	6eaj h	DI 6eaj h			gB. X	3- m6	2- g. 9-	- N# . #3 29:22	SL	EE/ MID
Sol5ble	L nalysis	N - B		2	3- m6	3- m6	2- g. 08	- N# 9#3 22:23	CH	EE/ MID

Client Sample ID: CS - 3

Lab Sample ID: 890-7775-3

Date Collected: 03/05/25 11:10

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ otal7 L	1 rep	3- N3			gB3 X	3 m6	2- g. g2	- N# . #3 2g:29	M7 R	EE/ MID
/ otal7 L	L nalysis	8- #2K		2	3 m6	3 m6	2- g339	- N# . #3 #N#8	M7 R	EE/ MID
/ otal7 L	L nalysis	/ otal K/ Eu		2			2- g9#3	- N# . #3 #N#8	LJ	EE/ MID
/ otal7 L	L nalysis	8- 23 7 M		2			2- g9#g	- N# 9#3 - g:2-	LJ	EE/ MID
/ otal7 L	1 rep	8- 237 M 1 rep			2- B 2 X	2- m6	2- g. 99	- N# . #3 20:39	E6	EE/ MID
/ otal7 L	L nalysis	8- 23K 7 M		2	2 56	2 56	2- g30g	- N# 9#3 - g:2-	/ f C	EE/ MID
Sol5ble	6eaj h	DI 6eaj h			3B - X	3- m6	2- g. 9-	- N# . #3 29:22	SL	EE/ MID
Sol5ble	L nalysis	N - B		2	3- m6	3- m6	2- g. 08	- N# 9#3 22:#2	CH	EE/ MID

Client Sample ID: CS - 4

Lab Sample ID: 890-7775-4

Date Collected: 03/05/25 11:15

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ otal7 L	1 rep	3- N3			3B N X	3 m6	2- g. g2	- N# . #3 2g:29	M7 R	EE/ MID
/ otal7 L	L nalysis	8- #2K		2	3 m6	3 m6	2- g339	- N# . #3 #Ng8	M7 R	EE/ MID
/ otal7 L	L nalysis	/ otal K/ Eu		2			2- g9#3	- N# . #3 #Ng8	LJ	EE/ MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
 1 roRej tSite: / alj o State Federal Com F####H

Job ID: 80- 499342
 SDG: 6ea Co5ntyA7 M

Client Sample ID: CS - 4

Lab Sample ID: 890-7775-4

Date Collected: 03/05/25 11:15

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ otal7 L	L nalysis	8- 23 7 M		2			2- g9#g	- N# 9#3 - g:#9	LJ	EE/ MID
/ otal7 L	1 rep	8- 237 M 1 rep			2- B g X	2- m6	2- g. 99	- N# . #3 20:39	E6	EE/ MID
/ otal7 L	L nalysis	8- 23K 7 M		2	2 56	2 56	2- g30g	- N# 9#3 - g:#9	/ f C	EE/ MID
Sol5ble	6eaj h	DI 6eaj h			3B g X	3- m6	2- g. 92	- N# . #3 29:2g	SL	EE/ MID
Sol5ble	L nalysis	N - B		2	3- m6	3- m6	2- g. 00	- N# 9#3 - 0:N0	CH	EE/ MID

