



March 17, 2025

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

RE: **Maverick Bass B - 4 in Steel Line Lateral - Closure Request Report**
Incident Number: nAPP2500736173
GPS: 32.815981°, -103.754588°
Lea County, New Mexico
ESRR Project No. 2780

To Whom It May Concern:

Earth Systems Response & Restoration (ESRR), on behalf of Kinetik Midstream (Kinetik), presents the following Closure Request Report (CRR) detailing excavation activities and subsequent soil sampling events associated with an inadvertent release of crude oil at the Maverick Bass B - 4 in Steel Line Lateral (Site). Based on completed remedial actions and laboratory analytical results from recent soil sampling events, Kinetik is requesting No Further Action (NFA) at the Site.

Site Location & Incident Description

The Site is located in Unit N, Section 22, Township 17 South, Range 32 East, in Lea County, New Mexico (32.815981°, -103.754588°) 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 January 7, 2025, a corroded pipeline ruptured, causing the release of approximately 9 barrels (bbl) of crude oil onto a Kinetik right-of-way (ROW) and adjacent native soils. Due to the absorption of fluids by the sandy native soils, no fluids were recovered. Initial excavation activities were immediately conducted directly around the pipeline, removing the top 6 inches of saturated soils. ESRR conducted initial site assessment activities and mapped the observed footprint on January 7, 2025, hereafter referred to as the Area of Concern (AOC) (**Figure 2**). Kinetik gave notice to the New Mexico Oil Conservation Division (NMOCD) on January 7, 2025, by Notification of Release (NOR) and a Corrective Action Form C-141 (Form C-141) and was subsequently assigned Incident Number nAPP2500736173.

It should be noted, upon submittal of the NOR by Kinetik, the year 2024 was mistakenly selected. The correct date of discovery is January 7, 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:

- Greater than 5 miles of any continuously flowing watercourse or any other significant watercourse;
- Between 1,000 feet and ½ miles of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- Between 1 and 5 miles of any occupied permanent residence, school, hospital, institution or church;

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- Between ½ and 1 mile of any spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Between ½ and 1 mile of any other freshwater well or spring;
- Between 1 and 5 miles of any incorporated municipal boundary or a defined municipal fresh water well field covered under a municipal ordinance;
- Between 1,000 feet and ½ mile of any wetland;
- Greater than 5 miles of any subsurface mine;
- Greater than 5 miles of any unstable area (i.e. high karst potential); and
- Between 1 and 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 Record** is attached.

Based on the results from the desktop review, no depth to water wells were found within ½ mile. 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

On January 7, 2024, ESRR conducted delineation activities to assess the presence or absence of residual soil impacts associated with the AOC. Nine delineation boreholes (HA-1 through HA-9) were advanced via hand auger within and surrounding the AOC. Delineation activities were driven by field screening soil for chloride utilizing QuanTab® test strips. A minimum of three soil samples were collected from each delineation borehole within the AOC, representing the highest observed field screening concentrations and the greatest depth. A minimum of one soil sample was collected in each delineation borehole surrounding the AOC in all cardinal directions. Delineation soil samples were placed directly into pre-cleaned jars, packed with minimal void space, labeled, and placed on ice. The delineation soil samples were transported under strict chain-of-custody procedures, to Eurofins in Carlsbad, New Mexico, for analysis of the COCs. **Photographic Documentation** of all activities are attached.

Laboratory analytical results for soil samples (HA-1, HA-6 through HA-9) 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-2 through HA-5), collected within the AOC, indicated either TPH-GRO+TPH-DRO/TPH, Chloride, Benzene, and/or Total BTEX were above the Site Closure Criteria and/or the reclamation standard up to 4-feet bgs. Elevated TPH-GRO+TPH-DRO/TPH concentrations were characterized by concentrations ranging from 102 to 15,800 mg/kg, specifically for TPH-GRO and TPH-DRO. Elevated Chloride concentrations were characterized by concentrations ranging from 619 to 9,610 mg/kg. Elevated Benzene concentrations were characterized by concentrations ranging from 27.8 to 45.4 mg/kg. Elevated Total BTEX concentrations were characterized by concentrations ranging from 666 to 1,130 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**.

Maverick Bass B - 4 in Steel Line Lateral - Closure Request Report
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Remediation Activities

During February 2025, excavation activities of identified impacts were performed via mechanical equipment based on laboratory analytical results associated with delineation soil sampling activities and visual observation. The excavation was vertically advanced to depths ranging from 1.5 to 6-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-13) 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 for confirmation soil samples (CS-1 through CS-3, CS-9, CS-12, CS-13), indicated TPH-GRO+TPH-DRO/TPH was above the Site Closure Criteria and/or the reclamation standard. Elevated TPH-GRO+TPH-DRO/TPH concentrations were characterized by concentrations ranging from 139 to 511 mg/kg, specifically for TPH-GRO and TPH-DRO at 1.5-feet and 6-feet bgs.

Additional excavation in the proximities to confirmation soil samples (CS-1 through CS-3, CS-9, CS-12, CS-13) were vertically advanced to depths ranging from 3 to 8-feet bgs. Following the removal of additional soil, ESRR collected, handled, transported, and analyzed the final confirmation soil samples 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 400 cubic yards (CY) of impacted soil was removed from the Site and transported to Lea Land in Hobbs, New Mexico under Kinetik 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 for all final confirmation soil samples, Kinetik believes that residual soil impacts associated with the inadvertent release have been excavated and removed from the Site in accordance with Site Closure Criteria. Kinetik 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 Kinetik respectfully requests Closure of this CRR associated with Incident Number nAPP2500736173.

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

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Sincerely,
EARTH SYSTEMS RESPONSE & RESTORATION

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

Gilbert Moreno
Carlsbad Operations Manager-Project Geologist

cc: Sebastian Orozco, Kinetik Midstream
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

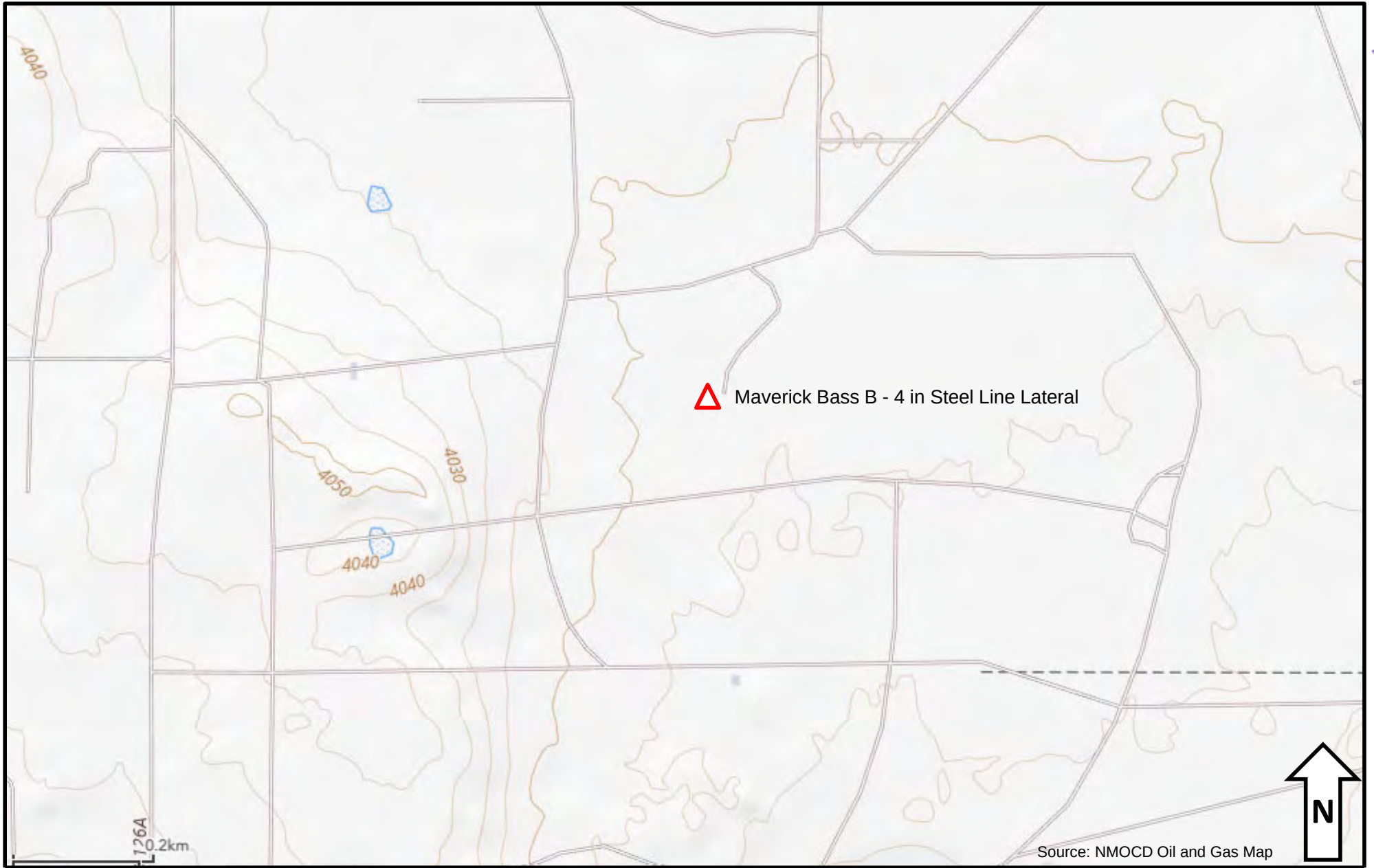
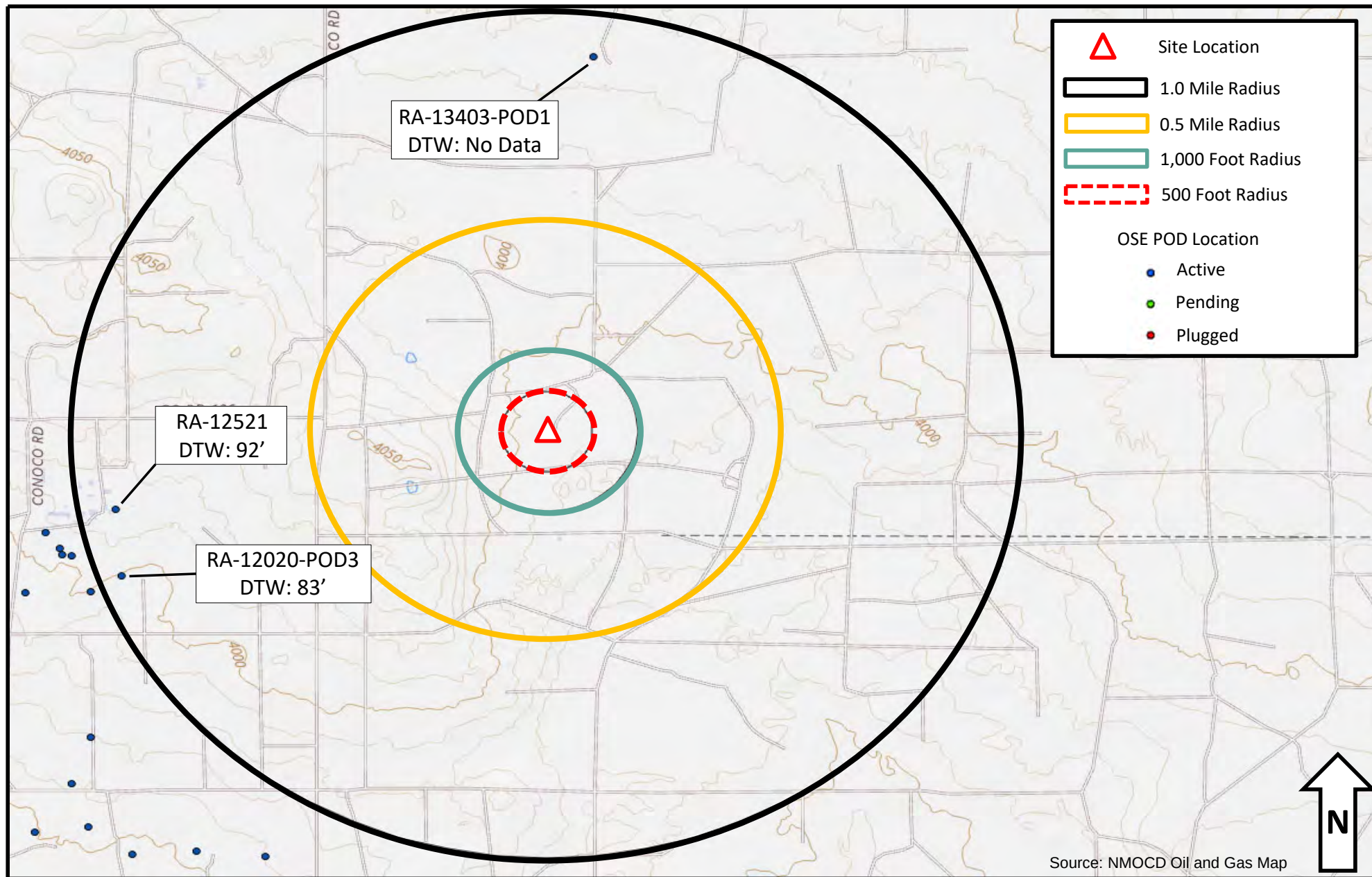


Figure 1 – Site Map

Kinetik Midstream – Maverick Bass B - 4 in Steel Line Lateral
GPS: 32.815981°,-103.754588°
Lea County, New Mexico

**Figure 1A – Ground Water**

Kinetik Midstream – Maverick Bass B - 4 in Steel Line Lateral
GPS: 32.815981°,-103.754588°
Lea County, New Mexico

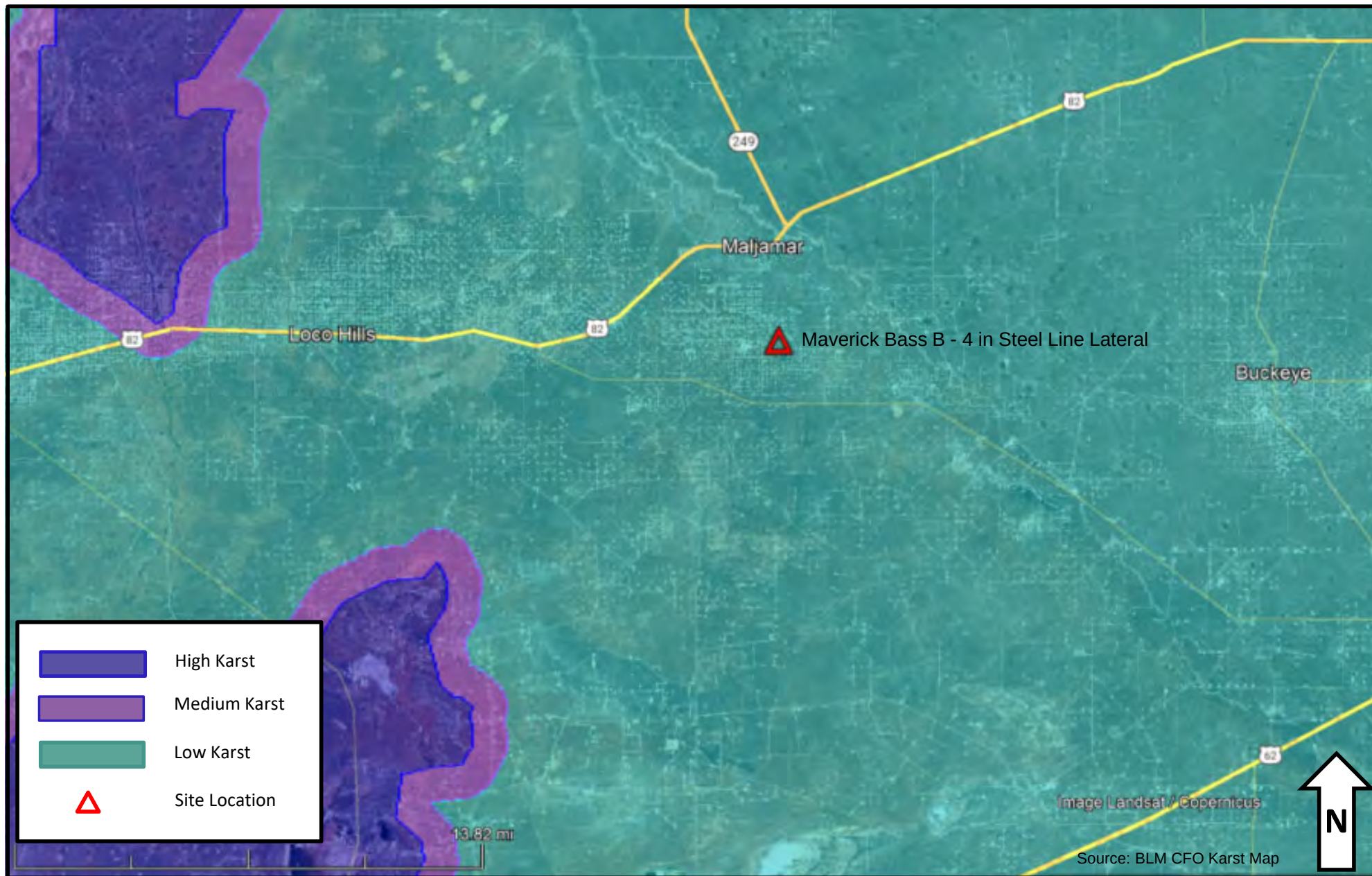


Figure 1B – Karst Potential

Kinetik Midstream – Maverick Bass B - 4 in Steel Line Lateral
GPS: 32.815981°,-103.754588°
Lea County, New Mexico

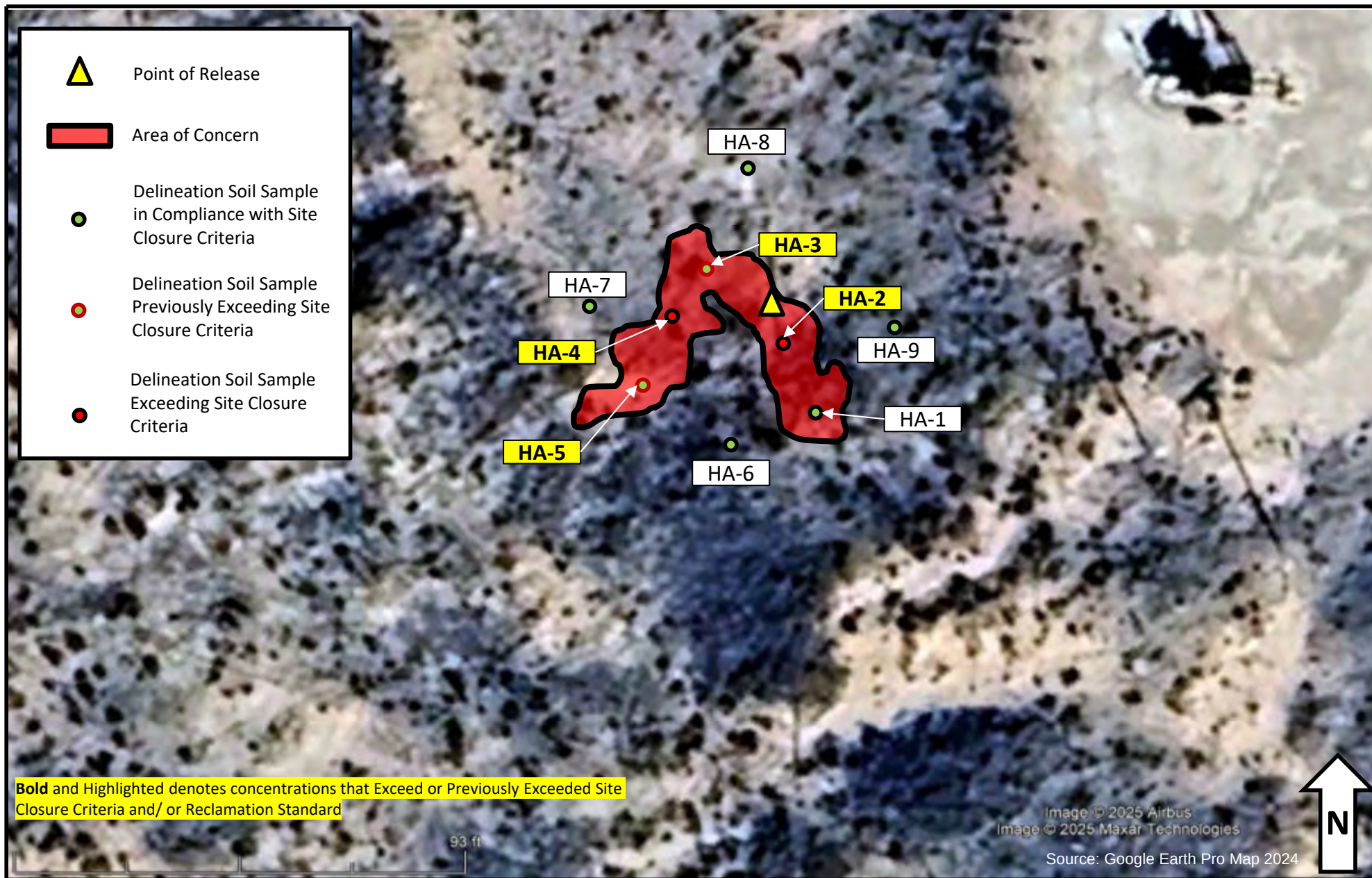


Figure 2 – Delineation Soil Sample Locations

Kinetik Midstream – Maverick Bass B - 4 in Steel Line Lateral
GPS: 32.815981°,-103.754588°
Lea County, New Mexico