Client Sample ID: CS - 5

Lab Sample ID: 890-7775-5

Date Collected: 03/05/25 11:20

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ otal7 L	1 rep	3- N3			3B g X	3 m6	2- g. g2	- N# . #3 2g:29	M7 R	EE/ MID
/ otal7 L	L nalysis	8- #2K		2	3 m6	3 m6	2- g339	- N# 9#3 - - : - 0	M7 R	EE/ MID
/ otal7 L	L nalysis	/ otal K/ Eu		2			2- g9#3	- N# 9#3 - - : - 0	LJ	EE/ MID
/ otal7 L	L nalysis	8- 23 7 M		2			2- g9#g	- N# 9#3 - g:g#	LJ	EE/ MID
/ otal7 L	1 rep	8- 237 M 1 rep			2- B - X	2- m6	2- g. 99	- N# . #3 20:39	E6	EE/ MID
/ otal7 L	L nalysis	8- 23K 7 M		2	2 56	2 56	2- g30g	- N# 9#3 - g:g#	/ f C	EE/ MID
Sol5ble	6eaj h	DI 6eaj h			gB8 X	3- m6	2- g. 92	- N# . #3 29:2g	SL	EE/ MID
Sol5ble	L nalysis	N - B		2	3- m6	3- m6	2- g. 00	- N# 9#3 - 0:39	CH	EE/ MID

Client Sample ID: CS - 6

Lab Sample ID: 890-7775-6

Date Collected: 03/05/25 11:25

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ otal7 L	1 rep	3- N3			gB0 X	3 m6	2- g. g2	- N# . #3 2g:29	M7 R	EE/ MID
/ otal7 L	L nalysis	8- #2K		2	3 m6	3 m6	2- g339	- N# 9#3 - - : #0	M7 R	EE/ MID
/ otal7 L	L nalysis	/ otal K/ Eu		2			2- g9#3	- N# 9#3 - - : #0	LJ	EE/ MID
/ otal7 L	L nalysis	8- 23 7 M		2			2- g9#g	- N# 9#3 - g:38	LJ	EE/ MID
/ otal7 L	1 rep	8- 237 M 1 rep			2- B 3 X	2- m6	2- g. 99	- N# . #3 20:39	E6	EE/ MID
/ otal7 L	L nalysis	8- 23K 7 M		2	2 56	2 56	2- g30g	- N# 9#3 - g:38	/ f C	EE/ MID
Sol5ble	6eaj h	DI 6eaj h			3B # X	3- m6	2- g. 92	- N# . #3 29:2g	SL	EE/ MID
Sol5ble	L nalysis	N - B		2	3- m6	3- m6	2- g. 00	- N# 9#3 2- : - N	CH	EE/ MID

Client Sample ID: CS - 7

Lab Sample ID: 890-7775-7

Date Collected: 03/05/25 11:30

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ otal7 L	1 rep	3- N3			3B 2 X	3 m6	2- g. g2	- N# . #3 2g:29	M7 R	EE/ MID
/ otal7 L	L nalysis	8- #2K		2	3 m6	3 m6	2- g339	- N# 9#3 - - : - 3-	M7 R	EE/ MID
/ otal7 L	L nalysis	/ otal K/ Eu		2			2- g9#3	- N# 9#3 - - : - 3-	LJ	EE/ MID
/ otal7 L	L nalysis	8- 23 7 M		2			2- g9#g	- N# 9#3 - 3:2N	LJ	EE/ MID
/ otal7 L	1 rep	8- 237 M 1 rep			2- B 2 X	2- m6	2- g. 99	- N# . #3 20:39	E6	EE/ MID
/ otal7 L	L nalysis	8- 23K 7 M		2	2 56	2 56	2- g30g	- N# 9#3 - 3:2N	/ f C	EE/ MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
1 roRej tSite: / alj o State Federal Com F####H

Job ID: 80- 4999342
SDG: 6ea Co5ntyA7 M

Client Sample ID: CS - 7

Lab Sample ID: 890-7775-7

Date Collected: 03/05/25 11:30

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Sol5ble	6eaj h	DI 6eaj h			gB . X	3- m6	2- g. 92	- N6 . d#3 29:2g	SL	EE/ MID
Sol5ble	L nalysis	N - B		2	3- m6	3- m6	2- g. 00	- N6 9d#3 2- : 0	CH	EE/ MID

Client Sample ID: CS - 8

Lab Sample ID: 890-7775-8

Date Collected: 03/05/25 11:35

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ otal7 L	1 rep	3- N3			3B 3 X	3 m6	2- g. g2	- N6 . d#3 2g:29	M7 R	EE/ MID
/ otal7 L	L nalysis	8- #2K		2	3 m6	3 m6	2- g339	- N6 9d#3 - 2:2-	M7 R	EE/ MID
/ otal7 L	L nalysis	/ otal K/ Eu		2			2- g9#3	- N6 9d#3 - 2:2-	LJ	EE/ MID
/ otal7 L	L nalysis	8- 23 7 M		2			2- g9#g	- N6 9d#3 - 3:#8	LJ	EE/ MID
/ otal7 L	1 rep	8- 237 M 1 rep			2- BN X	2- m6	2- g. 99	- N6 . d#3 20:39	E6	EE/ MID
/ otal7 L	L nalysis	8- 23K 7 M		2	2 56	2 56	2- g30g	- N6 9d#3 - 3:#8	/ f C	EE/ MID
Sol5ble	6eaj h	DI 6eaj h			3B N X	3- m6	2- g. 92	- N6 . d#3 29:2g	SL	EE/ MID
Sol5ble	L nalysis	N - B		2	3- m6	3- m6	2- g. 00	- N6 9d#3 2- :23	CH	EE/ MID

Client Sample ID: CS - 9

Lab Sample ID: 890-7775-9

Date Collected: 03/05/25 11:40

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ otal7 L	1 rep	3- N3			3B N X	3 m6	2- g. g2	- N6 . d#3 2g:29	M7 R	EE/ MID
/ otal7 L	L nalysis	8- #2K		2	3 m6	3 m6	2- g339	- N6 9d#3 - 2:N2	M7 R	EE/ MID
/ otal7 L	L nalysis	/ otal K/ Eu		2			2- g9#3	- N6 9d#3 - 2:N2	LJ	EE/ MID
/ otal7 L	L nalysis	8- 23 7 M		2			2- g9#g	- N6 9d#3 - 3:gN	LJ	EE/ MID
/ otal7 L	1 rep	8- 237 M 1 rep			2- B g X	2- m6	2- g. 99	- N6 . d#3 20:39	E6	EE/ MID
/ otal7 L	L nalysis	8- 23K 7 M		2	2 56	2 56	2- g30g	- N6 9d#3 - 3:gN	/ f C	EE/ MID
Sol5ble	6eaj h	DI 6eaj h			3B 2 X	3- m6	2- g. 92	- N6 . d#3 29:2g	SL	EE/ MID
Sol5ble	L nalysis	N - B		2	3- m6	3- m6	2- g. 00	- N6 9d#3 2- :3N	CH	EE/ MID

Client Sample ID: CS - 10

Lab Sample ID: 890-7775-10

Date Collected: 03/05/25 11:45

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ otal7 L	1 rep	3- N3			3B g X	3 m6	2- g. g2	- N6 . d#3 2g:29	M7 R	EE/ MID
/ otal7 L	L nalysis	8- #2K		2	3 m6	3 m6	2- g339	- N6 9d#3 - 2:32	M7 R	EE/ MID
/ otal7 L	L nalysis	/ otal K/ Eu		2			2- g9#3	- N6 9d#3 - 2:32	LJ	EE/ MID
/ otal7 L	L nalysis	8- 23 7 M		2			2- g9#g	- N6 9d#3 - 3:30	LJ	EE/ MID
/ otal7 L	1 rep	8- 237 M 1 rep			2- B . X	2- m6	2- g. 99	- N6 . d#3 20:39	E6	EE/ MID
/ otal7 L	L nalysis	8- 23K 7 M		2	2 56	2 56	2- g30g	- N6 9d#3 - 3:30	/ f C	EE/ MID
Sol5ble	6eaj h	DI 6eaj h			3B # X	3- m6	2- g. 92	- N6 . d#3 29:2g	SL	EE/ MID
Sol5ble	L nalysis	N - B		2	3- m6	3- m6	2- g. 00	- N6 9d#3 2- :30	CH	EE/ MID

E5roins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
 1 roRej tSite: / alj o State Federal Com F####H