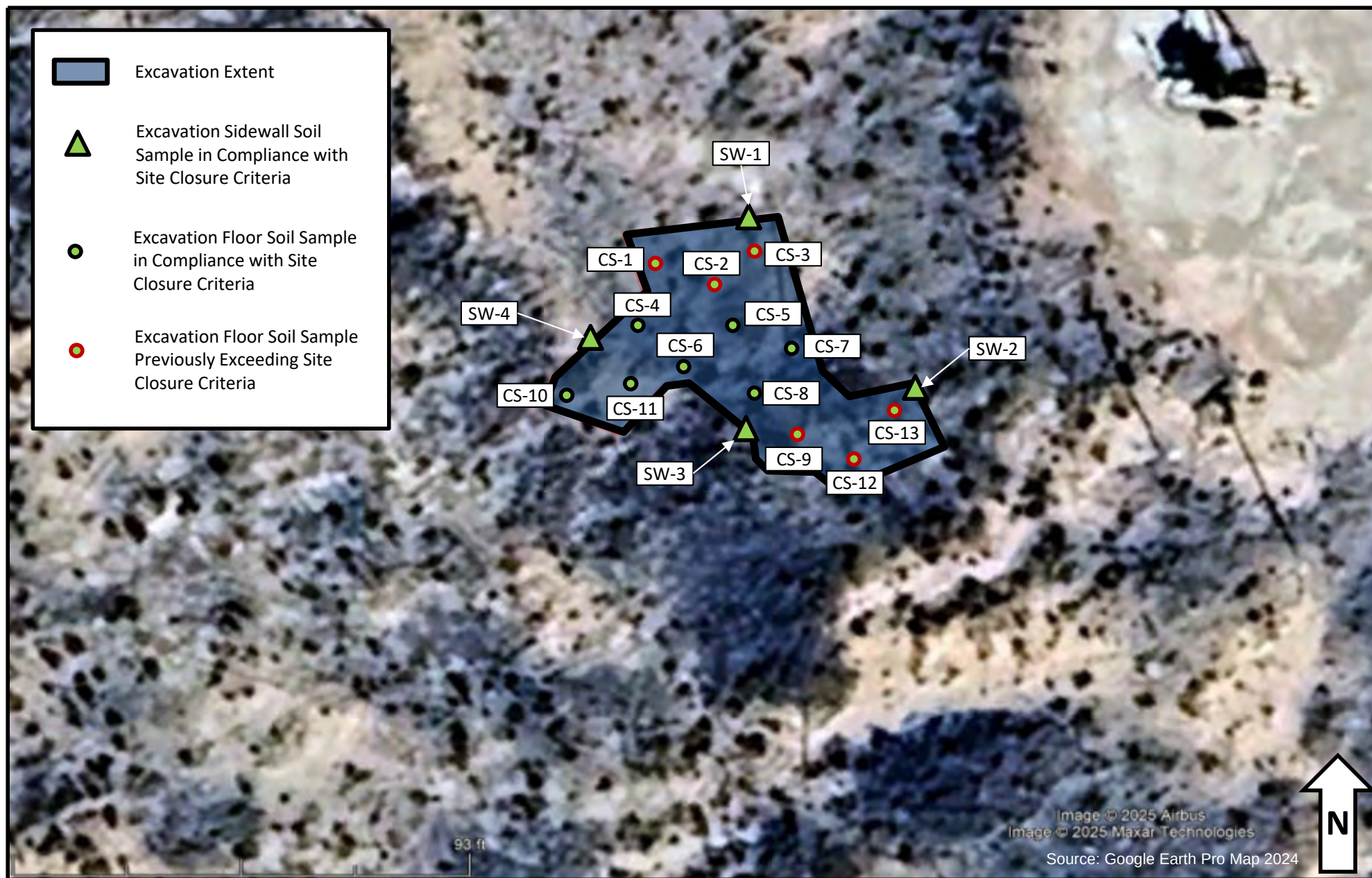
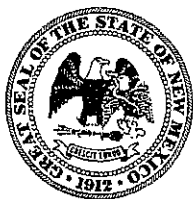


Figure 3 – Excavation Soil Sample Locations

Kinetik Midstream – Maverick Bass B - 4 in Steel Line Lateral
GPS: 32.815981°, -103.754588°
Lea County, New Mexico



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) MW-23 POD3				OSE FILE NUMBER(S) RA 12020			
	WELL OWNER NAME(S) Phillips 66 Company				PHONE (OPTIONAL) 918-977-4094			
	WELL OWNER MAILING ADDRESS 420 S Keeler (1708-02 Phillips Bldg)				CITY Bartlesville		STATE OK	ZIP 74004
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 48	SECONDS 40.09 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
	LONGITUDE 103	46	11.90 W	* DATUM REQUIRED: WGS 84				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Maljamar Gas Plant								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1456		NAME OF LICENSED DRILLER John W. White			NAME OF WELL DRILLING COMPANY White Drilling Company, Inc.		
	DRILLING STARTED 7/13/2015	DRILLING ENDED 7/15/2015	DEPTH OF COMPLETED WELL (FT) 112.0		BORE HOLE DEPTH (FT) 112.0	DEPTH WATER FIRST ENCOUNTERED (FT) 83.0		
	COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 84.35		
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES -- SPECIFY:							
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER -- SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0.0	73.0	6 1/8	Sch. 40 PVC Riser	Threads	2.0	1/4"	
	73.0	108.0	6 1/8	Sch. 40 PVC Screen	Threads	2.0	1/4"	.020
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	112.0	70.0	6 1/8	8/16 Sand	16 Sacks	Hand Mix		
	70.0	10.0	6 1/8	Bentonite Pellets	20 Sacks	Hand Mix		
	10.0	0.0	6 1/8	Cement	1.63	Hand Mix		

FOR OSE INTERNAL USE

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

FILE NUMBER **RA-12020**

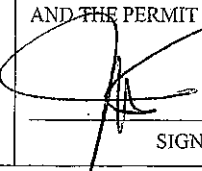
POD NUMBER **3**

TRN NUMBER **534328**

LOCATION

175.32E.28.212

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				
	0.0	4.0	4.0	Brown sand	☐ Y ☒ N	
	4.0	6.0	2.0	Reddish brown clayey sand/sandy clay	☐ Y ☒ N	
	6.0	11.0	5.0	Brown sandstone	☐ Y ☒ N	
	11.0	15.0	4.0	Reddish brown sandstone/sand	☐ Y ☒ N	
	15.0	32.0	17.0	Reddish brown sand	☐ Y ☒ N	
	32.0	40.0	8.0	Reddish brown sandy shale	☐ Y ☒ N	
	40.0	48.0	8.0	Light brown sand/sandstone	☐ Y ☒ N	
	48.0	54.0	6.0	"Firm" brown sandstone	☐ Y ☒ N	
	54.0	56.0	2.0	Reddish brown sandstone	☐ Y ☒ N	
	56.0	58.0	2.0	Green sandy shale	☐ Y ☒ N	
	58.0	70.0	12.0	Layers of reddish, brown and green sandstone	☐ Y ☒ N	
	70.0	96.0	26.0	Yellowish green sandstone	☒ Y ☐ N	
	96.0	96.5	0.5	Light brown sandstone "firm"	☒ Y ☐ N	
	96.5	101.0	4.5	Gray silty shale	☒ Y ☐ N	
	101.0	104.0	3.0	Light brown w/gray sandstone mix	☐ Y ☐ N	
	104.0	112.0	8.0	Yellow brown sandstone	☐ Y ☐ N	
					☐ Y ☐ N	
					☐ Y ☐ N	
					☐ Y ☐ N	
					☐ Y ☐ N	
					☐ Y ☐ N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: ☐ PUMP					TOTAL ESTIMATED	
☐ AIR LIFT ☐ BAILER ☐ OTHER - SPECIFY:					WELL YIELD (gpm):	
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:					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: William B. Atkins					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:  SIGNATURE OF DRILLER / PRINT SIGNEE NAME <u>John White</u> DATE <u>7-24-15</u>					

FOR OSE INTERNAL USE

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

FILE NUMBER

POD NUMBER

TRN NUMBER

LOCATION

PAGE 2 OF 2



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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STATE ENGINEER'S OFFICE
SANTA FE, NEW MEXICO

2017 AUG 22 PM 2:55

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) MW-24 POD1		WELL TAG ID NO.		OSE FILE NO(S). RA-12521			
	WELL OWNER NAME(S) Phillips 66				PHONE (OPTIONAL) 918-914-3846			
	WELL OWNER MAILING ADDRESS 420 S Keeler Ave. (1708-01 Phillips Building)				CITY Bartlesville	STATE OK	ZIP 74003	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 48	SECONDS 48.32	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LATITUDE				* DATUM REQUIRED: WGS 84			
	LONGITUDE	103	46	13.21	W			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Maljamar Gas Plant								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1456		NAME OF LICENSED DRILLER John W. White			NAME OF WELL DRILLING COMPANY White Drilling Company, Inc.		
	DRILLING STARTED 07/21/2017	DRILLING ENDED 07/26/2017	DEPTH OF COMPLETED WELL (FT) 105.0	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT) 92.0			
	COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 92.0			
	DRILLING FLUID: ☒ AIR ☐ MUD		ADDITIVES - SPECIFY:					
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0.0	75.0	7 7/8	Sch. 40 PVC Riser	Threads	2.0	1/4"	
	75.0	105.0	7 7/8	Sch. 40 PVC Screen	Threads	2.0	1/4"	2020
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
	0.0	65.0	7 7/8	Portland Grout	8 Bags	Pump Mix w/Tremmie Pipe		
	65.0	72.0	7 7/8	Bentonite Chips	2 Bags	Hand Mix		
	72.0	105.0	7 7/8	8/16 Sand	13 Bags	Hand Mix		

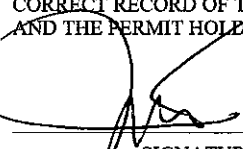
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. RA-12521	POD NO. 1	TRN NO. 609310
LOCATION 175.32E-21.433	WELL TAG ID NO.	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				
	0.0	1.0	1	Base Caliche	Y ✓ N	
	1.0	7.0	6	Brown Sand	Y ✓ N	
	7.0	10.0	3	Reddish brown clayey sand	Y ✓ N	
	10.0	18.0	8.0	Light brown sand/sandstone	Y ✓ N	
	18.0	34.0	16.0	Reddish brown sand/sandstone	Y ✓ N	
	34.0	40.0	6.0	Dark reddish brown silty shale HC odor @ 39'	Y ✓ N	
	40.0	42.0	2.0	Reddish brown and brown sandstone	Y ✓ N	
	42.0	49.0	7.0	Reddish brown silty shale	Y ✓ N	
	49.0	53.0	4.0	Greenish gray sand/sandstone	Y ✓ N	
	53.0	70.0	17.0	Purple brown silty sandstone	Y ✓ N	
	70.0	85.0	15.0	Light brown sand/sandstone	Y ✓ N	
	85.0	101.0	16.0	Green gray silty sandstone Damp @ 86'	✓ Y N	
	101.0	105.0	4.0	Gray silty sandstone/shale	✓ 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: Hydrocarbon present in soil	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: William B. Atkins		

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:	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	8/8/2017 DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Maverick Bass B - 4 in Steel Line Lateral - Closure Request Report
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PHOTO 1: Southeastern view after initial excavation and repairs made by Kinetik. 01/07/2025



PHOTO 2: Northwestern view during delineation activities. 01/07/2025

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PHOTO 3: Northeastern view during delineation activities. 01/07/2025



PHOTO 4: Southwestern view of excavation extent. 02/11/2025

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PHOTO 5: Southeastern view of excavation extent. 02/11/2025

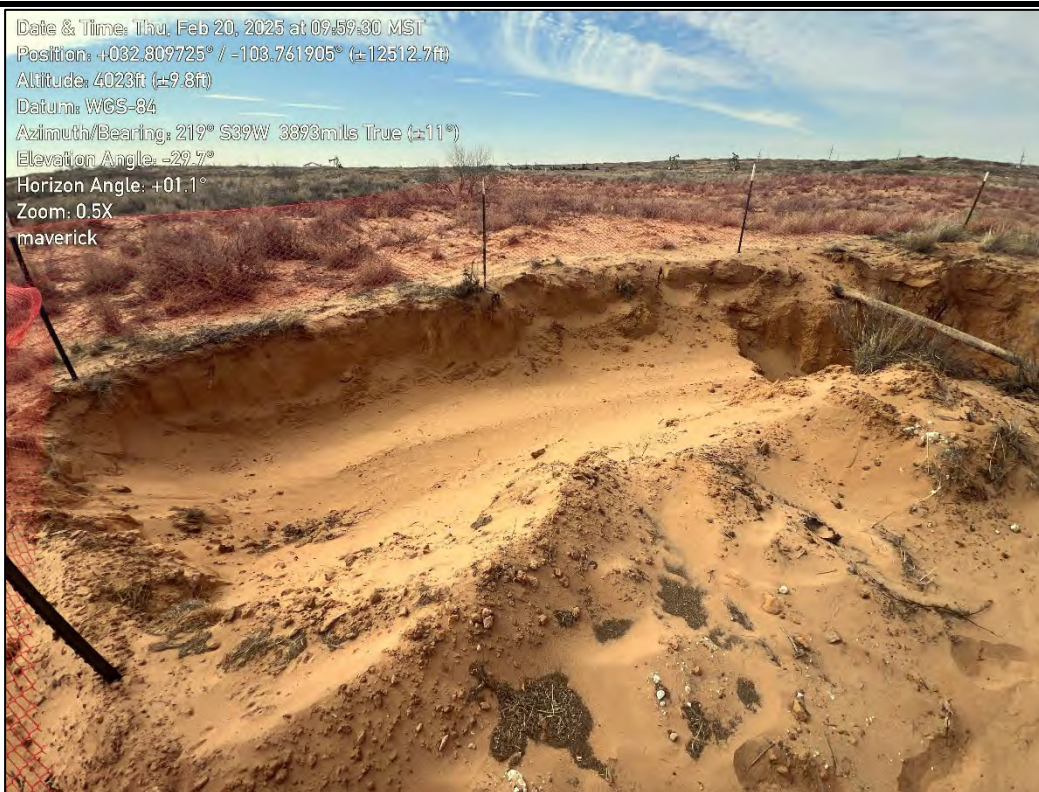


PHOTO 6: Southwestern view of excavation extent. 02/20/2025

Maverick Bass B - 4 in Steel Line Lateral - Closure Request Report
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PHOTO 7: Southwestern view of excavation extent. 02/20/2025

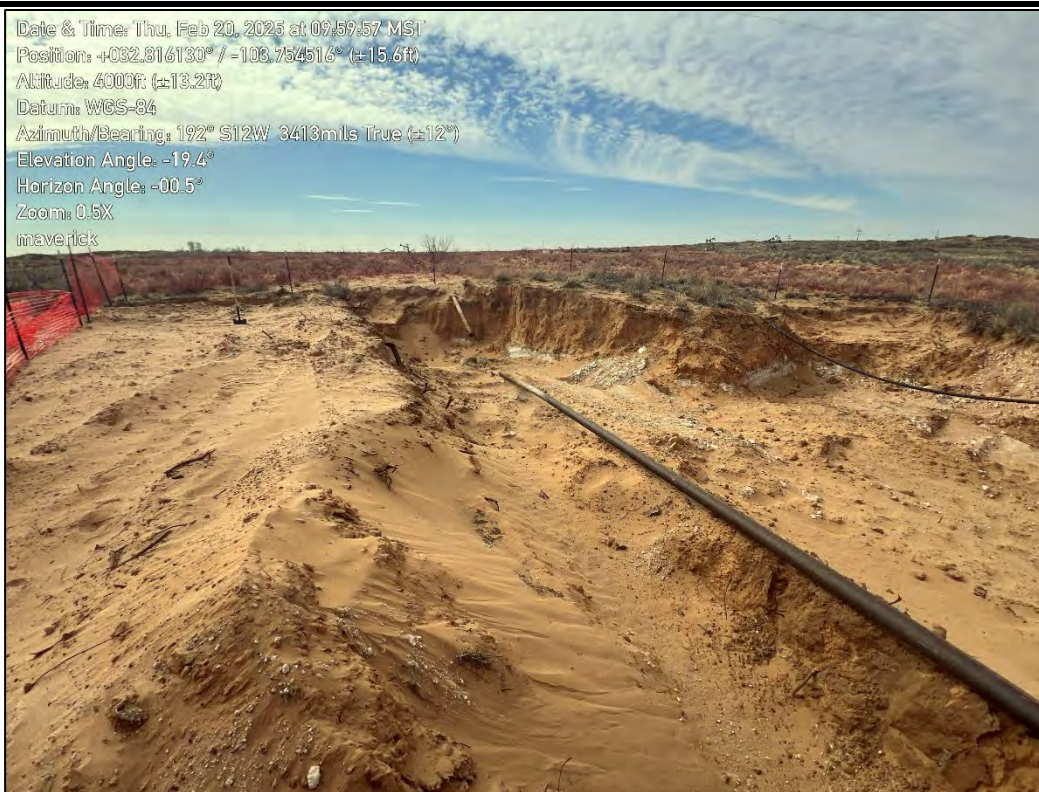


PHOTO 8: Southwestern view of excavation extent. 02/20/2025

Maverick Bass B - 4 in Steel Line Lateral - Closure Request Report
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PHOTO 9: Southwestern view after restoration activities. 03/11/2025



PHOTO 10: Southeastern view after restoration activities. 03/11/2025



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Maverick Bass B - 4 in Steel Line Lateral
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 - nAPP2500736173									
HA - 1	01/07/25	0.5	<0.0200	0.166	<49.9	97.5	<49.9	97.5	89.3
HA - 1	01/07/25	1	<0.0201	0.071	<50.1	59.3	<50.1	59.3	66.2
HA - 1	01/07/25	4	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	56.3
HA - 2	01/07/25	0.5	1.02	3.05	<49.8	531	<49.8	531	9,610
HA - 2	01/07/25	1	0.0444	0.548	<49.8	1,170	<49.8	1,170	7,390
HA - 2	01/07/25	4	0.0773	2.41	187	1,390	<49.7	1,580	557
HA - 3	01/07/25	0.5	0.0233	5.82	<50.4	196	<50.4	196	96
HA - 3	01/07/25	1	<0.00198	<0.00396	<50.5	<50.5	<50.5	<50.5	94
HA - 3	01/07/25	3	<0.0199	0.984	<49.9	<49.9	<49.9	<49.9	558
HA - 4	01/07/25	0.5	27.8	1,130	5,310	8,290	<498	13,600	4,000
HA - 4	01/07/25	1	<0.0200	0.285	<49.7	102	<49.7	102	3,050
HA - 4	01/07/25	2	<0.0201	<0.0402	<50.1	<50.1	<50.1	<50.1	4,170
HA - 4	01/07/25	4	<0.0199	<0.0398	<50.3	<50.3	<50.3	<50.3	619
HA - 5	01/07/25	0.5	45.4	666	7,220	8,530	<505	15,800	90.6
HA - 5	01/07/25	1	<0.0200	0.134	<49.8	<49.8	<49.8	<49.8	96.1
HA - 5	01/07/25	3.5	0.8	26.9	<50.0	57.6	<50.0	57.6	485
HA - 6	01/07/25	0.5	0.00203	0.00623	<50.1	<50.1	<50.1	<50.1	105
HA - 7	01/07/25	0.5	<0.00198	<0.00396	<50.4	<50.4	<50.4	<50.4	97.3
HA - 8	01/07/25	0.5	0.00462	0.0122	<50.5	<50.5	<50.5	<50.5	80.7
HA - 9	01/07/25	0.5	0.00207	0.00547	<50.0	<50.0	<50.0	<50.0	60.7
Confirmation Soil Samples - nAPP2500736173									
CS - 1	02/11/25	1.5	<0.00200	0.049	<49.8	232	<49.8	232	180
CS - 1	02/20/25	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<9.94
CS - 2	02/11/25	1.5	<0.00199	0.0268	<49.7	253	<49.7	253	115
CS - 2	02/20/25	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<9.98
CS - 3	02/11/25	1.5	<0.00199	0.0226	<49.8	235	<49.8	235	93.0
CS - 3	02/20/25	3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<10.1
CS - 4	02/11/25	6	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	95.4
CS - 5	02/11/25	6	<0.00199	<0.00398	<49.8	66.1	<49.8	66.1	19.7
CS - 6	02/11/25	6	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	68.9



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Maverick Bass B - 4 in Steel Line Lateral
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 - nAPP2500736173									
CS - 7	02/11/25	6	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	15.1
CS - 8	02/11/25	6	<0.00199	<0.00398	<49.8	65.9	<49.8	65.9	<9.96
CS - 9	02/11/25	6	<0.00199	0.026	<49.7	511	<49.7	511	18.4
CS - 9	02/20/25	8	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<9.92
CS - 10	02/11/25	1.5	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<9.92
CS - 11	02/11/25	1.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	11.6
CS - 12	02/11/25	1.5	<0.00199	0.237	<49.9	169	<49.9	169	30.8
CS - 12	02/20/25	3	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<10.0
CS - 13	02/11/25	1.5	<0.00200	0.0236	<50.0	139	<50.0	139	<10.0
CS - 13	02/20/25	3	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<9.96
SW - 1	02/11/25	0-6	<0.00199	0.0818	<49.8	<49.8	<49.8	<49.8	<9.92
SW - 2	02/11/25	0-6	<0.00199	0.00869	<49.8	<49.8	<49.8	<49.8	<10.0
SW - 3	02/11/25	0-6	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<10.1
SW - 4	02/11/25	0-6	<0.00198	0.00433	<49.8	<49.8	<49.8	<49.8	23.2

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

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 429022

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 429022
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500736173
Incident Name	NAPP2500736173 MAVERICK BASS B - 4 IN STEEL LINE LATERAL @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Maverick Bass B - 4 in Steel Line Lateral
Date Release Discovered	01/07/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,800
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/11/2025
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	32.815981,-103.754588

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/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 429022

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 429022
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
sorozco	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.	2/6/2025

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 432509

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 432509
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500736173
Incident Name	NAPP2500736173 MAVERICK BASS B - 4 IN STEEL LINE LATERAL @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Maverick Bass B - 4 in Steel Line Lateral
Date Release Discovered	01/07/2024
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,200
What is the estimated number of samples that will be gathered	6
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/20/2025
Time sampling will commence	09:00 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	32.815981,-103.754588

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/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 432509

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 432509
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
sorozco	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.	2/17/2025



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

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JOB DESCRIPTION

Maverick Bass B-4in Steal Line Lateral
Lea, NM

JOB NUMBER

890-7546-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

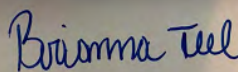
Eurofins Carlsbad

Job Notes

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

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

Authorization



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

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Laboratory Job ID: 890-7546-1
SDG: Lea, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	20
QC Sample Results	22
QC Association Summary	28
Lab Chronicle	33
Certification Summary	38
Method Summary	39
Sample Summary	40
Chain of Custody	41
Receipt Checklists	43

1

2

3

4

5

6

7

8

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10

11

12

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14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

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: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1

Job ID: 890-7546-1

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Job Narrative 890-7546-1

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 1/8/2025 8:00 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 -3.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 1 (890-7546-1), HA - 1 (890-7546-2), HA - 1 (890-7546-3), HA - 2 (890-7546-4), HA - 2 (890-7546-5), HA - 2 (890-7546-6), HA - 3 (890-7546-7), HA - 3 (890-7546-8), HA - 3 (890-7546-9), HA - 4 (890-7546-10), HA - 4 (890-7546-11), HA - 4 (890-7546-12), HA - 4 (890-7546-13), HA - 5 (890-7546-14), HA - 5 (890-7546-15) and HA - 5 (890-7546-16).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: HA - 5 (890-7546-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA - 1 (890-7546-1), HA - 1 (890-7546-2), HA - 2 (890-7546-4), HA - 2 (890-7546-5), HA - 2 (890-7546-6), HA - 3 (890-7546-7), HA - 4 (890-7546-10) and HA - 5 (890-7546-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-99841 and analytical batch 880-99753 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: HA - 1 (890-7546-1), HA - 1 (890-7546-2), HA - 2 (890-7546-4), HA - 2 (890-7546-5), HA - 2 (890-7546-6), HA - 3 (890-7546-7), HA - 3 (890-7546-9), HA - 4 (890-7546-10), HA - 4 (890-7546-11), HA - 4 (890-7546-12), HA - 4 (890-7546-13), HA - 5 (890-7546-14), HA - 5 (890-7546-15) and HA - 5 (890-7546-16). Elevated reporting limits (RLs) are provided.