Job ID: 80- 4999342
 SDG: 6ea Co5ntyA7 M

Client Sample ID: CS - 11

Lab Sample ID: 890-7775-11

Date Collected: 03/05/25 11:47

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ otal7 L	1 rep	3- N3			3B 2 X	3 m6	2- g. g2	- N6 . #3 2g:29	M7 R	EE/ MID
/ otal7 L	L nalysis	8- #2K		2	3 m6	3 m6	2- g339	- N6 9#3 - N2g	M7 R	EE/ MID
/ otal7 L	L nalysis	/ otal K/ Eu		2			2- g9#3	- N6 9#3 - N2g	LJ	EE/ MID
/ otal7 L	L nalysis	8- 23 7 M		2			2- g9#g	- N6 9#3 - . . :2N	LJ	EE/ MID
/ otal7 L	1 rep	8- 237 M 1 rep			2- B 2 X	2- m6	2- g. 99	- N6 . #3 20:39	E6	EE/ MID
/ otal7 L	L nalysis	8- 23K 7 M		2	2 56	2 56	2- g30g	- N6 9#3 - . . :2N	/ f C	EE/ MID
Sol5ble	6eaj h	DI 6eaj h			gB 8 X	3- m6	2- g. 92	- N6 . #3 29:2g	SL	EE/ MID
Sol5ble	L nalysis	N - B		2	3- m6	3- m6	2- g. 00	- N6 9#3 22: - 3	CH	EE/ MID

Client Sample ID: SW - 1

Lab Sample ID: 890-7775-12

Date Collected: 03/05/25 11:50

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ otal7 L	1 rep	3- N3			3B 3 X	3 m6	2- g. g2	- N6 . #3 2g:29	M7 R	EE/ MID
/ otal7 L	L nalysis	8- #2K		2	3 m6	3 m6	2- g339	- N6 9#3 - NN3	M7 R	EE/ MID
/ otal7 L	L nalysis	/ otal K/ Eu		2			2- g9#3	- N6 9#3 - NN3	LJ	EE/ MID
/ otal7 L	L nalysis	8- 23 7 M		2			2- g9#g	- N6 9#3 - . . :#0	LJ	EE/ MID
/ otal7 L	1 rep	8- 237 M 1 rep			2- B g X	2- m6	2- g. 99	- N6 . #3 20:39	E6	EE/ MID
/ otal7 L	L nalysis	8- 23K 7 M		2	2 56	2 56	2- g30g	- N6 9#3 - . . :#0	/ f C	EE/ MID
Sol5ble	6eaj h	DI 6eaj h			gB 3 X	3- m6	2- g. 92	- N6 . #3 29:2g	SL	EE/ MID
Sol5ble	L nalysis	N - B		2	3- m6	3- m6	2- g. 00	- N6 9#3 22:2#	CH	EE/ MID

Client Sample ID: SW - 2

Lab Sample ID: 890-7775-13

Date Collected: 03/05/25 11:55

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ otal7 L	1 rep	3- N3			3B NX	3 m6	2- g. g2	- N6 . #3 2g:29	M7 R	EE/ MID
/ otal7 L	L nalysis	8- #2K		2	3 m6	3 m6	2- g339	- N6 9#3 - N33	M7 R	EE/ MID
/ otal7 L	L nalysis	/ otal K/ Eu		2			2- g9#3	- N6 9#3 - N33	LJ	EE/ MID
/ otal7 L	L nalysis	8- 23 7 M		2			2- g9#g	- N6 9#3 22:2N	LJ	EE/ MID
/ otal7 L	1 rep	8- 237 M 1 rep			2- B 0 X	2- m6	2- g. 8-	- N6 9#3 2- :39	E6	EE/ MID
/ otal7 L	L nalysis	8- 23K 7 M		2	2 56	2 56	2- g. 2#	- N6 9#3 22:2N	/ f C	EE/ MID
Sol5ble	6eaj h	DI 6eaj h			gB 3 X	3- m6	2- g. 92	- N6 . #3 29:2g	SL	EE/ MID
Sol5ble	L nalysis	N - B		2	3- m6	3- m6	2- g. 00	- N6 9#3 22:28	CH	EE/ MID

Client Sample ID: SW - 3

Lab Sample ID: 890-7775-14

Date Collected: 03/05/25 12:00

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ otal7 L	1 rep	3- N3			3B 2 X	3 m6	2- g. g2	- N6 . #3 2g:29	M7 R	EE/ MID
/ otal7 L	L nalysis	8- #2K		2	3 m6	3 m6	2- g339	- N6 9#3 - g:2.	M7 R	EE/ MID
/ otal7 L	L nalysis	/ otal K/ Eu		2			2- g9#3	- N6 9#3 - g:2.	LJ	EE/ MID

E5roins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
1 roRej tSite: / alj o State Federal Com F###H

Job ID: 80- 4999342
SDG: 6ea Co5ntyA7 M

Client Sample ID: SW - 3

Lab Sample ID: 890-7775-14

Date Collected: 03/05/25 12:00

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ otalC L	L nalysis	8- 23 7 M		2			2- g9#g	- Nc 9d#3 22:#0	LJ	EE/ MID
/ otalC L	1 rep	8- 237 M 1 rep			0B3 X	2- m6	2- g. 8-	- Nc 9d#3 2- :39	E6	EE/ MID
/ otalC L	L nalysis	8- 23K 7 M		2	2 56	2 56	2- g. 2#	- Nc 9d#3 22:#0	/ f C	EE/ MID
Sol5ble	6eaj h	DI 6eaj h			3B- X	3- m6	2- g. 92	- Nc . d#3 29:2g	SL	EE/ MID
Sol5ble	L nalysis	N- B		2	3- m6	3- m6	2- g. 00	- Nc 9d#3 22:#g	CH	EE/ MID

Client Sample ID: SW - 4

Lab Sample ID: 890-7775-15

Date Collected: 03/05/25 12:05

Matrix: Solid

Date Received: 03/06/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
/ otalC L	1 rep	3- N3			gB8 X	3 m6	2- g. g2	- Nc . d#3 2g:29	M7 R	EE/ MID
/ otalC L	L nalysis	8- #2K		2	3 m6	3 m6	2- g339	- Nc 9d#3 - g:N	M7 R	EE/ MID
/ otalC L	L nalysis	/ otal K/ Eu		2			2- g9#3	- Nc 9d#3 - g:N	LJ	EE/ MID
/ otalC L	L nalysis	8- 23 7 M		2			2- g9#g	- Nc 9d#3 - 2:32	LJ	EE/ MID
/ otalC L	1 rep	8- 237 M 1 rep			2- B- X	2- m6	2- g. 98	- Nc . d#3 20:30	E6	EE/ MID
/ otalC L	L nalysis	8- 23K 7 M		2	2 56	2 56	2- g30.	- Nc 9d#3 - 2:32	/ f C	EE/ MID
Sol5ble	6eaj h	DI 6eaj h			gB0 X	3- m6	2- g. 92	- Nc . d#3 29:2g	SL	EE/ MID
Sol5ble	L nalysis	N- B		2	3- m6	3- m6	2- g. 00	- Nc 9d#3 22:g#	CH	EE/ MID

Laboratory References:

EE/ MID , E5ro+ns MidlandA2#22 WBTFlorida LveAMidlandA/ u 909- 2A/ E6 (gN#)9- g43gg-

E5ro+ns Carlsbad

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
1 roRej tSite: / alj o State Tederal Com F###H

Job ID: 80- 4999342
SDG: 6ea CoUntyw, f

Laboratory: Eurofins Midland

v nless otheru ise notedwall analytes .or this laboratory u ere j oxered Under eaj h aj j reditationg erti.ij ation belou N