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: HA - 1 (890-7546-1), HA - 1 (890-7546-3), HA - 3 (890-7546-9), HA - 5 (890-7546-15), (890-7546-A-1-E MS) and (890-7546-A-1-F MSD). 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 (890-7546-2), HA - 3 (890-7546-7) and HA - 4 (890-7546-12). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: HA - 5 (890-7546-16). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA - 4 (890-7546-10) and HA - 5 (890-7546-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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Case Narrative

Client: Earth Systems Response and Restoration
Project: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1

Job ID: 890-7546-1 (Continued)

Eurofins Carlsbad

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-99853 and analytical batch 880-99855 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: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 1

Lab Sample ID: 890-7546-1

Date Collected: 01/07/25 13:00

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0200		mg/Kg		01/08/25 15:49	01/09/25 00:12	10
Toluene	0.0222		0.0200		mg/Kg		01/08/25 15:49	01/09/25 00:12	10
Ethylbenzene	0.0510		0.0200		mg/Kg		01/08/25 15:49	01/09/25 00:12	10
m-Xylene & p-Xylene	0.0631		0.0399		mg/Kg		01/08/25 15:49	01/09/25 00:12	10
o-Xylene	0.0292		0.0200		mg/Kg		01/08/25 15:49	01/09/25 00:12	10
Xylenes, Total	0.0923		0.0399		mg/Kg		01/08/25 15:49	01/09/25 00:12	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130	01/08/25 15:49	01/09/25 00:12	10
1,4-Difluorobenzene (Surr)	119		70 - 130	01/08/25 15:49	01/09/25 00:12	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.166		0.0399		mg/Kg			01/09/25 00:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	97.5		49.9		mg/Kg			01/08/25 22:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/08/25 16:26	01/08/25 22:15	1
Diesel Range Organics (Over C10-C28)	97.5		49.9		mg/Kg		01/08/25 16:26	01/08/25 22:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/08/25 16:26	01/08/25 22:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	01/08/25 16:26	01/08/25 22:15	1
o-Terphenyl	69	S1-	70 - 130	01/08/25 16:26	01/08/25 22:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.3		10.1		mg/Kg			01/08/25 23:36	1

Client Sample ID: HA - 1

Lab Sample ID: 890-7546-2

Date Collected: 01/07/25 13:03

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0201	U	0.0201		mg/Kg		01/08/25 15:49	01/09/25 00:33	10
Toluene	<0.0201	U	0.0201		mg/Kg		01/08/25 15:49	01/09/25 00:33	10
Ethylbenzene	<0.0201	U	0.0201		mg/Kg		01/08/25 15:49	01/09/25 00:33	10
m-Xylene & p-Xylene	<0.0402	U	0.0402		mg/Kg		01/08/25 15:49	01/09/25 00:33	10
o-Xylene	0.0710		0.0201		mg/Kg		01/08/25 15:49	01/09/25 00:33	10
Xylenes, Total	0.0710		0.0402		mg/Kg		01/08/25 15:49	01/09/25 00:33	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	166	S1+	70 - 130	01/08/25 15:49	01/09/25 00:33	10

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 1

Lab Sample ID: 890-7546-2

Date Collected: 01/07/25 13:03

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	124		70 - 130	01/08/25 15:49	01/09/25 00:33	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0710		0.0402		mg/Kg			01/09/25 00:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.3		50.1		mg/Kg			01/08/25 23:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/08/25 16:26	01/08/25 23:24	1
Diesel Range Organics (Over C10-C28)	59.3		50.1		mg/Kg		01/08/25 16:26	01/08/25 23:24	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/08/25 16:26	01/08/25 23:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/08/25 16:26	01/08/25 23:24	1
o-Terphenyl	68	S1-	70 - 130				01/08/25 16:26	01/08/25 23:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.2		9.96		mg/Kg			01/08/25 23:42	1

Client Sample ID: HA - 1

Lab Sample ID: 890-7546-3

Date Collected: 01/07/25 13:06

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/08/25 15:49	01/08/25 23:32	1
Toluene	<0.00199	U F2 F1	0.00199		mg/Kg		01/08/25 15:49	01/08/25 23:32	1
Ethylbenzene	<0.00199	U F2 F1	0.00199		mg/Kg		01/08/25 15:49	01/08/25 23:32	1
m-Xylene & p-Xylene	<0.00398	U F2	0.00398		mg/Kg		01/08/25 15:49	01/08/25 23:32	1
o-Xylene	<0.00199	U F2	0.00199		mg/Kg		01/08/25 15:49	01/08/25 23:32	1
Xylenes, Total	<0.00398	U F2	0.00398		mg/Kg		01/08/25 15:49	01/08/25 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	01/08/25 15:49	01/08/25 23:32	1
1,4-Difluorobenzene (Surr)	88		70 - 130	01/08/25 15:49	01/08/25 23:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/08/25 23:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/08/25 23:38	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 1

Lab Sample ID: 890-7546-3

Date Collected: 01/07/25 13:06

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/08/25 16:26	01/08/25 23:38	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/08/25 16:26	01/08/25 23:38	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/08/25 16:26	01/08/25 23:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				01/08/25 16:26	01/08/25 23:38	1
o-Terphenyl	69	S1-	70 - 130				01/08/25 16:26	01/08/25 23:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.3		9.92		mg/Kg			01/09/25 00:00	1

Client Sample ID: HA - 2

Lab Sample ID: 890-7546-4

Date Collected: 01/07/25 13:09

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.02		0.0201		mg/Kg		01/08/25 15:49	01/09/25 00:53	10
Toluene	1.02		0.0201		mg/Kg		01/08/25 15:49	01/09/25 00:53	10
Ethylbenzene	0.484		0.0201		mg/Kg		01/08/25 15:49	01/09/25 00:53	10
m-Xylene & p-Xylene	0.402		0.0402		mg/Kg		01/08/25 15:49	01/09/25 00:53	10
o-Xylene	0.125		0.0201		mg/Kg		01/08/25 15:49	01/09/25 00:53	10
Xylenes, Total	0.527		0.0402		mg/Kg		01/08/25 15:49	01/09/25 00:53	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130				01/08/25 15:49	01/09/25 00:53	10
1,4-Difluorobenzene (Surr)	106		70 - 130				01/08/25 15:49	01/09/25 00:53	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	3.05		0.0402		mg/Kg			01/09/25 00:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	531		49.8		mg/Kg			01/08/25 23:53	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	<49.8	U	49.8		mg/Kg		01/08/25 16:26	01/08/25 23:53	1
Diesel Range Organics (Over C10-C28)	531		49.8		mg/Kg		01/08/25 16:26	01/08/25 23:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/08/25 16:26	01/08/25 23:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				01/08/25 16:26	01/08/25 23:53	1
o-Terphenyl	76		70 - 130				01/08/25 16:26	01/08/25 23:53	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 2

Lab Sample ID: 890-7546-4

Date Collected: 01/07/25 13:09

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9610		101		mg/Kg			01/09/25 00:06	10

Client Sample ID: HA - 2

Lab Sample ID: 890-7546-5

Date Collected: 01/07/25 13:12

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0444		0.0199		mg/Kg		01/08/25 15:49	01/09/25 01:14	10
Toluene	0.183		0.0199		mg/Kg		01/08/25 15:49	01/09/25 01:14	10
Ethylbenzene	0.137		0.0199		mg/Kg		01/08/25 15:49	01/09/25 01:14	10
m-Xylene & p-Xylene	0.142		0.0398		mg/Kg		01/08/25 15:49	01/09/25 01:14	10
o-Xylene	0.0411		0.0199		mg/Kg		01/08/25 15:49	01/09/25 01:14	10
Xylenes, Total	0.183		0.0398		mg/Kg		01/08/25 15:49	01/09/25 01:14	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				01/08/25 15:49	01/09/25 01:14	10
1,4-Difluorobenzene (Surr)	135	S1+	70 - 130				01/08/25 15:49	01/09/25 01:14	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.548		0.0398		mg/Kg			01/09/25 01:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1170		49.8		mg/Kg			01/09/25 00:07	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	<49.8	U	49.8		mg/Kg		01/08/25 16:26	01/09/25 00:07	1
Diesel Range Organics (Over C10-C28)	1170		49.8		mg/Kg		01/08/25 16:26	01/09/25 00:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/08/25 16:26	01/09/25 00:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				01/08/25 16:26	01/09/25 00:07	1
o-Terphenyl	77		70 - 130				01/08/25 16:26	01/09/25 00:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7390		99.4		mg/Kg			01/09/25 00:12	10

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 2

Lab Sample ID: 890-7546-6

Date Collected: 01/07/25 13:15

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0773		0.0201		mg/Kg		01/08/25 15:49	01/09/25 01:34	10
Toluene	0.700		0.0201		mg/Kg		01/08/25 15:49	01/09/25 01:34	10
Ethylbenzene	0.237		0.0201		mg/Kg		01/08/25 15:49	01/09/25 01:34	10
m-Xylene & p-Xylene	1.21		0.0402		mg/Kg		01/08/25 15:49	01/09/25 01:34	10
o-Xylene	0.188		0.0201		mg/Kg		01/08/25 15:49	01/09/25 01:34	10
Xylenes, Total	1.40		0.0402		mg/Kg		01/08/25 15:49	01/09/25 01:34	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	204	S1+	70 - 130	01/08/25 15:49	01/09/25 01:34	10
1,4-Difluorobenzene (Surr)	112		70 - 130	01/08/25 15:49	01/09/25 01:34	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	2.41		0.0402		mg/Kg			01/09/25 01:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1580		49.7		mg/Kg			01/09/25 00:23	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	187		49.7		mg/Kg		01/08/25 16:26	01/09/25 00:23	1
Diesel Range Organics (Over C10-C28)	1390		49.7		mg/Kg		01/08/25 16:26	01/09/25 00:23	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/08/25 16:26	01/09/25 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	01/08/25 16:26	01/09/25 00:23	1
o-Terphenyl	102		70 - 130	01/08/25 16:26	01/09/25 00:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	557		9.94		mg/Kg			01/09/25 00:18	1

Client Sample ID: HA - 3

Lab Sample ID: 890-7546-7

Date Collected: 01/07/25 13:18

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0233		0.0202		mg/Kg		01/08/25 15:49	01/09/25 01:54	10
Toluene	0.629		0.0202		mg/Kg		01/08/25 15:49	01/09/25 01:54	10
Ethylbenzene	1.96		0.0202		mg/Kg		01/08/25 15:49	01/09/25 01:54	10
m-Xylene & p-Xylene	2.16		0.0404		mg/Kg		01/08/25 15:49	01/09/25 01:54	10
o-Xylene	1.05		0.0202		mg/Kg		01/08/25 15:49	01/09/25 01:54	10
Xylenes, Total	3.21		0.0404		mg/Kg		01/08/25 15:49	01/09/25 01:54	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	250	S1+	70 - 130	01/08/25 15:49	01/09/25 01:54	10

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 3

Lab Sample ID: 890-7546-7

Date Collected: 01/07/25 13:18

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	116		70 - 130	01/08/25 15:49	01/09/25 01:54	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	5.82		0.0404		mg/Kg			01/09/25 01:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	196		50.4		mg/Kg			01/09/25 00:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/08/25 16:26	01/09/25 00:37	1
Diesel Range Organics (Over C10-C28)	196		50.4		mg/Kg		01/08/25 16:26	01/09/25 00:37	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/08/25 16:26	01/09/25 00:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				01/08/25 16:26	01/09/25 00:37	1
o-Terphenyl	68	S1-	70 - 130				01/08/25 16:26	01/09/25 00:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.1		9.96		mg/Kg			01/09/25 00:24	1

Client Sample ID: HA - 3

Lab Sample ID: 890-7546-8

Date Collected: 01/07/25 13:21

Matrix: Solid

Date Received: 01/08/25 08:00

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		01/08/25 15:49	01/08/25 23:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/08/25 15:49	01/08/25 23:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/08/25 15:49	01/08/25 23:52	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/08/25 15:49	01/08/25 23:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/08/25 15:49	01/08/25 23:52	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/08/25 15:49	01/08/25 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	01/08/25 15:49	01/08/25 23:52	1
1,4-Difluorobenzene (Surr)	87		70 - 130	01/08/25 15:49	01/08/25 23:52	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			01/08/25 23:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/09/25 00:52	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 3

Lab Sample ID: 890-7546-8

Date Collected: 01/07/25 13:21

Matrix: Solid

Date Received: 01/08/25 08:00

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	<50.5	U	50.5		mg/Kg		01/08/25 16:26	01/09/25 00:52	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/08/25 16:26	01/09/25 00:52	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/08/25 16:26	01/09/25 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				01/08/25 16:26	01/09/25 00:52	1
o-Terphenyl	73		70 - 130				01/08/25 16:26	01/09/25 00:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.1		9.98		mg/Kg			01/09/25 00:30	1

Client Sample ID: HA - 3

Lab Sample ID: 890-7546-9

Date Collected: 01/07/25 13:24

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0199	U	0.0199		mg/Kg		01/08/25 15:49	01/09/25 02:15	10
Toluene	0.0548		0.0199		mg/Kg		01/08/25 15:49	01/09/25 02:15	10
Ethylbenzene	0.0455		0.0199		mg/Kg		01/08/25 15:49	01/09/25 02:15	10
m-Xylene & p-Xylene	<0.0398	U	0.0398		mg/Kg		01/08/25 15:49	01/09/25 02:15	10
o-Xylene	0.884		0.0199		mg/Kg		01/08/25 15:49	01/09/25 02:15	10
Xylenes, Total	0.884		0.0398		mg/Kg		01/08/25 15:49	01/09/25 02:15	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				01/08/25 15:49	01/09/25 02:15	10
1,4-Difluorobenzene (Surr)	116		70 - 130				01/08/25 15:49	01/09/25 02:15	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.984		0.0398		mg/Kg			01/09/25 02:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/09/25 01:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/08/25 16:26	01/09/25 01:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/08/25 16:26	01/09/25 01:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/08/25 16:26	01/09/25 01:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				01/08/25 16:26	01/09/25 01:08	1
o-Terphenyl	69	S1-	70 - 130				01/08/25 16:26	01/09/25 01:08	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 3

Lab Sample ID: 890-7546-9

Date Collected: 01/07/25 13:24

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	558		9.92		mg/Kg			01/09/25 00:47	1

Client Sample ID: HA - 4

Lab Sample ID: 890-7546-10

Date Collected: 01/07/25 13:27

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	27.8		0.200		mg/Kg		01/08/25 15:49	01/09/25 02:35	100
Toluene	155		9.98		mg/Kg		01/09/25 09:29	01/09/25 13:09	5000
Ethylbenzene	123		9.98		mg/Kg		01/09/25 09:29	01/09/25 13:09	5000
m-Xylene & p-Xylene	111		20.0		mg/Kg		01/09/25 09:29	01/09/25 13:09	5000
o-Xylene	711		9.98		mg/Kg		01/09/25 09:29	01/09/25 13:09	5000
Xylenes, Total	822		20.0		mg/Kg		01/09/25 09:29	01/09/25 13:09	5000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	296	S1+	70 - 130				01/08/25 15:49	01/09/25 02:35	100
1,4-Difluorobenzene (Surr)	93		70 - 130				01/08/25 15:49	01/09/25 02:35	100

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1130		20.0		mg/Kg			01/09/25 13:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	13600		498		mg/Kg			01/09/25 01:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	5310		498		mg/Kg		01/08/25 16:26	01/09/25 01:22	10
Diesel Range Organics (Over C10-C28)	8290		498		mg/Kg		01/08/25 16:26	01/09/25 01:22	10
Oil Range Organics (Over C28-C36)	<498	U	498		mg/Kg		01/08/25 16:26	01/09/25 01:22	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	209	S1+	70 - 130				01/08/25 16:26	01/09/25 01:22	10
o-Terphenyl	252	S1+	70 - 130				01/08/25 16:26	01/09/25 01:22	10

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4000		49.9		mg/Kg			01/09/25 00:53	5

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 4

Lab Sample ID: 890-7546-11

Date Collected: 01/07/25 13:30

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0200		mg/Kg		01/08/25 15:49	01/09/25 04:18	10
Toluene	0.0404		0.0200		mg/Kg		01/08/25 15:49	01/09/25 04:18	10
Ethylbenzene	0.0728		0.0200		mg/Kg		01/08/25 15:49	01/09/25 04:18	10
m-Xylene & p-Xylene	0.0737		0.0399		mg/Kg		01/08/25 15:49	01/09/25 04:18	10
o-Xylene	0.0981		0.0200		mg/Kg		01/08/25 15:49	01/09/25 04:18	10
Xylenes, Total	0.172		0.0399		mg/Kg		01/08/25 15:49	01/09/25 04:18	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	01/08/25 15:49	01/09/25 04:18	10
1,4-Difluorobenzene (Surr)	126		70 - 130	01/08/25 15:49	01/09/25 04:18	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.285		0.0399		mg/Kg			01/09/25 04:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	102		49.7		mg/Kg			01/09/25 01:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/08/25 16:26	01/09/25 01:52	1
Diesel Range Organics (Over C10-C28)	102		49.7		mg/Kg		01/08/25 16:26	01/09/25 01:52	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/08/25 16:26	01/09/25 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	01/08/25 16:26	01/09/25 01:52	1
o-Terphenyl	73		70 - 130	01/08/25 16:26	01/09/25 01:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3050		49.6		mg/Kg			01/09/25 01:11	5

Client Sample ID: HA - 4

Lab Sample ID: 890-7546-12

Date Collected: 01/07/25 13:33

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0201	U	0.0201		mg/Kg		01/08/25 15:49	01/09/25 04:38	10
Toluene	<0.0201	U	0.0201		mg/Kg		01/08/25 15:49	01/09/25 04:38	10
Ethylbenzene	<0.0201	U	0.0201		mg/Kg		01/08/25 15:49	01/09/25 04:38	10
m-Xylene & p-Xylene	<0.0402	U	0.0402		mg/Kg		01/08/25 15:49	01/09/25 04:38	10
o-Xylene	0.0375		0.0201		mg/Kg		01/08/25 15:49	01/09/25 04:38	10
Xylenes, Total	<0.0402	U	0.0402		mg/Kg		01/08/25 15:49	01/09/25 04:38	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/08/25 15:49	01/09/25 04:38	10

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 4

Lab Sample ID: 890-7546-12

Date Collected: 01/07/25 13:33

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	01/08/25 15:49	01/09/25 04:38	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0402	U	0.0402		mg/Kg			01/09/25 04:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			01/09/25 02:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/08/25 16:26	01/09/25 02:06	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		01/08/25 16:26	01/09/25 02:06	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/08/25 16:26	01/09/25 02:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				01/08/25 16:26	01/09/25 02:06	1
o-Terphenyl	68	S1-	70 - 130				01/08/25 16:26	01/09/25 02:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4170		50.5		mg/Kg			01/09/25 01:17	5

Client Sample ID: HA - 4

Lab Sample ID: 890-7546-13

Date Collected: 01/07/25 13:36

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0199	U	0.0199		mg/Kg		01/08/25 15:49	01/09/25 04:59	10
Toluene	<0.0199	U	0.0199		mg/Kg		01/08/25 15:49	01/09/25 04:59	10
Ethylbenzene	<0.0199	U	0.0199		mg/Kg		01/08/25 15:49	01/09/25 04:59	10
m-Xylene & p-Xylene	<0.0398	U	0.0398		mg/Kg		01/08/25 15:49	01/09/25 04:59	10
o-Xylene	<0.0199	U	0.0199		mg/Kg		01/08/25 15:49	01/09/25 04:59	10
Xylenes, Total	<0.0398	U	0.0398		mg/Kg		01/08/25 15:49	01/09/25 04:59	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	01/08/25 15:49	01/09/25 04:59	10
1,4-Difluorobenzene (Surr)	98		70 - 130	01/08/25 15:49	01/09/25 04:59	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0398	U	0.0398		mg/Kg			01/09/25 04:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			01/09/25 02:21	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 4

Lab Sample ID: 890-7546-13

Date Collected: 01/07/25 13:36

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		01/08/25 16:26	01/09/25 02:21	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		01/08/25 16:26	01/09/25 02:21	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/08/25 16:26	01/09/25 02:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				01/08/25 16:26	01/09/25 02:21	1
o-Terphenyl	72		70 - 130				01/08/25 16:26	01/09/25 02:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	619		10.0		mg/Kg			01/09/25 01:23	1

Client Sample ID: HA - 5

Lab Sample ID: 890-7546-14

Date Collected: 01/07/25 13:39

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	45.4		10.1		mg/Kg		01/09/25 09:29	01/09/25 13:30	5000
Toluene	241		10.1		mg/Kg		01/09/25 09:29	01/09/25 13:30	5000
Ethylbenzene	164		10.1		mg/Kg		01/09/25 09:29	01/09/25 13:30	5000
m-Xylene & p-Xylene	138		20.2		mg/Kg		01/09/25 09:29	01/09/25 13:30	5000
o-Xylene	77.3		10.1		mg/Kg		01/09/25 09:29	01/09/25 13:30	5000
Xylenes, Total	215		20.2		mg/Kg		01/09/25 09:29	01/09/25 13:30	5000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	438	S1+	70 - 130				01/08/25 15:49	01/09/25 05:40	50
1,4-Difluorobenzene (Surr)	151	S1+	70 - 130				01/08/25 15:49	01/09/25 05:40	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	666		20.2		mg/Kg			01/09/25 13:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15800		505		mg/Kg			01/09/25 02:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	7220		505		mg/Kg		01/08/25 16:26	01/09/25 02:37	10
Diesel Range Organics (Over C10-C28)	8530		505		mg/Kg		01/08/25 16:26	01/09/25 02:37	10
Oil Range Organics (Over C28-C36)	<505	U	505		mg/Kg		01/08/25 16:26	01/09/25 02:37	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	208	S1+	70 - 130				01/08/25 16:26	01/09/25 02:37	10
o-Terphenyl	248	S1+	70 - 130				01/08/25 16:26	01/09/25 02:37	10

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 5

Lab Sample ID: 890-7546-14

Date Collected: 01/07/25 13:39

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.6		10.0		mg/Kg			01/09/25 01:29	1

Client Sample ID: HA - 5

Lab Sample ID: 890-7546-15

Date Collected: 01/07/25 13:42

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0200		mg/Kg		01/08/25 15:49	01/09/25 03:57	10
Toluene	0.0267		0.0200		mg/Kg		01/08/25 15:49	01/09/25 03:57	10
Ethylbenzene	0.0386		0.0200		mg/Kg		01/08/25 15:49	01/09/25 03:57	10
m-Xylene & p-Xylene	0.0441		0.0400		mg/Kg		01/08/25 15:49	01/09/25 03:57	10
o-Xylene	0.0242		0.0200		mg/Kg		01/08/25 15:49	01/09/25 03:57	10
Xylenes, Total	0.0683		0.0400		mg/Kg		01/08/25 15:49	01/09/25 03:57	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				01/08/25 15:49	01/09/25 03:57	10
1,4-Difluorobenzene (Surr)	101		70 - 130				01/08/25 15:49	01/09/25 03:57	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.134		0.0400		mg/Kg			01/09/25 03:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/09/25 02:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/08/25 16:26	01/09/25 02:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/08/25 16:26	01/09/25 02:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/08/25 16:26	01/09/25 02:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				01/08/25 16:26	01/09/25 02:52	1
o-Terphenyl	66	S1-	70 - 130				01/08/25 16:26	01/09/25 02:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.1	F1	9.96		mg/Kg			01/08/25 23:00	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 5

Lab Sample ID: 890-7546-16

Date Collected: 01/07/25 13:45

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 3.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.800		0.0199		mg/Kg		01/08/25 15:49	01/09/25 05:19	10
Toluene	13.2		1.01		mg/Kg		01/08/25 15:49	01/09/25 09:13	500
Ethylbenzene	7.70		1.01		mg/Kg		01/08/25 15:49	01/09/25 09:13	500
m-Xylene & p-Xylene	3.81		0.0398		mg/Kg		01/08/25 15:49	01/09/25 05:19	10
o-Xylene	1.39		0.0199		mg/Kg		01/08/25 15:49	01/09/25 05:19	10
Xylenes, Total	5.20		0.0398		mg/Kg		01/08/25 15:49	01/09/25 05:19	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	229	S1+	70 - 130	01/08/25 15:49	01/09/25 05:19	10
1,4-Difluorobenzene (Surr)	132	S1+	70 - 130	01/08/25 15:49	01/09/25 05:19	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	26.9		1.01		mg/Kg			01/09/25 09:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.6		50.0		mg/Kg			01/09/25 03:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/08/25 16:26	01/09/25 03:06	1
Diesel Range Organics (Over C10-C28)	57.6		50.0		mg/Kg		01/08/25 16:26	01/09/25 03:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/08/25 16:26	01/09/25 03:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130	01/08/25 16:26	01/09/25 03:06	1
o-Terphenyl	70		70 - 130	01/08/25 16:26	01/09/25 03:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	485		9.90		mg/Kg			01/08/25 23:17	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, 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)
890-7546-1	HA - 1	146 S1+	119
890-7546-2	HA - 1	166 S1+	124
890-7546-3	HA - 1	109	88
890-7546-3 MS	HA - 1	129	120
890-7546-3 MSD	HA - 1	88	93
890-7546-4	HA - 2	143 S1+	106
890-7546-5	HA - 2	104	135 S1+
890-7546-6	HA - 2	204 S1+	112
890-7546-7	HA - 3	250 S1+	116
890-7546-8	HA - 3	105	87
890-7546-9	HA - 3	104	116
890-7546-10	HA - 4	296 S1+	93
890-7546-11	HA - 4	119	126
890-7546-12	HA - 4	96	97
890-7546-13	HA - 4	104	98
890-7546-14	HA - 5	438 S1+	151 S1+
890-7546-15	HA - 5	111	101
890-7546-16	HA - 5	229 S1+	132 S1+
LCS 880-99841/1-A	Lab Control Sample	82	99
LCS 880-99901/1-A	Lab Control Sample	112	103
LCSD 880-99841/2-A	Lab Control Sample Dup	88	98
LCSD 880-99901/2-A	Lab Control Sample Dup	119	102
MB 880-99759/5-A	Method Blank	112	82
MB 880-99841/5-A	Method Blank	102	79
MB 880-99901/5-A	Method Blank	113	102
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)
890-7546-1	HA - 1	70	69 S1-
890-7546-1 MS	HA - 1	70	67 S1-
890-7546-1 MSD	HA - 1	71	67 S1-
890-7546-2	HA - 1	69 S1-	68 S1-
890-7546-3	HA - 1	74	69 S1-
890-7546-4	HA - 2	71	76
890-7546-5	HA - 2	72	77
890-7546-6	HA - 2	75	102
890-7546-7	HA - 3	67 S1-	68 S1-
890-7546-8	HA - 3	76	73
890-7546-9	HA - 3	70	69 S1-
890-7546-10	HA - 4	209 S1+	252 S1+
890-7546-11	HA - 4	72	73
890-7546-12	HA - 4	69 S1-	68 S1-

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7546-13	HA - 4	73	72
890-7546-14	HA - 5	208 S1+	248 S1+
890-7546-15	HA - 5	70	66 S1-
890-7546-16	HA - 5	69 S1-	70
LCS 880-99849/2-A	Lab Control Sample	82	79
LCSD 880-99849/3-A	Lab Control Sample Dup	83	79
MB 880-99849/1-A	Method Blank	124	125
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99759/5-A

Matrix: Solid

Analysis Batch: 99753

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/08/25 08:28	01/08/25 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/08/25 08:28	01/08/25 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/08/25 08:28	01/08/25 11:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/08/25 08:28	01/08/25 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/08/25 08:28	01/08/25 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/08/25 08:28	01/08/25 11:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	01/08/25 08:28	01/08/25 11:14	1
1,4-Difluorobenzene (Surr)	82		70 - 130	01/08/25 08:28	01/08/25 11:14	1

Lab Sample ID: MB 880-99841/5-A

Matrix: Solid

Analysis Batch: 99753

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/08/25 15:49	01/08/25 23:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/08/25 15:49	01/08/25 23:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/08/25 15:49	01/08/25 23:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/08/25 15:49	01/08/25 23:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/08/25 15:49	01/08/25 23:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/08/25 15:49	01/08/25 23:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	01/08/25 15:49	01/08/25 23:10	1
1,4-Difluorobenzene (Surr)	79		70 - 130	01/08/25 15:49	01/08/25 23:10	1

Lab Sample ID: LCS 880-99841/1-A

Matrix: Solid

Analysis Batch: 99753

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09883		mg/Kg		99	70 - 130
Toluene	0.100	0.09406		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.08341		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1639		mg/Kg		82	70 - 130
o-Xylene	0.100	0.08438		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-99841/2-A

Matrix: Solid

Analysis Batch: 99753

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99841

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1019		mg/Kg		102	70 - 130	3	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

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

Lab Sample ID: LCSD 880-99841/2-A

Matrix: Solid

Analysis Batch: 99753

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99841

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09582		mg/Kg		96	70 - 130	2	35
Ethylbenzene	0.100	0.08682		mg/Kg		87	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1726		mg/Kg		86	70 - 130	5	35
o-Xylene	0.100	0.08783		mg/Kg		88	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-7546-3 MS

Matrix: Solid

Analysis Batch: 99753

Client Sample ID: HA - 1

Prep Type: Total/NA

Prep Batch: 99841

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.100	0.1064		mg/Kg		105	70 - 130
Toluene	<0.00199	U F2 F1	0.100	0.1477	F1	mg/Kg		148	70 - 130
Ethylbenzene	<0.00199	U F2 F1	0.100	0.1309	F1	mg/Kg		131	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2	0.200	0.2441		mg/Kg		122	70 - 130
o-Xylene	<0.00199	U F2	0.100	0.1222		mg/Kg		122	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	120		70 - 130

Lab Sample ID: 890-7546-3 MSD

Matrix: Solid

Analysis Batch: 99753

Client Sample ID: HA - 1

Prep Type: Total/NA

Prep Batch: 99841

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08977		mg/Kg		88	70 - 130	17	35
Toluene	<0.00199	U F2 F1	0.100	0.08726	F2	mg/Kg		87	70 - 130	51	35
Ethylbenzene	<0.00199	U F2 F1	0.100	0.07759	F2	mg/Kg		78	70 - 130	51	35
m-Xylene & p-Xylene	<0.00398	U F2	0.200	0.1552	F2	mg/Kg		78	70 - 130	45	35
o-Xylene	<0.00199	U F2	0.100	0.07726	F2	mg/Kg		77	70 - 130	45	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-99901/5-A

Matrix: Solid

Analysis Batch: 99899

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/09/25 09:29	01/09/25 12:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/25 09:29	01/09/25 12:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/09/25 09:29	01/09/25 12:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/09/25 09:29	01/09/25 12:06	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

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

Lab Sample ID: MB 880-99901/5-A

Matrix: Solid

Analysis Batch: 99899

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/25 09:29	01/09/25 12:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/09/25 09:29	01/09/25 12:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	01/09/25 09:29	01/09/25 12:06	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/09/25 09:29	01/09/25 12:06	1

Lab Sample ID: LCS 880-99901/1-A

Matrix: Solid

Analysis Batch: 99899

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1107		mg/Kg		111	70 - 130
Toluene	0.100	0.1091		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1089		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2214		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1138		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-99901/2-A

Matrix: Solid

Analysis Batch: 99899

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99901

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1087		mg/Kg		109	70 - 130	2	35
Toluene	0.100	0.1067		mg/Kg		107	70 - 130	2	35
Ethylbenzene	0.100	0.1065		mg/Kg		106	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2175		mg/Kg		109	70 - 130	2	35
o-Xylene	0.100	0.1112		mg/Kg		111	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-99849/1-A

Matrix: Solid

Analysis Batch: 99794

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99849

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/08/25 16:26	01/08/25 17:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/08/25 16:26	01/08/25 17:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/08/25 16:26	01/08/25 17:26	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	01/08/25 16:26	01/08/25 17:26	1
o-Terphenyl	125		70 - 130	01/08/25 16:26	01/08/25 17:26	1

Lab Sample ID: LCS 880-99849/2-A

Matrix: Solid

Analysis Batch: 99794

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	809.4		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	730.9		mg/Kg		73	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: LCSD 880-99849/3-A

Matrix: Solid

Analysis Batch: 99794

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99849

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	817.0		mg/Kg		82	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	786.2		mg/Kg		79	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: 890-7546-1 MS

Matrix: Solid

Analysis Batch: 99794

Client Sample ID: HA - 1

Prep Type: Total/NA

Prep Batch: 99849

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	732.6		mg/Kg		73	70 - 130
Diesel Range Organics (Over C10-C28)	97.5		1000	844.4		mg/Kg		75	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	70		70 - 130
o-Terphenyl	67	S1-	70 - 130

Lab Sample ID: 890-7546-1 MSD

Matrix: Solid

Analysis Batch: 99794

Client Sample ID: HA - 1

Prep Type: Total/NA

Prep Batch: 99849

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	729.6		mg/Kg		73	70 - 130	0	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

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

Lab Sample ID: 890-7546-1 MSD

Matrix: Solid

Analysis Batch: 99794

Client Sample ID: HA - 1

Prep Type: Total/NA

Prep Batch: 99849

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	97.5		1000	898.1		mg/Kg		80	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	71		70 - 130								
o-Terphenyl	67	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99852/1-A

Matrix: Solid

Analysis Batch: 99854

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/08/25 22:49	1

Lab Sample ID: LCS 880-99852/2-A

Matrix: Solid

Analysis Batch: 99854

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	256.7		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-99852/3-A

Matrix: Solid

Analysis Batch: 99854

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	257.1		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-7546-8 MS

Matrix: Solid

Analysis Batch: 99854

Client Sample ID: HA - 3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	94.1		250	359.4		mg/Kg		106	90 - 110

Lab Sample ID: 890-7546-8 MSD

Matrix: Solid

Analysis Batch: 99854

Client Sample ID: HA - 3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	94.1		250	358.8		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-99853/1-A

Matrix: Solid

Analysis Batch: 99855

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/08/25 22:43	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-99853/2-A				Client Sample ID: Lab Control Sample						
Matrix: Solid				Prep Type: Soluble						
Analysis Batch: 99855										
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride			250	266.5		mg/Kg		107	90 - 110	

Lab Sample ID: LCSD 880-99853/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Solid				Prep Type: Soluble						
Analysis Batch: 99855										
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Chloride			250	266.0		mg/Kg		106	90 - 110	0 20

Lab Sample ID: 890-7546-15 MS				Client Sample ID: HA - 5						
Matrix: Solid				Prep Type: Soluble						
Analysis Batch: 99855										
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Chloride	96.1	F1	249	395.3	F1	mg/Kg		120	90 - 110	

Lab Sample ID: 890-7546-15 MSD				Client Sample ID: HA - 5						
Matrix: Solid				Prep Type: Soluble						
Analysis Batch: 99855										
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Chloride	96.1	F1	249	395.7	F1	mg/Kg		120	90 - 110	0 20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

GC VOA

Analysis Batch: 99753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7546-1	HA - 1	Total/NA	Solid	8021B	99841
890-7546-2	HA - 1	Total/NA	Solid	8021B	99841
890-7546-3	HA - 1	Total/NA	Solid	8021B	99841
890-7546-4	HA - 2	Total/NA	Solid	8021B	99841
890-7546-5	HA - 2	Total/NA	Solid	8021B	99841
890-7546-6	HA - 2	Total/NA	Solid	8021B	99841
890-7546-7	HA - 3	Total/NA	Solid	8021B	99841
890-7546-8	HA - 3	Total/NA	Solid	8021B	99841
890-7546-9	HA - 3	Total/NA	Solid	8021B	99841
890-7546-10	HA - 4	Total/NA	Solid	8021B	99841
890-7546-11	HA - 4	Total/NA	Solid	8021B	99841
890-7546-12	HA - 4	Total/NA	Solid	8021B	99841
890-7546-13	HA - 4	Total/NA	Solid	8021B	99841
890-7546-14	HA - 5	Total/NA	Solid	8021B	99841
890-7546-15	HA - 5	Total/NA	Solid	8021B	99841
890-7546-16	HA - 5	Total/NA	Solid	8021B	99841
890-7546-16	HA - 5	Total/NA	Solid	8021B	99841
MB 880-99759/5-A	Method Blank	Total/NA	Solid	8021B	99759
MB 880-99841/5-A	Method Blank	Total/NA	Solid	8021B	99841
LCS 880-99841/1-A	Lab Control Sample	Total/NA	Solid	8021B	99841
LCSD 880-99841/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99841
890-7546-3 MS	HA - 1	Total/NA	Solid	8021B	99841
890-7546-3 MSD	HA - 1	Total/NA	Solid	8021B	99841

Prep Batch: 99759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-99759/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 99841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7546-1	HA - 1	Total/NA	Solid	5035	
890-7546-2	HA - 1	Total/NA	Solid	5035	
890-7546-3	HA - 1	Total/NA	Solid	5035	
890-7546-4	HA - 2	Total/NA	Solid	5035	
890-7546-5	HA - 2	Total/NA	Solid	5035	
890-7546-6	HA - 2	Total/NA	Solid	5035	
890-7546-7	HA - 3	Total/NA	Solid	5035	
890-7546-8	HA - 3	Total/NA	Solid	5035	
890-7546-9	HA - 3	Total/NA	Solid	5035	
890-7546-10	HA - 4	Total/NA	Solid	5035	
890-7546-11	HA - 4	Total/NA	Solid	5035	
890-7546-12	HA - 4	Total/NA	Solid	5035	
890-7546-13	HA - 4	Total/NA	Solid	5035	
890-7546-14	HA - 5	Total/NA	Solid	5035	
890-7546-15	HA - 5	Total/NA	Solid	5035	
890-7546-16	HA - 5	Total/NA	Solid	5035	
890-7546-16	HA - 5	Total/NA	Solid	5035	
MB 880-99841/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99841/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99841/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7546-3 MS	HA - 1	Total/NA	Solid	5035	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

GC VOA (Continued)

Prep Batch: 99841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7546-3 MSD	HA - 1	Total/NA	Solid	5035	

Analysis Batch: 99887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7546-1	HA - 1	Total/NA	Solid	Total BTEX	
890-7546-2	HA - 1	Total/NA	Solid	Total BTEX	
890-7546-3	HA - 1	Total/NA	Solid	Total BTEX	
890-7546-4	HA - 2	Total/NA	Solid	Total BTEX	
890-7546-5	HA - 2	Total/NA	Solid	Total BTEX	
890-7546-6	HA - 2	Total/NA	Solid	Total BTEX	
890-7546-7	HA - 3	Total/NA	Solid	Total BTEX	
890-7546-8	HA - 3	Total/NA	Solid	Total BTEX	
890-7546-9	HA - 3	Total/NA	Solid	Total BTEX	
890-7546-10	HA - 4	Total/NA	Solid	Total BTEX	
890-7546-11	HA - 4	Total/NA	Solid	Total BTEX	
890-7546-12	HA - 4	Total/NA	Solid	Total BTEX	
890-7546-13	HA - 4	Total/NA	Solid	Total BTEX	
890-7546-14	HA - 5	Total/NA	Solid	Total BTEX	
890-7546-15	HA - 5	Total/NA	Solid	Total BTEX	
890-7546-16	HA - 5	Total/NA	Solid	Total BTEX	

Analysis Batch: 99899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7546-10	HA - 4	Total/NA	Solid	8021B	99901
890-7546-14	HA - 5	Total/NA	Solid	8021B	99901
MB 880-99901/5-A	Method Blank	Total/NA	Solid	8021B	99901
LCS 880-99901/1-A	Lab Control Sample	Total/NA	Solid	8021B	99901
LCSD 880-99901/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99901

Prep Batch: 99901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7546-10	HA - 4	Total/NA	Solid	5035	
890-7546-14	HA - 5	Total/NA	Solid	5035	
MB 880-99901/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99901/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99901/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 99794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7546-1	HA - 1	Total/NA	Solid	8015B NM	99849
890-7546-2	HA - 1	Total/NA	Solid	8015B NM	99849
890-7546-3	HA - 1	Total/NA	Solid	8015B NM	99849
890-7546-4	HA - 2	Total/NA	Solid	8015B NM	99849
890-7546-5	HA - 2	Total/NA	Solid	8015B NM	99849
890-7546-6	HA - 2	Total/NA	Solid	8015B NM	99849
890-7546-7	HA - 3	Total/NA	Solid	8015B NM	99849
890-7546-8	HA - 3	Total/NA	Solid	8015B NM	99849
890-7546-9	HA - 3	Total/NA	Solid	8015B NM	99849
890-7546-10	HA - 4	Total/NA	Solid	8015B NM	99849

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

GC Semi VOA (Continued)

Analysis Batch: 99794 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7546-11	HA - 4	Total/NA	Solid	8015B NM	99849
890-7546-12	HA - 4	Total/NA	Solid	8015B NM	99849
890-7546-13	HA - 4	Total/NA	Solid	8015B NM	99849
890-7546-14	HA - 5	Total/NA	Solid	8015B NM	99849
890-7546-15	HA - 5	Total/NA	Solid	8015B NM	99849
890-7546-16	HA - 5	Total/NA	Solid	8015B NM	99849
MB 880-99849/1-A	Method Blank	Total/NA	Solid	8015B NM	99849
LCS 880-99849/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99849
LCSD 880-99849/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99849
890-7546-1 MS	HA - 1	Total/NA	Solid	8015B NM	99849
890-7546-1 MSD	HA - 1	Total/NA	Solid	8015B NM	99849

Prep Batch: 99849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7546-1	HA - 1	Total/NA	Solid	8015NM Prep	
890-7546-2	HA - 1	Total/NA	Solid	8015NM Prep	
890-7546-3	HA - 1	Total/NA	Solid	8015NM Prep	
890-7546-4	HA - 2	Total/NA	Solid	8015NM Prep	
890-7546-5	HA - 2	Total/NA	Solid	8015NM Prep	
890-7546-6	HA - 2	Total/NA	Solid	8015NM Prep	
890-7546-7	HA - 3	Total/NA	Solid	8015NM Prep	
890-7546-8	HA - 3	Total/NA	Solid	8015NM Prep	
890-7546-9	HA - 3	Total/NA	Solid	8015NM Prep	
890-7546-10	HA - 4	Total/NA	Solid	8015NM Prep	
890-7546-11	HA - 4	Total/NA	Solid	8015NM Prep	
890-7546-12	HA - 4	Total/NA	Solid	8015NM Prep	
890-7546-13	HA - 4	Total/NA	Solid	8015NM Prep	
890-7546-14	HA - 5	Total/NA	Solid	8015NM Prep	
890-7546-15	HA - 5	Total/NA	Solid	8015NM Prep	
890-7546-16	HA - 5	Total/NA	Solid	8015NM Prep	
MB 880-99849/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99849/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99849/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7546-1 MS	HA - 1	Total/NA	Solid	8015NM Prep	
890-7546-1 MSD	HA - 1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7546-1	HA - 1	Total/NA	Solid	8015 NM	
890-7546-2	HA - 1	Total/NA	Solid	8015 NM	
890-7546-3	HA - 1	Total/NA	Solid	8015 NM	
890-7546-4	HA - 2	Total/NA	Solid	8015 NM	
890-7546-5	HA - 2	Total/NA	Solid	8015 NM	
890-7546-6	HA - 2	Total/NA	Solid	8015 NM	
890-7546-7	HA - 3	Total/NA	Solid	8015 NM	
890-7546-8	HA - 3	Total/NA	Solid	8015 NM	
890-7546-9	HA - 3	Total/NA	Solid	8015 NM	
890-7546-10	HA - 4	Total/NA	Solid	8015 NM	
890-7546-11	HA - 4	Total/NA	Solid	8015 NM	
890-7546-12	HA - 4	Total/NA	Solid	8015 NM	
890-7546-13	HA - 4	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

GC Semi VOA (Continued)