Authority	Program	Identification Number	Expiration Date
/ eLas	, E6A1	/ 2- 79- 77- -	- 54g- 4#3
/ he .ollou inManalytes are inj lUded in this reportwbU the laboratory is not j erti.ied by the MxerninMaUthorityN/ his list may inj lUde analytes .or u hij h the aMenj y does not o..er j erti.ij ationN			
Analysis f ethod	1 rep f ethod	f atril	Analyte
8- 23 , f		Solid	/ otal / 1 H
/ otal B/ EX		Solid	/ otal B/ EX

Method Summary

1 0 en t Ear hSyni s y mi yRoeyi Eep mi ynoæErløe
/ æT Fr#lri : HECø h rEri W pi æC l os BWVO

Job ID: 80- 4999342
hDd : G E 1 o6erSPj c

Method	Method Description	Protocol	Laboratory
8- V2)	MbCtC AaL EelF 1 os Rø6epy Xi 15	hg 8u(	t t Hc ID
HbrEQ Ht .	HbrEQ Ht . 1 EEC6Erløe	HNGhA/	t t Hc ID
8- 23 j c	Dli yi QnEeLi AaL EelFy XdmA5Xi 15	hg 8u(	t t Hc ID
8- 23) j c	Dli yi QnEeLi AaL EelFy XdmA5Xi 15	hg 8u(	t t Hc ID
, - - *	NeløeyPloe 1 r æs EnoLæER S	t / N	t t Hc ID
3- , 3	1 Qyi p hSyni s / 6dLi Eep HæER	hg 8u(	t t Hc ID
8- 23j c / a R	c IFæi znæFrløe	hg 8u(	t t Hc ID
DI G EFr	Di loel=i p g Eri aG EFr leL / æFi p6a	NhHc	t t Hc ID

Protocol References:

NhHc UNhHc leri æErløeEC
t / NUv h t e"læes i erEC æri Frloe NLi eFS
hg 8u(UfH ync i r rOPY Wbat " ECErleL hoQ g Eyri P/ r SyIFEQ# r i s IFEQc i r rOPYfPHr lap t plrløePj o"i s bi a208(Nep lry v RpEri yx
HNGhA/ UH yrNs i dFE GEboæErodi yPhrEepEap ARi æErløL / æFi p6a

Laboratory References:

t t Hc ID Ut 6æ7ey c lpEepP2V22 g xVWødpEN"i Pc lpEepPH. 909- 2PHt GXi, V39- u43uu-

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: Talco State Federal Com #222H

Job ID: 890-7775-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7775-1	CS - 1	Solid	03/05/25 11:00	03/06/25 09:00	1
890-7775-2	CS - 2	Solid	03/05/25 11:05	03/06/25 09:00	1
890-7775-3	CS - 3	Solid	03/05/25 11:10	03/06/25 09:00	1
890-7775-4	CS - 4	Solid	03/05/25 11:15	03/06/25 09:00	1
890-7775-5	CS - 5	Solid	03/05/25 11:20	03/06/25 09:00	2
890-7775-6	CS - 6	Solid	03/05/25 11:25	03/06/25 09:00	2
890-7775-7	CS - 7	Solid	03/05/25 11:30	03/06/25 09:00	1
890-7775-8	CS - 8	Solid	03/05/25 11:35	03/06/25 09:00	1
890-7775-9	CS - 9	Solid	03/05/25 11:40	03/06/25 09:00	1
890-7775-10	CS - 10	Solid	03/05/25 11:45	03/06/25 09:00	2
890-7775-11	CS - 11	Solid	03/05/25 11:47	03/06/25 09:00	2
890-7775-12	SW - 1	Solid	03/05/25 11:50	03/06/25 09:00	0-2
890-7775-13	SW - 2	Solid	03/05/25 11:55	03/06/25 09:00	0-2
890-7775-14	SW - 3	Solid	03/05/25 12:00	03/06/25 09:00	0-2
890-7775-15	SW - 4	Solid	03/05/25 12:05	03/06/25 09:00	0-2