Analysis Batch: 99947 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7546-14	HA - 5	Total/NA	Solid	8015 NM	
890-7546-15	HA - 5	Total/NA	Solid	8015 NM	
890-7546-16	HA - 5	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7546-1	HA - 1	Soluble	Solid	DI Leach	
890-7546-2	HA - 1	Soluble	Solid	DI Leach	
890-7546-3	HA - 1	Soluble	Solid	DI Leach	
890-7546-4	HA - 2	Soluble	Solid	DI Leach	
890-7546-5	HA - 2	Soluble	Solid	DI Leach	
890-7546-6	HA - 2	Soluble	Solid	DI Leach	
890-7546-7	HA - 3	Soluble	Solid	DI Leach	
890-7546-8	HA - 3	Soluble	Solid	DI Leach	
890-7546-9	HA - 3	Soluble	Solid	DI Leach	
890-7546-10	HA - 4	Soluble	Solid	DI Leach	
890-7546-11	HA - 4	Soluble	Solid	DI Leach	
890-7546-12	HA - 4	Soluble	Solid	DI Leach	
890-7546-13	HA - 4	Soluble	Solid	DI Leach	
890-7546-14	HA - 5	Soluble	Solid	DI Leach	
MB 880-99852/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99852/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99852/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7546-8 MS	HA - 3	Soluble	Solid	DI Leach	
890-7546-8 MSD	HA - 3	Soluble	Solid	DI Leach	

Leach Batch: 99853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7546-15	HA - 5	Soluble	Solid	DI Leach	
890-7546-16	HA - 5	Soluble	Solid	DI Leach	
MB 880-99853/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99853/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99853/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7546-15 MS	HA - 5	Soluble	Solid	DI Leach	
890-7546-15 MSD	HA - 5	Soluble	Solid	DI Leach	

Analysis Batch: 99854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7546-1	HA - 1	Soluble	Solid	300.0	99852
890-7546-2	HA - 1	Soluble	Solid	300.0	99852
890-7546-3	HA - 1	Soluble	Solid	300.0	99852
890-7546-4	HA - 2	Soluble	Solid	300.0	99852
890-7546-5	HA - 2	Soluble	Solid	300.0	99852
890-7546-6	HA - 2	Soluble	Solid	300.0	99852
890-7546-7	HA - 3	Soluble	Solid	300.0	99852
890-7546-8	HA - 3	Soluble	Solid	300.0	99852
890-7546-9	HA - 3	Soluble	Solid	300.0	99852
890-7546-10	HA - 4	Soluble	Solid	300.0	99852
890-7546-11	HA - 4	Soluble	Solid	300.0	99852

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

HPLC/IC (Continued)

Analysis Batch: 99854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7546-12	HA - 4	Soluble	Solid	300.0	99852
890-7546-13	HA - 4	Soluble	Solid	300.0	99852
890-7546-14	HA - 5	Soluble	Solid	300.0	99852
MB 880-99852/1-A	Method Blank	Soluble	Solid	300.0	99852
LCS 880-99852/2-A	Lab Control Sample	Soluble	Solid	300.0	99852
LCSD 880-99852/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99852
890-7546-8 MS	HA - 3	Soluble	Solid	300.0	99852
890-7546-8 MSD	HA - 3	Soluble	Solid	300.0	99852

Analysis Batch: 99855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7546-15	HA - 5	Soluble	Solid	300.0	99853
890-7546-16	HA - 5	Soluble	Solid	300.0	99853
MB 880-99853/1-A	Method Blank	Soluble	Solid	300.0	99853
LCS 880-99853/2-A	Lab Control Sample	Soluble	Solid	300.0	99853
LCSD 880-99853/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99853
890-7546-15 MS	HA - 5	Soluble	Solid	300.0	99853
890-7546-15 MSD	HA - 5	Soluble	Solid	300.0	99853

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 1

Date Collected: 01/07/25 13:00

Date Received: 01/08/25 08:00

Lab Sample ID: 890-7546-1

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	99841	01/08/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	99753	01/09/25 00:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99887	01/09/25 00:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			99947	01/08/25 22:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	99849	01/08/25 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 22:15	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99852	01/08/25 16:31	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99854	01/08/25 23:36	CH	EET MID

Client Sample ID: HA - 1

Date Collected: 01/07/25 13:03

Date Received: 01/08/25 08:00

Lab Sample ID: 890-7546-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	99841	01/08/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	99753	01/09/25 00:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99887	01/09/25 00:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			99947	01/08/25 23:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	99849	01/08/25 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 23:24	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99852	01/08/25 16:31	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99854	01/08/25 23:42	CH	EET MID

Client Sample ID: HA - 1

Date Collected: 01/07/25 13:06

Date Received: 01/08/25 08:00

Lab Sample ID: 890-7546-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99841	01/08/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99753	01/08/25 23:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99887	01/08/25 23:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			99947	01/08/25 23:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99849	01/08/25 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 23:38	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99852	01/08/25 16:31	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99854	01/09/25 00:00	CH	EET MID

Client Sample ID: HA - 2

Date Collected: 01/07/25 13:09

Date Received: 01/08/25 08:00

Lab Sample ID: 890-7546-4

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			4.97 g	5 mL	99841	01/08/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	99753	01/09/25 00:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99887	01/09/25 00:53	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 2

Lab Sample ID: 890-7546-4

Date Collected: 01/07/25 13:09

Matrix: Solid

Date Received: 01/08/25 08:00

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			99947	01/08/25 23:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	99849	01/08/25 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/08/25 23:53	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	99852	01/08/25 16:31	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	99854	01/09/25 00:06	CH	EET MID

Client Sample ID: HA - 2

Lab Sample ID: 890-7546-5

Date Collected: 01/07/25 13:12

Matrix: Solid

Date Received: 01/08/25 08:00

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	99841	01/08/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	99753	01/09/25 01:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99887	01/09/25 01:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			99947	01/09/25 00:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99849	01/08/25 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/09/25 00:07	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99852	01/08/25 16:31	CH	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	99854	01/09/25 00:12	CH	EET MID

Client Sample ID: HA - 2

Lab Sample ID: 890-7546-6

Date Collected: 01/07/25 13:15

Matrix: Solid

Date Received: 01/08/25 08:00

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	99841	01/08/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	99753	01/09/25 01:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99887	01/09/25 01:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			99947	01/09/25 00:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	99849	01/08/25 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/09/25 00:23	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99852	01/08/25 16:31	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99854	01/09/25 00:18	CH	EET MID

Client Sample ID: HA - 3

Lab Sample ID: 890-7546-7

Date Collected: 01/07/25 13:18

Matrix: Solid

Date Received: 01/08/25 08:00

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	99841	01/08/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	99753	01/09/25 01:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99887	01/09/25 01:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			99947	01/09/25 00:37	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	99849	01/08/25 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/09/25 00:37	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 3

Date Collected: 01/07/25 13:18

Date Received: 01/08/25 08:00

Lab Sample ID: 890-7546-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	99852	01/08/25 16:31	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99854	01/09/25 00:24	CH	EET MID

Client Sample ID: HA - 3

Date Collected: 01/07/25 13:21

Date Received: 01/08/25 08:00

Lab Sample ID: 890-7546-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	99841	01/08/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99753	01/08/25 23:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99887	01/08/25 23:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			99947	01/09/25 00:52	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	99849	01/08/25 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/09/25 00:52	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99852	01/08/25 16:31	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99854	01/09/25 00:30	CH	EET MID

Client Sample ID: HA - 3

Date Collected: 01/07/25 13:24

Date Received: 01/08/25 08:00

Lab Sample ID: 890-7546-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99841	01/08/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	99753	01/09/25 02:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99887	01/09/25 02:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			99947	01/09/25 01:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	99849	01/08/25 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/09/25 01:08	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99852	01/08/25 16:31	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99854	01/09/25 00:47	CH	EET MID

Client Sample ID: HA - 4

Date Collected: 01/07/25 13:27

Date Received: 01/08/25 08:00

Lab Sample ID: 890-7546-10

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			5.01 g	5 mL	99901	01/09/25 09:29	EL	EET MID
Total/NA	Analysis	8021B		5000	5 mL	5 mL	99899	01/09/25 13:09	MNR	EET MID
Total/NA	Prep	5035			5.00 g	5 mL	99841	01/08/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	99753	01/09/25 02:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99887	01/09/25 13:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			99947	01/09/25 01:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99849	01/08/25 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	99794	01/09/25 01:22	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 4

Lab Sample ID: 890-7546-10

Date Collected: 01/07/25 13:27

Matrix: Solid

Date Received: 01/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	99852	01/08/25 16:31	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	99854	01/09/25 00:53	CH	EET MID

Client Sample ID: HA - 4

Lab Sample ID: 890-7546-11

Date Collected: 01/07/25 13:30

Matrix: Solid

Date Received: 01/08/25 08:00

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	99841	01/08/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	99753	01/09/25 04:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99887	01/09/25 04:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			99947	01/09/25 01:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	99849	01/08/25 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/09/25 01:52	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	99852	01/08/25 16:31	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	99854	01/09/25 01:11	CH	EET MID

Client Sample ID: HA - 4

Lab Sample ID: 890-7546-12

Date Collected: 01/07/25 13:33

Matrix: Solid

Date Received: 01/08/25 08:00

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	99841	01/08/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	99753	01/09/25 04:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99887	01/09/25 04:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			99947	01/09/25 02:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	99849	01/08/25 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/09/25 02:06	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	99852	01/08/25 16:31	CH	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	99854	01/09/25 01:17	CH	EET MID

Client Sample ID: HA - 4

Lab Sample ID: 890-7546-13

Date Collected: 01/07/25 13:36

Matrix: Solid

Date Received: 01/08/25 08:00

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	99841	01/08/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	99753	01/09/25 04:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99887	01/09/25 04:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			99947	01/09/25 02:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	99849	01/08/25 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/09/25 02:21	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99852	01/08/25 16:31	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99854	01/09/25 01:23	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Client Sample ID: HA - 5

Lab Sample ID: 890-7546-14

Date Collected: 01/07/25 13:39

Matrix: Solid

Date Received: 01/08/25 08:00

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	99901	01/09/25 09:29	EL	EET MID
Total/NA	Analysis	8021B		5000	5 mL	5 mL	99899	01/09/25 13:30	MNR	EET MID
Total/NA	Prep	5035			4.98 g	5 mL	99841	01/08/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	99753	01/09/25 05:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99887	01/09/25 13:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			99947	01/09/25 02:37	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	99849	01/08/25 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	99794	01/09/25 02:37	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	99852	01/08/25 16:31	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99854	01/09/25 01:29	CH	EET MID

Client Sample ID: HA - 5

Lab Sample ID: 890-7546-15

Date Collected: 01/07/25 13:42

Matrix: Solid

Date Received: 01/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	99841	01/08/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	99753	01/09/25 03:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99887	01/09/25 03:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			99947	01/09/25 02:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	99849	01/08/25 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/09/25 02:52	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	99853	01/08/25 16:33	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99855	01/08/25 23:00	CH	EET MID

Client Sample ID: HA - 5

Lab Sample ID: 890-7546-16

Date Collected: 01/07/25 13:45

Matrix: Solid

Date Received: 01/08/25 08:00

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	99841	01/08/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	99753	01/09/25 05:19	MNR	EET MID
Total/NA	Prep	5035			4.97 g	5 mL	99841	01/08/25 15:49	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	99753	01/09/25 09:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99887	01/09/25 09:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			99947	01/09/25 03:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	99849	01/08/25 16:26	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99794	01/09/25 03:06	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	99853	01/08/25 16:33	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99855	01/08/25 23:17	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steal Line Lateral

Job ID: 890-7546-1
SDG: Lea, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7546-1	HA - 1	Solid	01/07/25 13:00	01/08/25 08:00	0.5
890-7546-2	HA - 1	Solid	01/07/25 13:03	01/08/25 08:00	1
890-7546-3	HA - 1	Solid	01/07/25 13:06	01/08/25 08:00	4
890-7546-4	HA - 2	Solid	01/07/25 13:09	01/08/25 08:00	0.5
890-7546-5	HA - 2	Solid	01/07/25 13:12	01/08/25 08:00	1
890-7546-6	HA - 2	Solid	01/07/25 13:15	01/08/25 08:00	4
890-7546-7	HA - 3	Solid	01/07/25 13:18	01/08/25 08:00	0.5
890-7546-8	HA - 3	Solid	01/07/25 13:21	01/08/25 08:00	1
890-7546-9	HA - 3	Solid	01/07/25 13:24	01/08/25 08:00	3
890-7546-10	HA - 4	Solid	01/07/25 13:27	01/08/25 08:00	0.5
890-7546-11	HA - 4	Solid	01/07/25 13:30	01/08/25 08:00	1
890-7546-12	HA - 4	Solid	01/07/25 13:33	01/08/25 08:00	2
890-7546-13	HA - 4	Solid	01/07/25 13:36	01/08/25 08:00	4
890-7546-14	HA - 5	Solid	01/07/25 13:39	01/08/25 08:00	0.5
890-7546-15	HA - 5	Solid	01/07/25 13:42	01/08/25 08:00	1
890-7546-16	HA - 5	Solid	01/07/25 13:45	01/08/25 08:00	3.5



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 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: _____	
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Project Name:	MAVERICK Bass B - 4 in steel line lateral	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	2771	☐ Routine ☒ Rush														None: NO	DI Water: H ₂ O		
Project Location:	Lea, NM	Due Date:	24 HR 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 #:		Temp Blank:	Yes ☒ No ☐ Wet Ice:													H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT	Samples Received Intact:	Yes ☒ No ☐	Thermometer ID:	T/M/A/2												H ₃ PO ₄ : HP			
	Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor:	-0.2												NaHSO ₄ : NABIS			
	Sample Custody Seals:	Yes ☒ No ☐	Temperature Reading:	-3.2												Na ₂ S ₂ O ₃ : NaSO ₃			
	Total Containers:		Corrected Temperature:	-3.0												Zn Acetate+NaOH: Zn			
																NaOH+Ascorbic Acid: SAPC			



890-7546 Chain of Custody

Sample Identification						Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/ Comp	# of Cont	TPH -NM	Chloride	BTEX-NM	Hold	24 Hr Ru	Sample Comments												
HA-1						S	1.7.25	13:00	0.5	Grab/	1	X	X	X				Incident Number											
HA-1						S	1.7.25	13:03	1	Grab/	1	X	X	X				nAPP2500736173											
HA-1						S	1.7.25	13:06	4	Grab/	1	X	X	X															
HA-2						S	1.7.25	13:09	0.5	Grab/	1	X	X	X															
HA-2						S	1.7.25	13:12	1	Grab/	1	X	X	X															
HA-2						S	1.7.25	13:15	4	Grab/	1	X	X	X															
HA-3						S	1.7.25	13:18	0.5	Grab/	1	X	X	X															
HA-3						S	1.7.25	13:21	1	Grab/	1	X	X	X															
HA-3						S	1.7.25	13:24	3	Grab/	1	X	X	X															

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

Circle Method(s) and Metals(s) to be analyzed Hg-1631-246-1-7470-17471

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
0	<i>[Signature]</i>	<i>[Signature]</i>	17 8a			
1						
2						
3						
4						
5						
6						

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7546-1

SDG Number: Lea, NM

Login Number: 7546

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.	N/A	
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: 890-7546-1

SDG Number: Lea, NM

Login Number: 7546

List Number: 2

Creator: Rios, Minerva

List Source: Eurofins Midland

List Creation: 01/08/25 09:36 PM

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



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/9/2025 11:15:33 AM

JOB DESCRIPTION

Maverick Bass B-4in Steel Line Lateral
Lea, NM

JOB NUMBER

890-7548-1

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1089 N Canal St.
Carlsbad NM 88220



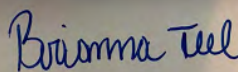
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Job Notes

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

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

Authorization



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Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steel Line Lateral

Laboratory Job ID: 890-7548-1
SDG: Lea, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	15
Lab Chronicle	17
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23

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

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1
SDG: Lea, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Earth Systems Response and Restoration
Project: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1

Job ID: 890-7548-1

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Job Narrative 890-7548-1

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 1/8/2025 8:00 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 -3.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: HA - 6 (890-7548-1), HA - 7 (890-7548-2), HA - 8 (890-7548-3) and HA - 9 (890-7548-4).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA - 7 (890-7548-2) and (890-7548-A-1-E MSD). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-99840 and analytical batch 880-99755 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.

Diesel Range Organics

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-99851 and analytical batch 880-99796 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike(MS) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-99851 and analytical batch 880-99796 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike(MS) 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 - 6 (890-7548-1), HA - 7 (890-7548-2), HA - 8 (890-7548-3), HA - 9 (890-7548-4), (LCS 880-99851/2-A) and (LCSD 880-99851/3-A). Percent recoveries are based on the amount spiked.

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

HPLC/IC

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: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1
SDG: Lea, NM

Client Sample ID: HA - 6

Lab Sample ID: 890-7548-1

Date Collected: 01/07/25 13:48

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00203	F1	0.00202		mg/Kg		01/08/25 15:47	01/08/25 23:33	1
Toluene	0.00420	F1	0.00202		mg/Kg		01/08/25 15:47	01/08/25 23:33	1
Ethylbenzene	<0.00202	U F1	0.00202		mg/Kg		01/08/25 15:47	01/08/25 23:33	1
m-Xylene & p-Xylene	<0.00404	U F2 F1	0.00404		mg/Kg		01/08/25 15:47	01/08/25 23:33	1
o-Xylene	<0.00202	U F1	0.00202		mg/Kg		01/08/25 15:47	01/08/25 23:33	1
Xylenes, Total	<0.00404	U F2 F1	0.00404		mg/Kg		01/08/25 15:47	01/08/25 23:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	01/08/25 15:47	01/08/25 23:33	1
1,4-Difluorobenzene (Surr)	96		70 - 130	01/08/25 15:47	01/08/25 23:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00623		0.00404		mg/Kg			01/08/25 23:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			01/09/25 00:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U **	50.1		mg/Kg		01/08/25 16:29	01/09/25 00:37	1
Diesel Range Organics (Over C10-C28)	<50.1	U **	50.1		mg/Kg		01/08/25 16:29	01/09/25 00:37	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/08/25 16:29	01/09/25 00:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130	01/08/25 16:29	01/09/25 00:37	1
o-Terphenyl	62	S1-	70 - 130	01/08/25 16:29	01/09/25 00:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		10.0		mg/Kg			01/08/25 23:23	1

Client Sample ID: HA - 7

Lab Sample ID: 890-7548-2

Date Collected: 01/07/25 13:51

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/08/25 15:47	01/08/25 23:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/08/25 15:47	01/08/25 23:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/08/25 15:47	01/08/25 23:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/08/25 15:47	01/08/25 23:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/08/25 15:47	01/08/25 23:54	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/08/25 15:47	01/08/25 23:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130	01/08/25 15:47	01/08/25 23:54	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1
SDG: Lea, NM

Client Sample ID: HA - 7

Lab Sample ID: 890-7548-2

Date Collected: 01/07/25 13:51

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	89		70 - 130	01/08/25 15:47	01/08/25 23:54	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			01/08/25 23:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			01/09/25 00:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U *+	50.4		mg/Kg		01/08/25 16:29	01/09/25 00:52	1
Diesel Range Organics (Over C10-C28)	<50.4	U *+	50.4		mg/Kg		01/08/25 16:29	01/09/25 00:52	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/08/25 16:29	01/09/25 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	58	S1-	70 - 130				01/08/25 16:29	01/09/25 00:52	1
o-Terphenyl	56	S1-	70 - 130				01/08/25 16:29	01/09/25 00:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.3		9.94		mg/Kg			01/08/25 23:28	1

Client Sample ID: HA - 8

Lab Sample ID: 890-7548-3

Date Collected: 01/07/25 13:54

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00462		0.00199		mg/Kg		01/08/25 15:47	01/09/25 00:14	1
Toluene	0.00762		0.00199		mg/Kg		01/08/25 15:47	01/09/25 00:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/08/25 15:47	01/09/25 00:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/08/25 15:47	01/09/25 00:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/08/25 15:47	01/09/25 00:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/08/25 15:47	01/09/25 00:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				01/08/25 15:47	01/09/25 00:14	1
1,4-Difluorobenzene (Surr)	99		70 - 130				01/08/25 15:47	01/09/25 00:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0122		0.00398		mg/Kg			01/09/25 00:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/09/25 01:08	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1
SDG: Lea, NM

Client Sample ID: HA - 8

Lab Sample ID: 890-7548-3

Date Collected: 01/07/25 13:54

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U **	50.5		mg/Kg		01/08/25 16:29	01/09/25 01:08	1
Diesel Range Organics (Over C10-C28)	<50.5	U **	50.5		mg/Kg		01/08/25 16:29	01/09/25 01:08	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/08/25 16:29	01/09/25 01:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130				01/08/25 16:29	01/09/25 01:08	1
o-Terphenyl	61	S1-	70 - 130				01/08/25 16:29	01/09/25 01:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.7		9.98		mg/Kg			01/08/25 23:34	1

Client Sample ID: HA - 9

Lab Sample ID: 890-7548-4

Date Collected: 01/07/25 13:57

Matrix: Solid

Date Received: 01/08/25 08:00

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00207		0.00200		mg/Kg		01/08/25 15:47	01/09/25 00:35	1
Toluene	0.00340		0.00200		mg/Kg		01/08/25 15:47	01/09/25 00:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/08/25 15:47	01/09/25 00:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/08/25 15:47	01/09/25 00:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/08/25 15:47	01/09/25 00:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/08/25 15:47	01/09/25 00:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				01/08/25 15:47	01/09/25 00:35	1
1,4-Difluorobenzene (Surr)	98		70 - 130				01/08/25 15:47	01/09/25 00:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00547		0.00400		mg/Kg			01/09/25 00:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/09/25 01:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U **	50.0		mg/Kg		01/08/25 16:29	01/09/25 01:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U **	50.0		mg/Kg		01/08/25 16:29	01/09/25 01:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/08/25 16:29	01/09/25 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	60	S1-	70 - 130				01/08/25 16:29	01/09/25 01:22	1
o-Terphenyl	57	S1-	70 - 130				01/08/25 16:29	01/09/25 01:22	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1
SDG: Lea, NM

Client Sample ID: HA - 9
Date Collected: 01/07/25 13:57
Date Received: 01/08/25 08:00
Sample Depth: 0.5

Lab Sample ID: 890-7548-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.7		10.0		mg/Kg			01/08/25 23:51	1

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- 14

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1
SDG: Lea, 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)
890-7548-1	HA - 6	99	96
890-7548-1 MS	HA - 6	116	94
890-7548-1 MSD	HA - 6	153 S1+	115
890-7548-2	HA - 7	145 S1+	89
890-7548-3	HA - 8	116	99
890-7548-4	HA - 9	95	98
LCS 880-99840/1-A	Lab Control Sample	118	96
LCSD 880-99840/2-A	Lab Control Sample Dup	101	95
MB 880-99776/5-A	Method Blank	98	92
MB 880-99840/5-A	Method Blank	98	92
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7548-1	HA - 6	65 S1-	62 S1-
890-7548-2	HA - 7	58 S1-	56 S1-
890-7548-3	HA - 8	64 S1-	61 S1-
890-7548-4	HA - 9	60 S1-	57 S1-
LCS 880-99851/2-A	Lab Control Sample	156 S1+	144 S1+
LCSD 880-99851/3-A	Lab Control Sample Dup	147 S1+	139 S1+
MB 880-99851/1-A	Method Blank	122	124
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1
SDG: Lea, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-99776/5-A

Matrix: Solid

Analysis Batch: 99755

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99776

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/08/25 10:12	01/08/25 12:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/08/25 10:12	01/08/25 12:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/08/25 10:12	01/08/25 12:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/08/25 10:12	01/08/25 12:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/08/25 10:12	01/08/25 12:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/08/25 10:12	01/08/25 12:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	01/08/25 10:12	01/08/25 12:12	1
1,4-Difluorobenzene (Surr)	92		70 - 130	01/08/25 10:12	01/08/25 12:12	1

Lab Sample ID: MB 880-99840/5-A

Matrix: Solid

Analysis Batch: 99755

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/08/25 15:47	01/08/25 23:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/08/25 15:47	01/08/25 23:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/08/25 15:47	01/08/25 23:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/08/25 15:47	01/08/25 23:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/08/25 15:47	01/08/25 23:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/08/25 15:47	01/08/25 23:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	01/08/25 15:47	01/08/25 23:12	1
1,4-Difluorobenzene (Surr)	92		70 - 130	01/08/25 15:47	01/08/25 23:12	1

Lab Sample ID: LCS 880-99840/1-A

Matrix: Solid

Analysis Batch: 99755

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1100		mg/Kg		110	70 - 130
Toluene	0.100	0.1172		mg/Kg		117	70 - 130
Ethylbenzene	0.100	0.1157		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	0.200	0.2219		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1215		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-99840/2-A

Matrix: Solid

Analysis Batch: 99755

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99840

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1047		mg/Kg		105	70 - 130	5	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1
SDG: Lea, NM

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

Lab Sample ID: LCSD 880-99840/2-A

Matrix: Solid

Analysis Batch: 99755

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99840

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1145		mg/Kg		115	70 - 130	2	35
Ethylbenzene	0.100	0.1135		mg/Kg		114	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2145		mg/Kg		107	70 - 130	3	35
o-Xylene	0.100	0.1171		mg/Kg		117	70 - 130	4	35

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

Lab Sample ID: 890-7548-1 MS

Matrix: Solid

Analysis Batch: 99755

Client Sample ID: HA - 6

Prep Type: Total/NA

Prep Batch: 99840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00203	F1	0.100	0.1071		mg/Kg		105	70 - 130
Toluene	0.00420	F1	0.100	0.1161		mg/Kg		112	70 - 130
Ethylbenzene	<0.00202	U F1	0.100	0.1085		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	<0.00404	U F2 F1	0.200	0.2077		mg/Kg		104	70 - 130
o-Xylene	<0.00202	U F1	0.100	0.1124		mg/Kg		112	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-7548-1 MSD

Matrix: Solid

Analysis Batch: 99755

Client Sample ID: HA - 6

Prep Type: Total/NA

Prep Batch: 99840

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.00203	F1	0.100	0.1405	F1	mg/Kg		138	70 - 130	27	35
Toluene	0.00420	F1	0.100	0.1485	F1	mg/Kg		144	70 - 130	24	35
Ethylbenzene	<0.00202	U F1	0.100	0.1517	F1	mg/Kg		152	70 - 130	33	35
m-Xylene & p-Xylene	<0.00404	U F2 F1	0.200	0.3448	F1 F2	mg/Kg		172	70 - 130	50	35
o-Xylene	<0.00202	U F1	0.100	0.1397	F1	mg/Kg		140	70 - 130	22	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

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

Lab Sample ID: MB 880-99851/1-A

Matrix: Solid

Analysis Batch: 99796

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99851

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/08/25 16:29	01/08/25 17:26	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1
SDG: Lea, NM

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

Lab Sample ID: MB 880-99851/1-A

Matrix: Solid

Analysis Batch: 99796

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 99851

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/08/25 16:29	01/08/25 17:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/08/25 16:29	01/08/25 17:26	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				01/08/25 16:29	01/08/25 17:26	1
o-Terphenyl	124		70 - 130				01/08/25 16:29	01/08/25 17:26	1

Lab Sample ID: LCS 880-99851/2-A

Matrix: Solid

Analysis Batch: 99796

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 99851

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1363	*+	mg/Kg		136	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1434	*+	mg/Kg		143	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	156	S1+	70 - 130				
o-Terphenyl	144	S1+	70 - 130				

Lab Sample ID: LCSD 880-99851/3-A

Matrix: Solid

Analysis Batch: 99796

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 99851

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1227		mg/Kg		123	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	1367	*+	mg/Kg		137	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	147	S1+	70 - 130						
o-Terphenyl	139	S1+	70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-99853/1-A

Matrix: Solid

Analysis Batch: 99855

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/08/25 22:43	1

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1
SDG: Lea, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-99853/2-A

Matrix: Solid

Analysis Batch: 99855

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	266.5		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-99853/3-A

Matrix: Solid

Analysis Batch: 99855

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	266.0		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1
SDG: Lea, NM

GC VOA

Analysis Batch: 99755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7548-1	HA - 6	Total/NA	Solid	8021B	99840
890-7548-2	HA - 7	Total/NA	Solid	8021B	99840
890-7548-3	HA - 8	Total/NA	Solid	8021B	99840
890-7548-4	HA - 9	Total/NA	Solid	8021B	99840
MB 880-99776/5-A	Method Blank	Total/NA	Solid	8021B	99776
MB 880-99840/5-A	Method Blank	Total/NA	Solid	8021B	99840
LCS 880-99840/1-A	Lab Control Sample	Total/NA	Solid	8021B	99840
LCSD 880-99840/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	99840
890-7548-1 MS	HA - 6	Total/NA	Solid	8021B	99840
890-7548-1 MSD	HA - 6	Total/NA	Solid	8021B	99840

Prep Batch: 99776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-99776/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 99840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7548-1	HA - 6	Total/NA	Solid	5035	
890-7548-2	HA - 7	Total/NA	Solid	5035	
890-7548-3	HA - 8	Total/NA	Solid	5035	
890-7548-4	HA - 9	Total/NA	Solid	5035	
MB 880-99840/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-99840/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-99840/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7548-1 MS	HA - 6	Total/NA	Solid	5035	
890-7548-1 MSD	HA - 6	Total/NA	Solid	5035	

Analysis Batch: 99891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7548-1	HA - 6	Total/NA	Solid	Total BTEX	
890-7548-2	HA - 7	Total/NA	Solid	Total BTEX	
890-7548-3	HA - 8	Total/NA	Solid	Total BTEX	
890-7548-4	HA - 9	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 99796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7548-1	HA - 6	Total/NA	Solid	8015B NM	99851
890-7548-2	HA - 7	Total/NA	Solid	8015B NM	99851
890-7548-3	HA - 8	Total/NA	Solid	8015B NM	99851
890-7548-4	HA - 9	Total/NA	Solid	8015B NM	99851
MB 880-99851/1-A	Method Blank	Total/NA	Solid	8015B NM	99851
LCS 880-99851/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	99851
LCSD 880-99851/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	99851

Prep Batch: 99851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7548-1	HA - 6	Total/NA	Solid	8015NM Prep	
890-7548-2	HA - 7	Total/NA	Solid	8015NM Prep	
890-7548-3	HA - 8	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1
SDG: Lea, NM

GC Semi VOA (Continued)

Prep Batch: 99851 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7548-4	HA - 9	Total/NA	Solid	8015NM Prep	
MB 880-99851/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-99851/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-99851/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7548-1	HA - 6	Total/NA	Solid	8015 NM	
890-7548-2	HA - 7	Total/NA	Solid	8015 NM	
890-7548-3	HA - 8	Total/NA	Solid	8015 NM	
890-7548-4	HA - 9	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 99853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7548-1	HA - 6	Soluble	Solid	DI Leach	
890-7548-2	HA - 7	Soluble	Solid	DI Leach	
890-7548-3	HA - 8	Soluble	Solid	DI Leach	
890-7548-4	HA - 9	Soluble	Solid	DI Leach	
MB 880-99853/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-99853/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-99853/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 99855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7548-1	HA - 6	Soluble	Solid	300.0	99853
890-7548-2	HA - 7	Soluble	Solid	300.0	99853
890-7548-3	HA - 8	Soluble	Solid	300.0	99853
890-7548-4	HA - 9	Soluble	Solid	300.0	99853
MB 880-99853/1-A	Method Blank	Soluble	Solid	300.0	99853
LCS 880-99853/2-A	Lab Control Sample	Soluble	Solid	300.0	99853
LCSD 880-99853/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	99853

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1
SDG: Lea, NM

Client Sample ID: HA - 6

Date Collected: 01/07/25 13:48

Date Received: 01/08/25 08:00

Lab Sample ID: 890-7548-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	99840	01/08/25 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99755	01/08/25 23:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99891	01/08/25 23:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			99950	01/09/25 00:37	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	99851	01/08/25 16:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/09/25 00:37	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	99853	01/08/25 16:33	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99855	01/08/25 23:23	CH	EET MID

Client Sample ID: HA - 7

Date Collected: 01/07/25 13:51

Date Received: 01/08/25 08:00

Lab Sample ID: 890-7548-2

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	99840	01/08/25 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99755	01/08/25 23:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99891	01/08/25 23:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			99950	01/09/25 00:52	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	99851	01/08/25 16:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/09/25 00:52	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	99853	01/08/25 16:33	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99855	01/08/25 23:28	CH	EET MID

Client Sample ID: HA - 8

Date Collected: 01/07/25 13:54

Date Received: 01/08/25 08:00

Lab Sample ID: 890-7548-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	99840	01/08/25 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99755	01/09/25 00:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99891	01/09/25 00:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			99950	01/09/25 01:08	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	99851	01/08/25 16:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/09/25 01:08	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	99853	01/08/25 16:33	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99855	01/08/25 23:34	CH	EET MID

Client Sample ID: HA - 9

Date Collected: 01/07/25 13:57

Date Received: 01/08/25 08:00

Lab Sample ID: 890-7548-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	99840	01/08/25 15:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	99755	01/09/25 00:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			99891	01/09/25 00:35	SM	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1
SDG: Lea, NM

Client Sample ID: HA - 9

Date Collected: 01/07/25 13:57

Date Received: 01/08/25 08:00

Lab Sample ID: 890-7548-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			99950	01/09/25 01:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	99851	01/08/25 16:29	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	99796	01/09/25 01:22	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	99853	01/08/25 16:33	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	99855	01/08/25 23:51	CH	EET MID

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

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Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1
SDG: Lea, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1
SDG: Lea, NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B-4in Steel Line Lateral

Job ID: 890-7548-1
SDG: Lea, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7548-1	HA - 6	Solid	01/07/25 13:48	01/08/25 08:00	0.5
890-7548-2	HA - 7	Solid	01/07/25 13:51	01/08/25 08:00	0.5
890-7548-3	HA - 8	Solid	01/07/25 13:54	01/08/25 08:00	0.5
890-7548-4	HA - 9	Solid	01/07/25 13:57	01/08/25 08:00	0.5

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Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Gilbert Moreno	Bill to: (if different)	Earth Systems R & R
Company Name:	Earth Systems R&R	Company Name:	
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City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	
Phone:	832-541-7719	Email:	gmoreno@earthsys.net

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other: _____	
--	--

Project Name:	MAVERICK Bass B - 4 in. steel line lateral	Turn Around	☐ Routine ☒ Rush	Pres. Code	ANALYSIS REQUEST																Preservative Codes		
Project Number:	2771																				None: NO	DI Water: H ₂ O	
Project Location:	Lea, NM	Due Date:	24 HR 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 #:		Temp Blank:	Yes ☒ No ☐	Wet Ice:	Yes ☒ No ☐																	H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Samples Received Intact:	Yes ☒ No ☐	Thermometer ID:	TAN 0007																H ₃ PO ₄ : HP			
	Cooler Custody Seals:	Yes ☒ No ☐	Correction Factor:	-0.2																NaHSO ₄ : NABIS			
	Sample Custody Seals:	Yes ☒ No ☐	Temperature Reading:	-3.2																Na ₂ S ₂ O ₃ : NaSO ₃			
	Total Containers:	Yes ☒ No ☐	Corrected Temperature:	-3.0																Zn Acetate+NaOH: Zn			
																						NaOH+Ascorbic Acid: SAPC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH -NM	Chloride -NM	BTEX -NM	Hold	24 Hr Rush	Sample Comments															
HA-6	S	1.7.25	13:48	0.5	Grab/	1	X	X	X		X	Incident Number nAPP2500736173															
HA-7	S	1.7.25	13:51	0.5	Grab/	1	X	X	X		X																
HA-8	S	1.7.25	13:54	0.5	Grab/	1	X	X	X		X																
HA-9	S	1.7.25	13:57	0.5	Grab/	1	X	X	X		X																



890-7548 Chain of Custody

Total	200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Si	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	St	Fl	Sn	H	V	Zn
-------	--------------	---------------	-------	-------	----------	----	----	----	----	----	---	----	----	----	----	----	----	----	----	----	----	----	---	----	----	------------------	----	----	----	----	---	---	----

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
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0	1	2	3	4	5	6
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Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7548-1

SDG Number: Lea, NM

Login Number: 7548

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.	N/A	
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: 890-7548-1

SDG Number: Lea, NM

Login Number: 7548

List Number: 2

Creator: Rios, Minerva

List Source: Eurofins Midland

List Creation: 01/08/25 09:37 PM

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



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/12/2025 5:59:00 PM

JOB DESCRIPTION

Maverick Bass B 4 in Steel Line Lateral
Lea County, NM

JOB NUMBER

890-7661-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



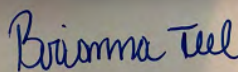
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
2/12/2025 5:59:00 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: Maverick Bass B 4 in Steel Line Lateral

Laboratory Job ID: 890-7661-1
SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	20
QC Sample Results	22
QC Association Summary	30
Lab Chronicle	35
Certification Summary	41
Method Summary	42
Sample Summary	43
Chain of Custody	44
Receipt Checklists	48

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

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1

Job ID: 890-7661-1

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Job Narrative 890-7661-1

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 2/11/2025 3:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (890-7661-1), CS-2 (890-7661-2), CS-3 (890-7661-3), CS-4 (890-7661-4), CS-5 (890-7661-5), CS-6 (890-7661-6), CS-7 (890-7661-7), CS-8 (890-7661-8), CS-9 (890-7661-9), CS-10 (890-7661-10), CS-11 (890-7661-11), CS-12 (890-7661-12), CS-13 (890-7661-13), SW-1 (890-7661-14), SW-2 (890-7661-15), SW-3 (890-7661-16) and SW-4 (890-7661-17).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-12 (890-7661-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-102562 and analytical batch 880-102543 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-102528 and analytical batch 880-102536 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.

HPLC/IC

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

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: CS-1

Lab Sample ID: 890-7661-1

Date Collected: 02/11/25 11:00

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 1.5

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		02/12/25 09:40	02/12/25 13:10	1
Toluene	0.00490		0.00200		mg/Kg		02/12/25 09:40	02/12/25 13:10	1
Ethylbenzene	0.0148		0.00200		mg/Kg		02/12/25 09:40	02/12/25 13:10	1
m-Xylene & p-Xylene	0.0188		0.00399		mg/Kg		02/12/25 09:40	02/12/25 13:10	1
o-Xylene	0.0105		0.00200		mg/Kg		02/12/25 09:40	02/12/25 13:10	1
Xylenes, Total	0.0293		0.00399		mg/Kg		02/12/25 09:40	02/12/25 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	02/12/25 09:40	02/12/25 13:10	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/12/25 09:40	02/12/25 13:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0490		0.00399		mg/Kg			02/12/25 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	232		49.8		mg/Kg			02/12/25 10:53	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	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 10:53	1
Diesel Range Organics (Over C10-C28)	232	F1	49.8		mg/Kg		02/11/25 17:13	02/12/25 10:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 10:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	02/11/25 17:13	02/12/25 10:53	1
o-Terphenyl	90		70 - 130	02/11/25 17:13	02/12/25 10:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		9.94		mg/Kg			02/12/25 12:23	1

Client Sample ID: CS-2

Lab Sample ID: 890-7661-2

Date Collected: 02/11/25 11:05

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 1.5

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		02/12/25 09:40	02/12/25 13:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/12/25 09:40	02/12/25 13:31	1
Ethylbenzene	0.00614		0.00199		mg/Kg		02/12/25 09:40	02/12/25 13:31	1
m-Xylene & p-Xylene	0.00824		0.00398		mg/Kg		02/12/25 09:40	02/12/25 13:31	1
o-Xylene	0.0124		0.00199		mg/Kg		02/12/25 09:40	02/12/25 13:31	1
Xylenes, Total	0.0206		0.00398		mg/Kg		02/12/25 09:40	02/12/25 13:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	02/12/25 09:40	02/12/25 13:31	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: CS-2

Lab Sample ID: 890-7661-2

Date Collected: 02/11/25 11:05

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 1.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130	02/12/25 09:40	02/12/25 13:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0268		0.00398		mg/Kg			02/12/25 13:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	253		49.7		mg/Kg			02/12/25 11:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/11/25 17:13	02/12/25 11:55	1
Diesel Range Organics (Over C10-C28)	253		49.7		mg/Kg		02/11/25 17:13	02/12/25 11:55	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/11/25 17:13	02/12/25 11:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				02/11/25 17:13	02/12/25 11:55	1
o-Terphenyl	96		70 - 130				02/11/25 17:13	02/12/25 11:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115		10.1		mg/Kg			02/12/25 12:29	1

Client Sample ID: CS-3

Lab Sample ID: 890-7661-3

Date Collected: 02/11/25 11:10

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 1.5

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		02/12/25 09:40	02/12/25 13:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/12/25 09:40	02/12/25 13:51	1
Ethylbenzene	0.00490		0.00199		mg/Kg		02/12/25 09:40	02/12/25 13:51	1
m-Xylene & p-Xylene	0.00759		0.00398		mg/Kg		02/12/25 09:40	02/12/25 13:51	1
o-Xylene	0.0101		0.00199		mg/Kg		02/12/25 09:40	02/12/25 13:51	1
Xylenes, Total	0.0177		0.00398		mg/Kg		02/12/25 09:40	02/12/25 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	02/12/25 09:40	02/12/25 13:51	1
1,4-Difluorobenzene (Surr)	86		70 - 130	02/12/25 09:40	02/12/25 13:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0226		0.00398		mg/Kg			02/12/25 13:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	235		49.8		mg/Kg			02/12/25 12:15	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: CS-3

Lab Sample ID: 890-7661-3

Date Collected: 02/11/25 11:10

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 1.5

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		02/11/25 17:13	02/12/25 12:15	1
Diesel Range Organics (Over C10-C28)	235		49.8		mg/Kg		02/11/25 17:13	02/12/25 12:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 12:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				02/11/25 17:13	02/12/25 12:15	1
o-Terphenyl	87		70 - 130				02/11/25 17:13	02/12/25 12:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.0		9.92		mg/Kg			02/12/25 10:18	1

Client Sample ID: CS-4

Lab Sample ID: 890-7661-4

Date Collected: 02/11/25 11:15

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200		mg/Kg		02/12/25 09:37	02/12/25 11:56	1
Toluene	<0.00200	U *	0.00200		mg/Kg		02/12/25 09:37	02/12/25 11:56	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		02/12/25 09:37	02/12/25 11:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/12/25 09:37	02/12/25 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:37	02/12/25 11:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/12/25 09:37	02/12/25 11:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				02/12/25 09:37	02/12/25 11:56	1
1,4-Difluorobenzene (Surr)	99		70 - 130				02/12/25 09:37	02/12/25 11:56	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			02/12/25 11:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/12/25 12:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/11/25 17:13	02/12/25 12:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/11/25 17:13	02/12/25 12:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/11/25 17:13	02/12/25 12:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				02/11/25 17:13	02/12/25 12:35	1
o-Terphenyl	95		70 - 130				02/11/25 17:13	02/12/25 12:35	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: CS-4

Lab Sample ID: 890-7661-4

Date Collected: 02/11/25 11:15

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 6

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.4		9.98		mg/Kg			02/12/25 10:46	1

Client Sample ID: CS-5

Lab Sample ID: 890-7661-5

Date Collected: 02/11/25 11:20

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 6

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		02/12/25 09:37	02/12/25 12:16	1
Toluene	<0.00199	U *	0.00199		mg/Kg		02/12/25 09:37	02/12/25 12:16	1
Ethylbenzene	<0.00199	U *	0.00199		mg/Kg		02/12/25 09:37	02/12/25 12:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/12/25 09:37	02/12/25 12:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/12/25 09:37	02/12/25 12:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/12/25 09:37	02/12/25 12:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				02/12/25 09:37	02/12/25 12:16	1
1,4-Difluorobenzene (Surr)	98		70 - 130				02/12/25 09:37	02/12/25 12:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/12/25 12:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	66.1		49.8		mg/Kg			02/12/25 12:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 12:56	1
Diesel Range Organics (Over C10-C28)	66.1		49.8		mg/Kg		02/11/25 17:13	02/12/25 12:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				02/11/25 17:13	02/12/25 12:56	1
o-Terphenyl	101		70 - 130				02/11/25 17:13	02/12/25 12:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.7		10.1		mg/Kg			02/12/25 10:55	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: CS-6

Lab Sample ID: 890-7661-6

Date Collected: 02/11/25 11:25

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 6

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		02/12/25 09:37	02/12/25 12:37	1
Toluene	<0.00199	U *	0.00199		mg/Kg		02/12/25 09:37	02/12/25 12:37	1
Ethylbenzene	<0.00199	U *	0.00199		mg/Kg		02/12/25 09:37	02/12/25 12:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/12/25 09:37	02/12/25 12:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/12/25 09:37	02/12/25 12:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/12/25 09:37	02/12/25 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	02/12/25 09:37	02/12/25 12:37	1
1,4-Difluorobenzene (Surr)	97		70 - 130	02/12/25 09:37	02/12/25 12:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/12/25 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/12/25 13:16	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	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 13:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 13:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	02/11/25 17:13	02/12/25 13:16	1
o-Terphenyl	107		70 - 130	02/11/25 17:13	02/12/25 13:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.9		9.94		mg/Kg			02/12/25 11:04	1