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 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:		Talco State Federal Com #222H		Turn Around		ANALYSIS REQUEST										Preservative Codes						
Project Number:		2296		☐ Routine ☒ Rush		Pres. Code												None: NO DI Water: H ₂ O				
Project Location:		Lea County, NM		Due Date:		24 HR Rush 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/WO #:																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:		T1M007												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:		-7.2												Zn Acetate+NaOH: Zn				
Total Containers:				Corrected Temperature:		-7.0												NaOH+Ascorbic Acid: SACP				
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH-NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush											Sample Comments
CS-1	S	3.5.2025	11:00	1	Comp	1	X	X	X		X											Incident Number
CS-2	S	3.5.2025	11:05	1	Comp	1	X	X	X		X											nAPP2315048206
CS-3	S	3.5.2025	11:10	1	Comp	1	X	X	X		X											
CS-4	S	3.5.2025	11:15	1	Comp	1	X	X	X		X											
CS-5	S	3.5.2025	11:20	2	Comp	1	X	X	X		X											
CS-6	S	3.5.2025	11:25	2	Comp	1	X	X	X		X											
CS-7	S	3.5.2025	11:30	1	Comp	1	X	X	X		X											
CS-8	S	3.5.2025	11:35	1	Comp	1	X	X	X		X											
CS-9	S	3.5.2025	11:40	1	Comp	1	X	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
<i>Gilbert Moreno</i>	<i>Brian</i>	3/6 9a			

Revised Date: 08/25/2020 Rev. 2020.2

3/7/2025

Page 40 of 44

Released to Imaging: 6/27/2025 1:26:28 PM



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:		Turn Around		ANALYSIS REQUEST												Preservative Codes						
Project Number:	2296	☐ Routine	☒ Rush	Pres. Code													None: NO	DI Water: H ₂ O				
Project Location:	Lea County, NM	Due Date:	24 HR Rush 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			
POWOW #:																		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:	TANCO														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:	7.2														Zn Acetate+NaOH: Zn					
Total Containers:		Corrected Temperature:	7.0														NaOH+Ascorbic Acid: SAPC					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH-NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush											Sample Comments
CS-10	S	3.5.2025	11:45	2	Comp	1	X	X	X		X											Incident Number
CS-11	S	3.5.2025	11:47	2	Comp	1	X	X	X		X											nAPP2315048206
SW-1	S	3.5.2025	11:50	0-2	Comp	1	X	X	X		X											
SW-2	S	3.5.2025	11:55	0-2	Comp	1	X	X	X		X											
SW-3	S	3.5.2025	12:00	0-2	Comp	1	X	X	X		X											
SW-4	S	3.5.2025	12:05	0-2	Comp	1	X	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
		3/6/25 9a			