Client Sample ID: CS-7

Lab Sample ID: 890-7661-7

Date Collected: 02/11/25 11:30

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *	0.00200		mg/Kg		02/12/25 09:37	02/12/25 12:57	1
Toluene	<0.00200	U *	0.00200		mg/Kg		02/12/25 09:37	02/12/25 12:57	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		02/12/25 09:37	02/12/25 12:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/12/25 09:37	02/12/25 12:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:37	02/12/25 12:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/12/25 09:37	02/12/25 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	02/12/25 09:37	02/12/25 12:57	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: CS-7

Lab Sample ID: 890-7661-7

Date Collected: 02/11/25 11:30

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 6

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	02/12/25 09:37	02/12/25 12:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/12/25 12:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/12/25 13:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/11/25 17:13	02/12/25 13:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/11/25 17:13	02/12/25 13:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/11/25 17:13	02/12/25 13:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				02/11/25 17:13	02/12/25 13:36	1
o-Terphenyl	98		70 - 130				02/11/25 17:13	02/12/25 13:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.1		9.94		mg/Kg			02/12/25 11:13	1

Client Sample ID: CS-8

Lab Sample ID: 890-7661-8

Date Collected: 02/11/25 11:35

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 6

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		02/12/25 09:37	02/12/25 13:17	1
Toluene	<0.00199	U *	0.00199		mg/Kg		02/12/25 09:37	02/12/25 13:17	1
Ethylbenzene	<0.00199	U *	0.00199		mg/Kg		02/12/25 09:37	02/12/25 13:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/12/25 09:37	02/12/25 13:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/12/25 09:37	02/12/25 13:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/12/25 09:37	02/12/25 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	02/12/25 09:37	02/12/25 13:17	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/12/25 09:37	02/12/25 13:17	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			02/12/25 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	65.9		49.8		mg/Kg			02/12/25 13:57	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: CS-8

Lab Sample ID: 890-7661-8

Date Collected: 02/11/25 11:35

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 6

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		02/11/25 17:13	02/12/25 13:57	1
Diesel Range Organics (Over C10-C28)	65.9		49.8		mg/Kg		02/11/25 17:13	02/12/25 13:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				02/11/25 17:13	02/12/25 13:57	1
o-Terphenyl	116		70 - 130				02/11/25 17:13	02/12/25 13:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96		mg/Kg			02/12/25 11:41	1

Client Sample ID: CS-9

Lab Sample ID: 890-7661-9

Date Collected: 02/11/25 11:40

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 6

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		02/12/25 09:37	02/12/25 13:38	1
Toluene	<0.00199	U *	0.00199		mg/Kg		02/12/25 09:37	02/12/25 13:38	1
Ethylbenzene	0.00763	*	0.00199		mg/Kg		02/12/25 09:37	02/12/25 13:38	1
m-Xylene & p-Xylene	0.0104		0.00398		mg/Kg		02/12/25 09:37	02/12/25 13:38	1
o-Xylene	0.00793		0.00199		mg/Kg		02/12/25 09:37	02/12/25 13:38	1
Xylenes, Total	0.0183		0.00398		mg/Kg		02/12/25 09:37	02/12/25 13:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				02/12/25 09:37	02/12/25 13:38	1
1,4-Difluorobenzene (Surr)	106		70 - 130				02/12/25 09:37	02/12/25 13:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0260		0.00398		mg/Kg			02/12/25 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	511		49.7		mg/Kg			02/12/25 14:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		02/11/25 17:13	02/12/25 14:17	1
Diesel Range Organics (Over C10-C28)	511		49.7		mg/Kg		02/11/25 17:13	02/12/25 14:17	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/11/25 17:13	02/12/25 14:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				02/11/25 17:13	02/12/25 14:17	1
o-Terphenyl	97		70 - 130				02/11/25 17:13	02/12/25 14:17	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: CS-9

Lab Sample ID: 890-7661-9

Date Collected: 02/11/25 11:40

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 6

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.4		9.98		mg/Kg			02/12/25 11:50	1

Client Sample ID: CS-10

Lab Sample ID: 890-7661-10

Date Collected: 02/11/25 11:45

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 1.5

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		02/12/25 09:34	02/12/25 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:34	02/12/25 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:34	02/12/25 11:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/12/25 09:34	02/12/25 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:34	02/12/25 11:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/12/25 09:34	02/12/25 11:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				02/12/25 09:34	02/12/25 11:46	1
1,4-Difluorobenzene (Surr)	99		70 - 130				02/12/25 09:34	02/12/25 11:46	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			02/12/25 11:46	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			02/12/25 14:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 14:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 14:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				02/11/25 17:13	02/12/25 14:37	1
o-Terphenyl	99		70 - 130				02/11/25 17:13	02/12/25 14:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92		mg/Kg			02/12/25 11:59	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: CS-11

Lab Sample ID: 890-7661-11

Date Collected: 02/11/25 11:50

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 1.5

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		02/12/25 09:34	02/12/25 12:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/12/25 09:34	02/12/25 12:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/12/25 09:34	02/12/25 12:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/12/25 09:34	02/12/25 12:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/12/25 09:34	02/12/25 12:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/12/25 09:34	02/12/25 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	02/12/25 09:34	02/12/25 12:06	1
1,4-Difluorobenzene (Surr)	99		70 - 130	02/12/25 09:34	02/12/25 12:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/12/25 12:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/12/25 15:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 15:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 15:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	02/11/25 17:13	02/12/25 15:19	1
o-Terphenyl	86		70 - 130	02/11/25 17:13	02/12/25 15:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.6		10.1		mg/Kg			02/12/25 12:09	1

Client Sample ID: CS-12

Lab Sample ID: 890-7661-12

Date Collected: 02/11/25 11:55

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 1.5

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		02/12/25 09:34	02/12/25 12:27	1
Toluene	0.0162		0.00199		mg/Kg		02/12/25 09:34	02/12/25 12:27	1
Ethylbenzene	0.0737		0.00199		mg/Kg		02/12/25 09:34	02/12/25 12:27	1
m-Xylene & p-Xylene	0.0958		0.00398		mg/Kg		02/12/25 09:34	02/12/25 12:27	1
o-Xylene	0.0509		0.00199		mg/Kg		02/12/25 09:34	02/12/25 12:27	1
Xylenes, Total	0.147		0.00398		mg/Kg		02/12/25 09:34	02/12/25 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130	02/12/25 09:34	02/12/25 12:27	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: CS-12

Lab Sample ID: 890-7661-12

Date Collected: 02/11/25 11:55

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 1.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130	02/12/25 09:34	02/12/25 12:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.237		0.00398		mg/Kg			02/12/25 12:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	169		49.9		mg/Kg			02/12/25 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/11/25 17:13	02/12/25 15:39	1
Diesel Range Organics (Over C10-C28)	169		49.9		mg/Kg		02/11/25 17:13	02/12/25 15:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/11/25 17:13	02/12/25 15:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				02/11/25 17:13	02/12/25 15:39	1
o-Terphenyl	91		70 - 130				02/11/25 17:13	02/12/25 15:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.8		9.94		mg/Kg			02/12/25 12:18	1

Client Sample ID: CS-13

Lab Sample ID: 890-7661-13

Date Collected: 02/11/25 12:00

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 1.5

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		02/12/25 09:34	02/12/25 12:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:34	02/12/25 12:47	1
Ethylbenzene	0.00712		0.00200		mg/Kg		02/12/25 09:34	02/12/25 12:47	1
m-Xylene & p-Xylene	0.00794		0.00399		mg/Kg		02/12/25 09:34	02/12/25 12:47	1
o-Xylene	0.00855		0.00200		mg/Kg		02/12/25 09:34	02/12/25 12:47	1
Xylenes, Total	0.0165		0.00399		mg/Kg		02/12/25 09:34	02/12/25 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	02/12/25 09:34	02/12/25 12:47	1
1,4-Difluorobenzene (Surr)	96		70 - 130	02/12/25 09:34	02/12/25 12:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0236		0.00399		mg/Kg			02/12/25 12:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	139		50.0		mg/Kg			02/12/25 16:00	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: CS-13

Lab Sample ID: 890-7661-13

Date Collected: 02/11/25 12:00

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/11/25 17:13	02/12/25 16:00	1
Diesel Range Organics (Over C10-C28)	139		50.0		mg/Kg		02/11/25 17:13	02/12/25 16:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/11/25 17:13	02/12/25 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				02/11/25 17:13	02/12/25 16:00	1
o-Terphenyl	99		70 - 130				02/11/25 17:13	02/12/25 16:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/12/25 12:27	1

Client Sample ID: SW-1

Lab Sample ID: 890-7661-14

Date Collected: 02/11/25 12:05

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 0-6

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		02/12/25 09:34	02/12/25 13:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/12/25 09:34	02/12/25 13:08	1
Ethylbenzene	0.00357		0.00199		mg/Kg		02/12/25 09:34	02/12/25 13:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/12/25 09:34	02/12/25 13:08	1
o-Xylene	0.0782		0.00199		mg/Kg		02/12/25 09:34	02/12/25 13:08	1
Xylenes, Total	0.0782		0.00398		mg/Kg		02/12/25 09:34	02/12/25 13:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				02/12/25 09:34	02/12/25 13:08	1
1,4-Difluorobenzene (Surr)	102		70 - 130				02/12/25 09:34	02/12/25 13:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0818		0.00398		mg/Kg			02/12/25 13:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/12/25 16:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 16:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 16:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 16:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				02/11/25 17:13	02/12/25 16:20	1
o-Terphenyl	83		70 - 130				02/11/25 17:13	02/12/25 16:20	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: SW-1

Lab Sample ID: 890-7661-14

Date Collected: 02/11/25 12:05

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 0-6

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92		mg/Kg			02/12/25 12:54	1

Client Sample ID: SW-2

Lab Sample ID: 890-7661-15

Date Collected: 02/11/25 12:10

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 0-6

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		02/12/25 09:34	02/12/25 13:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/12/25 09:34	02/12/25 13:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/12/25 09:34	02/12/25 13:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/12/25 09:34	02/12/25 13:28	1
o-Xylene	0.00869		0.00199		mg/Kg		02/12/25 09:34	02/12/25 13:28	1
Xylenes, Total	0.00869		0.00398		mg/Kg		02/12/25 09:34	02/12/25 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				02/12/25 09:34	02/12/25 13:28	1
1,4-Difluorobenzene (Surr)	98		70 - 130				02/12/25 09:34	02/12/25 13:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00869		0.00398		mg/Kg			02/12/25 13:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/12/25 16:41	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		02/11/25 17:13	02/12/25 16:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 16:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/11/25 17:13	02/12/25 16:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				02/11/25 17:13	02/12/25 16:41	1
o-Terphenyl	86		70 - 130				02/11/25 17:13	02/12/25 16:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/12/25 13:04	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: SW-3

Lab Sample ID: 890-7661-16

Date Collected: 02/11/25 12:15

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 0-6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:34	02/12/25 13:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:34	02/12/25 13:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:34	02/12/25 13:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/12/25 09:34	02/12/25 13:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:34	02/12/25 13:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/12/25 09:34	02/12/25 13:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	02/12/25 09:34	02/12/25 13:49	1
1,4-Difluorobenzene (Surr)	97		70 - 130	02/12/25 09:34	02/12/25 13:49	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			02/12/25 13:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/12/25 18:02	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		02/11/25 17:06	02/12/25 18:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/11/25 17:06	02/12/25 18:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/11/25 17:06	02/12/25 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	02/11/25 17:06	02/12/25 18:02	1
o-Terphenyl	81		70 - 130	02/11/25 17:06	02/12/25 18:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			02/12/25 13:31	1

Client Sample ID: SW-4

Lab Sample ID: 890-7661-17

Date Collected: 02/11/25 12:20

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 0-6

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		02/12/25 09:34	02/12/25 14:09	1
Toluene	0.00433		0.00198		mg/Kg		02/12/25 09:34	02/12/25 14:09	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/12/25 09:34	02/12/25 14:09	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/12/25 09:34	02/12/25 14:09	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/12/25 09:34	02/12/25 14:09	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/12/25 09:34	02/12/25 14:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	02/12/25 09:34	02/12/25 14:09	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: SW-4

Lab Sample ID: 890-7661-17

Date Collected: 02/11/25 12:20

Matrix: Solid

Date Received: 02/11/25 15:52

Sample Depth: 0-6

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	02/12/25 09:34	02/12/25 14:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00433		0.00397		mg/Kg			02/12/25 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/12/25 18:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/11/25 17:06	02/12/25 18:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/11/25 17:06	02/12/25 18:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/11/25 17:06	02/12/25 18:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				02/11/25 17:06	02/12/25 18:22	1
o-Terphenyl	86		70 - 130				02/11/25 17:06	02/12/25 18:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.2		9.92		mg/Kg			02/12/25 13:40	1

Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-7661-1	CS-1	98	91
890-7661-2	CS-2	97	88
890-7661-3	CS-3	97	86
890-7661-4	CS-4	98	99
890-7661-4 MS	CS-4	98	94
890-7661-4 MSD	CS-4	101	94
890-7661-5	CS-5	97	98
890-7661-6	CS-6	95	97
890-7661-7	CS-7	100	98
890-7661-8	CS-8	105	96
890-7661-9	CS-9	106	106
890-7661-10	CS-10	121	99
890-7661-10 MS	CS-10	101	101
890-7661-10 MSD	CS-10	107	102
890-7661-11	CS-11	120	99
890-7661-12	CS-12	143 S1+	103
890-7661-13	CS-13	93	96
890-7661-14	SW-1	114	102
890-7661-15	SW-2	119	98
890-7661-16	SW-3	118	97
890-7661-17	SW-4	118	98
LCS 880-102560/1-A	Lab Control Sample	103	101
LCS 880-102562/1-A	Lab Control Sample	95	95
LCS 880-102563/1-A	Lab Control Sample	112	107
LCSD 880-102560/2-A	Lab Control Sample Dup	100	102
LCSD 880-102562/2-A	Lab Control Sample Dup	104	100
LCSD 880-102563/2-A	Lab Control Sample Dup	109	103
MB 880-102560/5-A	Method Blank	116	91
MB 880-102562/5-A	Method Blank	90	91
MB 880-102563/5-A	Method Blank	85	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-7661-1	CS-1	91	90
890-7661-1 MS	CS-1	84	78
890-7661-1 MSD	CS-1	80	75
890-7661-2	CS-2	95	96
890-7661-3	CS-3	87	87
890-7661-4	CS-4	91	95
890-7661-5	CS-5	103	101
890-7661-6	CS-6	105	107
890-7661-7	CS-7	94	98

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-7661-8	CS-8	113	116
890-7661-9	CS-9	101	97
890-7661-10	CS-10	99	99
890-7661-11	CS-11	86	86
890-7661-12	CS-12	96	91
890-7661-13	CS-13	103	99
890-7661-14	SW-1	83	83
890-7661-15	SW-2	87	86
890-7661-16	SW-3	80	81
890-7661-17	SW-4	83	86
LCS 880-102527/2-A	Lab Control Sample	90	92
LCS 880-102528/2-A	Lab Control Sample	96	89
LCSD 880-102527/3-A	Lab Control Sample Dup	89	94
LCSD 880-102528/3-A	Lab Control Sample Dup	90	86
MB 880-102527/1-A	Method Blank	96	111
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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
MB 880-102528/1-A	Method Blank		
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-102560/5-A

Matrix: Solid

Analysis Batch: 102542

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:34	02/12/25 11:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:34	02/12/25 11:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:34	02/12/25 11:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/12/25 09:34	02/12/25 11:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:34	02/12/25 11:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/12/25 09:34	02/12/25 11:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	02/12/25 09:34	02/12/25 11:24	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/12/25 09:34	02/12/25 11:24	1

Lab Sample ID: LCS 880-102560/1-A

Matrix: Solid

Analysis Batch: 102542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09889		mg/Kg		99	70 - 130
Toluene	0.100	0.1050		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.09287		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1953		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09953		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-102560/2-A

Matrix: Solid

Analysis Batch: 102542

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102560

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1047		mg/Kg		105	70 - 130	6	35
Toluene	0.100	0.1082		mg/Kg		108	70 - 130	3	35
Ethylbenzene	0.100	0.09868		mg/Kg		99	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2050		mg/Kg		103	70 - 130	5	35
o-Xylene	0.100	0.1030		mg/Kg		103	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-7661-10 MS

Matrix: Solid

Analysis Batch: 102542

Client Sample ID: CS-10

Prep Type: Total/NA

Prep Batch: 102560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.1028		mg/Kg		103	70 - 130
Toluene	<0.00200	U	0.0998	0.1039		mg/Kg		104	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

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

Lab Sample ID: 890-7661-10 MS

Matrix: Solid

Analysis Batch: 102542

Client Sample ID: CS-10

Prep Type: Total/NA

Prep Batch: 102560

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0998	0.09429		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1963		mg/Kg		98	70 - 130
o-Xylene	<0.00200	U	0.0998	0.09829		mg/Kg		98	70 - 130

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

Lab Sample ID: 890-7661-10 MSD

Matrix: Solid

Analysis Batch: 102542

Client Sample ID: CS-10

Prep Type: Total/NA

Prep Batch: 102560

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.1070		mg/Kg		107	70 - 130	4	35
Toluene	<0.00200	U	0.0996	0.1085		mg/Kg		109	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.0996	0.09834		mg/Kg		99	70 - 130	4	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2046		mg/Kg		103	70 - 130	4	35
o-Xylene	<0.00200	U	0.0996	0.1029		mg/Kg		103	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-102562/5-A

Matrix: Solid

Analysis Batch: 102543

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:37	02/12/25 11:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:37	02/12/25 11:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:37	02/12/25 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/12/25 09:37	02/12/25 11:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:37	02/12/25 11:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/12/25 09:37	02/12/25 11:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	02/12/25 09:37	02/12/25 11:34	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/12/25 09:37	02/12/25 11:34	1

Lab Sample ID: LCS 880-102562/1-A

Matrix: Solid

Analysis Batch: 102543

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.06786	*-	mg/Kg		68	70 - 130
Toluene	0.100	0.06864	*-	mg/Kg		69	70 - 130
Ethylbenzene	0.100	0.06827	*-	mg/Kg		68	70 - 130
m-Xylene & p-Xylene	0.200	0.1529		mg/Kg		76	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

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

Lab Sample ID: LCS 880-102562/1-A

Matrix: Solid

Analysis Batch: 102543

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.07569		mg/Kg		76	70 - 130

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

Lab Sample ID: LCSD 880-102562/2-A

Matrix: Solid

Analysis Batch: 102543

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102562

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.07763		mg/Kg		78	70 - 130	13	35
Toluene	0.100	0.07599		mg/Kg		76	70 - 130	10	35
Ethylbenzene	0.100	0.07511		mg/Kg		75	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1673		mg/Kg		84	70 - 130	9	35
o-Xylene	0.100	0.08288		mg/Kg		83	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-7661-4 MS

Matrix: Solid

Analysis Batch: 102543

Client Sample ID: CS-4

Prep Type: Total/NA

Prep Batch: 102562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U *-	0.0998	0.09977		mg/Kg		100	70 - 130
Toluene	<0.00200	U *-	0.0998	0.09118		mg/Kg		91	70 - 130
Ethylbenzene	<0.00200	U *-	0.0998	0.09425		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.200	0.2006		mg/Kg		101	70 - 130
o-Xylene	<0.00200	U	0.0998	0.09664		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-7661-4 MSD

Matrix: Solid

Analysis Batch: 102543

Client Sample ID: CS-4

Prep Type: Total/NA

Prep Batch: 102562

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U *-	0.0996	0.09876		mg/Kg		99	70 - 130	1	35
Toluene	<0.00200	U *-	0.0996	0.09533		mg/Kg		96	70 - 130	4	35
Ethylbenzene	<0.00200	U *-	0.0996	0.09888		mg/Kg		99	70 - 130	5	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2076		mg/Kg		104	70 - 130	3	35
o-Xylene	<0.00200	U	0.0996	0.1004		mg/Kg		101	70 - 130	4	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

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

Lab Sample ID: 890-7661-4 MSD

Matrix: Solid

Analysis Batch: 102543

Client Sample ID: CS-4

Prep Type: Total/NA

Prep Batch: 102562

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-102563/5-A

Matrix: Solid

Analysis Batch: 102546

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102563

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:40	02/12/25 11:47	1	
Toluene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:40	02/12/25 11:47	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:40	02/12/25 11:47	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/12/25 09:40	02/12/25 11:47	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/12/25 09:40	02/12/25 11:47	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/12/25 09:40	02/12/25 11:47	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				02/12/25 09:40	02/12/25 11:47	1	
1,4-Difluorobenzene (Surr)	91		70 - 130				02/12/25 09:40	02/12/25 11:47	1	

Lab Sample ID: LCS 880-102563/1-A

Matrix: Solid

Analysis Batch: 102546

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102563

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.08496		mg/Kg		85	70 - 130			
Toluene	0.100	0.09222		mg/Kg		92	70 - 130			
Ethylbenzene	0.100	0.09632		mg/Kg		96	70 - 130			
m-Xylene & p-Xylene	0.200	0.1901		mg/Kg		95	70 - 130			
o-Xylene	0.100	0.09384		mg/Kg		94	70 - 130			

	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	112		70 - 130							
1,4-Difluorobenzene (Surr)	107		70 - 130							

Lab Sample ID: LCSD 880-102563/2-A

Matrix: Solid

Analysis Batch: 102546

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102563

			Spike	LCSD	LCSD						RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.08237		mg/Kg		82	70 - 130	3	35
Toluene			0.100	0.08413		mg/Kg		84	70 - 130	9	35
Ethylbenzene			0.100	0.08297		mg/Kg		83	70 - 130	15	35
m-Xylene & p-Xylene			0.200	0.1723		mg/Kg		86	70 - 130	10	35
o-Xylene			0.100	0.08587		mg/Kg		86	70 - 130	9	35
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	109		70 - 130								

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-102563/2-A

Matrix: Solid

Analysis Batch: 102546

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102563

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

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

Lab Sample ID: MB 880-102527/1-A

Matrix: Solid

Analysis Batch: 102538

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102527

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/11/25 17:06	02/12/25 08:29	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/11/25 17:06	02/12/25 08:29	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/11/25 17:06	02/12/25 08:29	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane	96		70 - 130				02/11/25 17:06	02/12/25 08:29	1	
o-Terphenyl	111		70 - 130				02/11/25 17:06	02/12/25 08:29	1	

Lab Sample ID: LCS 880-102527/2-A

Matrix: Solid

Analysis Batch: 102538

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102527

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	922.2		mg/Kg		92	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	950.1		mg/Kg		95	70 - 130	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	90		70 - 130							
o-Terphenyl	92		70 - 130							

Lab Sample ID: LCSD 880-102527/3-A

Matrix: Solid

Analysis Batch: 102538

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102527

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	862.9		mg/Kg		86	70 - 130	7	20	
Diesel Range Organics (Over C10-C28)			1000	957.2		mg/Kg		96	70 - 130	1	20	
	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	89		70 - 130									
o-Terphenyl	94		70 - 130									