Revised Date: 08/25/2020 Rev 2020.2

Eurofins Carlsbad

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)				Sampler: N/A		Lab PM: Teel, Brianna		Carrier Tracking No(s): N/A		COC No: 890-4695.1									
Client Contact: Shipping/Receiving				Phone: N/A		E-Mail: Brianna.Teel@et.eurofinsus.com		State of Origin: New Mexico		Page: Page 1 of 2									
Company: Eurofins Environment Testing South Centr						Accreditations Required (See note): NELAP - Texas				Job #: 890-7775-1									
Address: 1211 W. Florida Ave,				Due Date Requested: 3/7/2025		Analysis Requested						Preservation Codes:							
City: Midland				TAT Requested (days): N/A															
State, Zip: TX, 79701				PO #: N/A		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)		8015MOD_NM/8015NM_S_Prep TPH 8015		8015MOD_Calc/ 8015 Calc		300_ORGFM_280/DI_LEACH Chloride		8021B/8035FP_Calc (MOD) BTEX		Total BTEX_GCV/ (MOD) Total BTEX		Total Number of containers	
Phone: 432-704-5440(Tel)				WO #: N/A															
Email: N/A				Project #: 88002337															
Project Name: TALCO STATE FEDERAL COM # 222 H				SSOW#: N/A															
Site: N/A																			
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=biological, A=air)		Preservation Code:		Special Instructions/Note:					
CS - 1 (890-7775-1)				3/5/25		11:00 Mountain		G		Solid		X X X X X		1					
CS - 2 (890-7775-2)				3/5/25		11:05 Mountain		G		Solid		X X X X X		1					
CS - 3 (890-7775-3)				3/5/25		11:10 Mountain		G		Solid		X X X X X		1					
CS - 4 (890-7775-4)				3/5/25		11:15 Mountain		G		Solid		X X X X X		1					
CS - 5 (890-7775-5)				3/5/25		11:20 Mountain		G		Solid		X X X X X		1					
CS - 6 (890-7775-6)				3/5/25		11:25 Mountain		G		Solid		X X X X X		1					
CS - 7 (890-7775-7)				3/5/25		11:30 Mountain		G		Solid		X X X X X		1					
CS - 8 (890-7775-8)				3/5/25		11:35 Mountain		G		Solid		X X X X X		1					
CS - 9 (890-7775-9)				3/5/25		11:40 Mountain		G		Solid		X X X X X		1					

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed				☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2			
Special Instructions/QC Requirements:							
Empty Not Relinquished by:				Date:			
Relinquished by: <i>[Signature]</i>				Date/Time: 3/6/16 3:00			
Relinquished by:				Date/Time:			
Relinquished by:				Date/Time:			
Custody Seals Intact: ☐ Yes ☐ No				Custody Seal No.:			
Cooler Temperature(s) °C and Other Remarks:							

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7775-1

SDG Number: Lea County, NM

Login Number: 7775

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7775-1

SDG Number: Lea County, NM

Login Number: 7775

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 03/06/25 08:45 PM

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

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QUESTIONS

Action 454173

QUESTIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 454173
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2315048206
Incident Name	NAPP2315048206 TALCO FEDERAL #222H @ 30-025-48612
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-48612] TALCO STATE FEDERAL COM #222H

Location of Release Source*Please answer all the questions in this group.*

Site Name	TALCO FEDERAL #222H
Date Release Discovered	05/27/2023
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: Corrosion Flow Line - Production Produced Water Released: 12 BBL Recovered: 0 BBL Lost: 12 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 454173

QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 454173
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	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: Mason Jones Title: c-Environmental Specialist Email: mjones@civiresources.com Date: 04/22/2025
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QUESTIONS, Page 3

Action 454173

QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 454173
	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 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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)	2750
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	917
GRO+DRO (EPA SW-846 Method 8015M)	917
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	03/04/2025
On what date will (or did) the final sampling or liner inspection occur	03/05/2025
On what date will (or was) the remediation complete(d)	03/17/2025
What is the estimated surface area (in square feet) that will be reclaimed	2200
What is the estimated volume (in cubic yards) that will be reclaimed	200
What is the estimated surface area (in square feet) that will be remediated	200
What is the estimated volume (in cubic yards) that will be remediated	200
<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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Action 454173

QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 454173
	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:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	NORTH RANCH SURFACE WASTE MANAGEMENT FACILITY [fBAJ2129451934]
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: Mason Jones Title: c-Environmental Specialist Email: mjones@civiresources.com Date: 04/22/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 454173

QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 454173
	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 454173

QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID:
	332195
	Action Number:
	454173
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	436651
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/05/2025
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	3000

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2200
What was the total volume (cubic yards) remediated	200
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	2200
What was the total volume (in cubic yards) reclaimed	200
Summarize any additional remediation activities not included by answers (above)	The site was remediated according to Site Closure Criteria and has been backfilled with clean, locally sourced material.
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Mason Jones Title: c-Environmental Specialist Email: mjones@civiresources.com Date: 04/22/2025

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Action 454173

QUESTIONS (continued)

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 454173
	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 454173

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 454173
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	6/27/2025