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-102528/1-A

Matrix: Solid

Analysis Batch: 102536

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 102528

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/11/25 17:13	02/12/25 08:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/11/25 17:13	02/12/25 08:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/11/25 17:13	02/12/25 08:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane							02/11/25 17:13	02/12/25 08:29	1
o-Terphenyl							02/11/25 17:13	02/12/25 08:29	1

Lab Sample ID: LCS 880-102528/2-A

Matrix: Solid

Analysis Batch: 102536

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 102528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	856.6		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	798.7		mg/Kg		80	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	96		70 - 130				
o-Terphenyl	89		70 - 130				

Lab Sample ID: LCSD 880-102528/3-A

Matrix: Solid

Analysis Batch: 102536

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 102528

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	894.8		mg/Kg		89	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	801.2		mg/Kg		80	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	90		70 - 130						
o-Terphenyl	86		70 - 130						

Lab Sample ID: 890-7661-1 MS

Matrix: Solid

Analysis Batch: 102536

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 102528

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	862.5		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	232	F1	999	749.5	F1	mg/Kg		52	70 - 130

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

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

Lab Sample ID: 890-7661-1 MS

Matrix: Solid

Analysis Batch: 102536

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 102528

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: 890-7661-1 MSD

Matrix: Solid

Analysis Batch: 102536

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 102528

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	880.3		mg/Kg		85	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	232	F1	999	725.0	F1	mg/Kg		49	70 - 130	3	20	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	80		70 - 130									
o-Terphenyl	75		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-102540/1-A

Matrix: Solid

Analysis Batch: 102547

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<10.0	U	10.0		mg/Kg			02/12/25 09:24	1		

Lab Sample ID: LCS 880-102540/2-A

Matrix: Solid

Analysis Batch: 102547

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	257.2		mg/Kg		103	90 - 110			

Lab Sample ID: LCSD 880-102540/3-A

Matrix: Solid

Analysis Batch: 102547

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD					%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Chloride	250	256.9		mg/Kg		103	90 - 110	0	20		

Lab Sample ID: MB 880-102541/1-A

Matrix: Solid

Analysis Batch: 102549

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<10.0	U	10.0		mg/Kg			02/12/25 09:51	1		

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-102541/2-A

Matrix: Solid

Analysis Batch: 102549

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	245.8		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-102541/3-A

Matrix: Solid

Analysis Batch: 102549

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	246.4		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-7661-3 MS

Matrix: Solid

Analysis Batch: 102549

Client Sample ID: CS-3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	93.0		248	347.9		mg/Kg		103	90 - 110

Lab Sample ID: 890-7661-3 MSD

Matrix: Solid

Analysis Batch: 102549

Client Sample ID: CS-3

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	93.0		248	349.2		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-7661-13 MS

Matrix: Solid

Analysis Batch: 102549

Client Sample ID: CS-13

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<10.0	U	250	255.8		mg/Kg		102	90 - 110

Lab Sample ID: 890-7661-13 MSD

Matrix: Solid

Analysis Batch: 102549

Client Sample ID: CS-13

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<10.0	U	250	256.5		mg/Kg		103	90 - 110	0	20

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 102542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-10	CS-10	Total/NA	Solid	8021B	102560
890-7661-11	CS-11	Total/NA	Solid	8021B	102560
890-7661-12	CS-12	Total/NA	Solid	8021B	102560
890-7661-13	CS-13	Total/NA	Solid	8021B	102560
890-7661-14	SW-1	Total/NA	Solid	8021B	102560
890-7661-15	SW-2	Total/NA	Solid	8021B	102560
890-7661-16	SW-3	Total/NA	Solid	8021B	102560
890-7661-17	SW-4	Total/NA	Solid	8021B	102560
MB 880-102560/5-A	Method Blank	Total/NA	Solid	8021B	102560
LCS 880-102560/1-A	Lab Control Sample	Total/NA	Solid	8021B	102560
LCSD 880-102560/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102560
890-7661-10 MS	CS-10	Total/NA	Solid	8021B	102560
890-7661-10 MSD	CS-10	Total/NA	Solid	8021B	102560

Analysis Batch: 102543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-4	CS-4	Total/NA	Solid	8021B	102562
890-7661-5	CS-5	Total/NA	Solid	8021B	102562
890-7661-6	CS-6	Total/NA	Solid	8021B	102562
890-7661-7	CS-7	Total/NA	Solid	8021B	102562
890-7661-8	CS-8	Total/NA	Solid	8021B	102562
890-7661-9	CS-9	Total/NA	Solid	8021B	102562
MB 880-102562/5-A	Method Blank	Total/NA	Solid	8021B	102562
LCS 880-102562/1-A	Lab Control Sample	Total/NA	Solid	8021B	102562
LCSD 880-102562/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102562
890-7661-4 MS	CS-4	Total/NA	Solid	8021B	102562
890-7661-4 MSD	CS-4	Total/NA	Solid	8021B	102562

Analysis Batch: 102546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-1	CS-1	Total/NA	Solid	8021B	102563
890-7661-2	CS-2	Total/NA	Solid	8021B	102563
890-7661-3	CS-3	Total/NA	Solid	8021B	102563
MB 880-102563/5-A	Method Blank	Total/NA	Solid	8021B	102563
LCS 880-102563/1-A	Lab Control Sample	Total/NA	Solid	8021B	102563
LCSD 880-102563/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	102563

Prep Batch: 102560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-10	CS-10	Total/NA	Solid	5035	
890-7661-11	CS-11	Total/NA	Solid	5035	
890-7661-12	CS-12	Total/NA	Solid	5035	
890-7661-13	CS-13	Total/NA	Solid	5035	
890-7661-14	SW-1	Total/NA	Solid	5035	
890-7661-15	SW-2	Total/NA	Solid	5035	
890-7661-16	SW-3	Total/NA	Solid	5035	
890-7661-17	SW-4	Total/NA	Solid	5035	
MB 880-102560/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102560/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102560/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7661-10 MS	CS-10	Total/NA	Solid	5035	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

GC VOA (Continued)

Prep Batch: 102560 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-10 MSD	CS-10	Total/NA	Solid	5035	

Prep Batch: 102562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-4	CS-4	Total/NA	Solid	5035	
890-7661-5	CS-5	Total/NA	Solid	5035	
890-7661-6	CS-6	Total/NA	Solid	5035	
890-7661-7	CS-7	Total/NA	Solid	5035	
890-7661-8	CS-8	Total/NA	Solid	5035	
890-7661-9	CS-9	Total/NA	Solid	5035	
MB 880-102562/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102562/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102562/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7661-4 MS	CS-4	Total/NA	Solid	5035	
890-7661-4 MSD	CS-4	Total/NA	Solid	5035	

Prep Batch: 102563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-1	CS-1	Total/NA	Solid	5035	
890-7661-2	CS-2	Total/NA	Solid	5035	
890-7661-3	CS-3	Total/NA	Solid	5035	
MB 880-102563/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-102563/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-102563/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 102612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-1	CS-1	Total/NA	Solid	Total BTEX	
890-7661-2	CS-2	Total/NA	Solid	Total BTEX	
890-7661-3	CS-3	Total/NA	Solid	Total BTEX	
890-7661-4	CS-4	Total/NA	Solid	Total BTEX	
890-7661-5	CS-5	Total/NA	Solid	Total BTEX	
890-7661-6	CS-6	Total/NA	Solid	Total BTEX	
890-7661-7	CS-7	Total/NA	Solid	Total BTEX	
890-7661-8	CS-8	Total/NA	Solid	Total BTEX	
890-7661-9	CS-9	Total/NA	Solid	Total BTEX	
890-7661-10	CS-10	Total/NA	Solid	Total BTEX	
890-7661-11	CS-11	Total/NA	Solid	Total BTEX	
890-7661-12	CS-12	Total/NA	Solid	Total BTEX	
890-7661-13	CS-13	Total/NA	Solid	Total BTEX	
890-7661-14	SW-1	Total/NA	Solid	Total BTEX	
890-7661-15	SW-2	Total/NA	Solid	Total BTEX	
890-7661-16	SW-3	Total/NA	Solid	Total BTEX	
890-7661-17	SW-4	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 102527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-16	SW-3	Total/NA	Solid	8015NM Prep	
890-7661-17	SW-4	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 102527 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-102527/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102527/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102527/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 102528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-1	CS-1	Total/NA	Solid	8015NM Prep	
890-7661-2	CS-2	Total/NA	Solid	8015NM Prep	
890-7661-3	CS-3	Total/NA	Solid	8015NM Prep	
890-7661-4	CS-4	Total/NA	Solid	8015NM Prep	
890-7661-5	CS-5	Total/NA	Solid	8015NM Prep	
890-7661-6	CS-6	Total/NA	Solid	8015NM Prep	
890-7661-7	CS-7	Total/NA	Solid	8015NM Prep	
890-7661-8	CS-8	Total/NA	Solid	8015NM Prep	
890-7661-9	CS-9	Total/NA	Solid	8015NM Prep	
890-7661-10	CS-10	Total/NA	Solid	8015NM Prep	
890-7661-11	CS-11	Total/NA	Solid	8015NM Prep	
890-7661-12	CS-12	Total/NA	Solid	8015NM Prep	
890-7661-13	CS-13	Total/NA	Solid	8015NM Prep	
890-7661-14	SW-1	Total/NA	Solid	8015NM Prep	
890-7661-15	SW-2	Total/NA	Solid	8015NM Prep	
MB 880-102528/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-102528/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-102528/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7661-1 MS	CS-1	Total/NA	Solid	8015NM Prep	
890-7661-1 MSD	CS-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 102536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-1	CS-1	Total/NA	Solid	8015B NM	102528
890-7661-2	CS-2	Total/NA	Solid	8015B NM	102528
890-7661-3	CS-3	Total/NA	Solid	8015B NM	102528
890-7661-4	CS-4	Total/NA	Solid	8015B NM	102528
890-7661-5	CS-5	Total/NA	Solid	8015B NM	102528
890-7661-6	CS-6	Total/NA	Solid	8015B NM	102528
890-7661-7	CS-7	Total/NA	Solid	8015B NM	102528
890-7661-8	CS-8	Total/NA	Solid	8015B NM	102528
890-7661-9	CS-9	Total/NA	Solid	8015B NM	102528
890-7661-10	CS-10	Total/NA	Solid	8015B NM	102528
890-7661-11	CS-11	Total/NA	Solid	8015B NM	102528
890-7661-12	CS-12	Total/NA	Solid	8015B NM	102528
890-7661-13	CS-13	Total/NA	Solid	8015B NM	102528
890-7661-14	SW-1	Total/NA	Solid	8015B NM	102528
890-7661-15	SW-2	Total/NA	Solid	8015B NM	102528
MB 880-102528/1-A	Method Blank	Total/NA	Solid	8015B NM	102528
LCS 880-102528/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102528
LCSD 880-102528/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102528
890-7661-1 MS	CS-1	Total/NA	Solid	8015B NM	102528
890-7661-1 MSD	CS-1	Total/NA	Solid	8015B NM	102528

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

GC Semi VOA

Analysis Batch: 102538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-16	SW-3	Total/NA	Solid	8015B NM	102527
890-7661-17	SW-4	Total/NA	Solid	8015B NM	102527
MB 880-102527/1-A	Method Blank	Total/NA	Solid	8015B NM	102527
LCS 880-102527/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	102527
LCSD 880-102527/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	102527

Analysis Batch: 102638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-1	CS-1	Total/NA	Solid	8015 NM	
890-7661-2	CS-2	Total/NA	Solid	8015 NM	
890-7661-3	CS-3	Total/NA	Solid	8015 NM	
890-7661-4	CS-4	Total/NA	Solid	8015 NM	
890-7661-5	CS-5	Total/NA	Solid	8015 NM	
890-7661-6	CS-6	Total/NA	Solid	8015 NM	
890-7661-7	CS-7	Total/NA	Solid	8015 NM	
890-7661-8	CS-8	Total/NA	Solid	8015 NM	
890-7661-9	CS-9	Total/NA	Solid	8015 NM	
890-7661-10	CS-10	Total/NA	Solid	8015 NM	
890-7661-11	CS-11	Total/NA	Solid	8015 NM	
890-7661-12	CS-12	Total/NA	Solid	8015 NM	
890-7661-13	CS-13	Total/NA	Solid	8015 NM	
890-7661-14	SW-1	Total/NA	Solid	8015 NM	
890-7661-15	SW-2	Total/NA	Solid	8015 NM	
890-7661-16	SW-3	Total/NA	Solid	8015 NM	
890-7661-17	SW-4	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 102540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-1	CS-1	Soluble	Solid	DI Leach	
890-7661-2	CS-2	Soluble	Solid	DI Leach	
MB 880-102540/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102540/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102540/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 102541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-3	CS-3	Soluble	Solid	DI Leach	
890-7661-4	CS-4	Soluble	Solid	DI Leach	
890-7661-5	CS-5	Soluble	Solid	DI Leach	
890-7661-6	CS-6	Soluble	Solid	DI Leach	
890-7661-7	CS-7	Soluble	Solid	DI Leach	
890-7661-8	CS-8	Soluble	Solid	DI Leach	
890-7661-9	CS-9	Soluble	Solid	DI Leach	
890-7661-10	CS-10	Soluble	Solid	DI Leach	
890-7661-11	CS-11	Soluble	Solid	DI Leach	
890-7661-12	CS-12	Soluble	Solid	DI Leach	
890-7661-13	CS-13	Soluble	Solid	DI Leach	
890-7661-14	SW-1	Soluble	Solid	DI Leach	
890-7661-15	SW-2	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 102541 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-16	SW-3	Soluble	Solid	DI Leach	
890-7661-17	SW-4	Soluble	Solid	DI Leach	
MB 880-102541/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-102541/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-102541/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7661-3 MS	CS-3	Soluble	Solid	DI Leach	
890-7661-3 MSD	CS-3	Soluble	Solid	DI Leach	
890-7661-13 MS	CS-13	Soluble	Solid	DI Leach	
890-7661-13 MSD	CS-13	Soluble	Solid	DI Leach	

Analysis Batch: 102547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-1	CS-1	Soluble	Solid	300.0	102540
890-7661-2	CS-2	Soluble	Solid	300.0	102540
MB 880-102540/1-A	Method Blank	Soluble	Solid	300.0	102540
LCS 880-102540/2-A	Lab Control Sample	Soluble	Solid	300.0	102540
LCSD 880-102540/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102540

Analysis Batch: 102549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7661-3	CS-3	Soluble	Solid	300.0	102541
890-7661-4	CS-4	Soluble	Solid	300.0	102541
890-7661-5	CS-5	Soluble	Solid	300.0	102541
890-7661-6	CS-6	Soluble	Solid	300.0	102541
890-7661-7	CS-7	Soluble	Solid	300.0	102541
890-7661-8	CS-8	Soluble	Solid	300.0	102541
890-7661-9	CS-9	Soluble	Solid	300.0	102541
890-7661-10	CS-10	Soluble	Solid	300.0	102541
890-7661-11	CS-11	Soluble	Solid	300.0	102541
890-7661-12	CS-12	Soluble	Solid	300.0	102541
890-7661-13	CS-13	Soluble	Solid	300.0	102541
890-7661-14	SW-1	Soluble	Solid	300.0	102541
890-7661-15	SW-2	Soluble	Solid	300.0	102541
890-7661-16	SW-3	Soluble	Solid	300.0	102541
890-7661-17	SW-4	Soluble	Solid	300.0	102541
MB 880-102541/1-A	Method Blank	Soluble	Solid	300.0	102541
LCS 880-102541/2-A	Lab Control Sample	Soluble	Solid	300.0	102541
LCSD 880-102541/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	102541
890-7661-3 MS	CS-3	Soluble	Solid	300.0	102541
890-7661-3 MSD	CS-3	Soluble	Solid	300.0	102541
890-7661-13 MS	CS-13	Soluble	Solid	300.0	102541
890-7661-13 MSD	CS-13	Soluble	Solid	300.0	102541

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: CS-1

Lab Sample ID: 890-7661-1

Date Collected: 02/11/25 11:00

Matrix: Solid

Date Received: 02/11/25 15:52

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	102563	02/12/25 09:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102546	02/12/25 13:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102612	02/12/25 13:10	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102638	02/12/25 10:53	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102528	02/11/25 17:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102536	02/12/25 10:53	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102540	02/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102547	02/12/25 12:23	CH	EET MID

Client Sample ID: CS-2

Lab Sample ID: 890-7661-2

Date Collected: 02/11/25 11:05

Matrix: Solid

Date Received: 02/11/25 15:52

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	102563	02/12/25 09:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102546	02/12/25 13:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102612	02/12/25 13:31	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102638	02/12/25 11:55	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102528	02/11/25 17:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102536	02/12/25 11:55	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102540	02/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102547	02/12/25 12:29	CH	EET MID

Client Sample ID: CS-3

Lab Sample ID: 890-7661-3

Date Collected: 02/11/25 11:10

Matrix: Solid

Date Received: 02/11/25 15:52

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	102563	02/12/25 09:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102546	02/12/25 13:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102612	02/12/25 13:51	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102638	02/12/25 12:15	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102528	02/11/25 17:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102536	02/12/25 12:15	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	102541	02/12/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102549	02/12/25 10:18	CH	EET MID

Client Sample ID: CS-4

Lab Sample ID: 890-7661-4

Date Collected: 02/11/25 11:15

Matrix: Solid

Date Received: 02/11/25 15:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	102562	02/12/25 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102543	02/12/25 11:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102612	02/12/25 11:56	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: CS-4

Lab Sample ID: 890-7661-4

Date Collected: 02/11/25 11:15

Matrix: Solid

Date Received: 02/11/25 15:52

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			102638	02/12/25 12:35	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102528	02/11/25 17:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102536	02/12/25 12:35	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	102541	02/12/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102549	02/12/25 10:46	CH	EET MID

Client Sample ID: CS-5

Lab Sample ID: 890-7661-5

Date Collected: 02/11/25 11:20

Matrix: Solid

Date Received: 02/11/25 15:52

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	102562	02/12/25 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102543	02/12/25 12:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102612	02/12/25 12:16	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102638	02/12/25 12:56	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102528	02/11/25 17:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102536	02/12/25 12:56	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102541	02/12/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102549	02/12/25 10:55	CH	EET MID

Client Sample ID: CS-6

Lab Sample ID: 890-7661-6

Date Collected: 02/11/25 11:25

Matrix: Solid

Date Received: 02/11/25 15:52

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	102562	02/12/25 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102543	02/12/25 12:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102612	02/12/25 12:37	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102638	02/12/25 13:16	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102528	02/11/25 17:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102536	02/12/25 13:16	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102541	02/12/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102549	02/12/25 11:04	CH	EET MID

Client Sample ID: CS-7

Lab Sample ID: 890-7661-7

Date Collected: 02/11/25 11:30

Matrix: Solid

Date Received: 02/11/25 15:52

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	102562	02/12/25 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102543	02/12/25 12:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102612	02/12/25 12:57	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102638	02/12/25 13:36	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	102528	02/11/25 17:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102536	02/12/25 13:36	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: CS-7

Lab Sample ID: 890-7661-7

Date Collected: 02/11/25 11:30

Matrix: Solid

Date Received: 02/11/25 15:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	102541	02/12/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102549	02/12/25 11:13	CH	EET MID

Client Sample ID: CS-8

Lab Sample ID: 890-7661-8

Date Collected: 02/11/25 11:35

Matrix: Solid

Date Received: 02/11/25 15:52

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	102562	02/12/25 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102543	02/12/25 13:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102612	02/12/25 13:17	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102638	02/12/25 13:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102528	02/11/25 17:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102536	02/12/25 13:57	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	102541	02/12/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102549	02/12/25 11:41	CH	EET MID

Client Sample ID: CS-9

Lab Sample ID: 890-7661-9

Date Collected: 02/11/25 11:40

Matrix: Solid

Date Received: 02/11/25 15:52

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	102562	02/12/25 09:37	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102543	02/12/25 13:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102612	02/12/25 13:38	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102638	02/12/25 14:17	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	102528	02/11/25 17:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102536	02/12/25 14:17	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	102541	02/12/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102549	02/12/25 11:50	CH	EET MID

Client Sample ID: CS-10

Lab Sample ID: 890-7661-10

Date Collected: 02/11/25 11:45

Matrix: Solid

Date Received: 02/11/25 15:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	102560	02/12/25 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102542	02/12/25 11:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102612	02/12/25 11:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102638	02/12/25 14:37	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102528	02/11/25 17:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102536	02/12/25 14:37	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	102541	02/12/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102549	02/12/25 11:59	CH	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: CS-11

Lab Sample ID: 890-7661-11

Date Collected: 02/11/25 11:50

Matrix: Solid

Date Received: 02/11/25 15:52

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	102560	02/12/25 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102542	02/12/25 12:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102612	02/12/25 12:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102638	02/12/25 15:19	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102528	02/11/25 17:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102536	02/12/25 15:19	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	102541	02/12/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102549	02/12/25 12:09	CH	EET MID

Client Sample ID: CS-12

Lab Sample ID: 890-7661-12

Date Collected: 02/11/25 11:55

Matrix: Solid

Date Received: 02/11/25 15:52

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	102560	02/12/25 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102542	02/12/25 12:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102612	02/12/25 12:27	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102638	02/12/25 15:39	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102528	02/11/25 17:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102536	02/12/25 15:39	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	102541	02/12/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102549	02/12/25 12:18	CH	EET MID

Client Sample ID: CS-13

Lab Sample ID: 890-7661-13

Date Collected: 02/11/25 12:00

Matrix: Solid

Date Received: 02/11/25 15:52

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	102560	02/12/25 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102542	02/12/25 12:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102612	02/12/25 12:47	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102638	02/12/25 16:00	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	102528	02/11/25 17:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102536	02/12/25 16:00	AJ	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	102541	02/12/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102549	02/12/25 12:27	CH	EET MID

Client Sample ID: SW-1

Lab Sample ID: 890-7661-14

Date Collected: 02/11/25 12:05

Matrix: Solid

Date Received: 02/11/25 15:52

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	102560	02/12/25 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102542	02/12/25 13:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102612	02/12/25 13:08	AJ	EET MID

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Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: SW-1

Lab Sample ID: 890-7661-14

Date Collected: 02/11/25 12:05

Matrix: Solid

Date Received: 02/11/25 15:52

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			102638	02/12/25 16:20	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	102528	02/11/25 17:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102536	02/12/25 16:20	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	102541	02/12/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102549	02/12/25 12:54	CH	EET MID

Client Sample ID: SW-2

Lab Sample ID: 890-7661-15

Date Collected: 02/11/25 12:10

Matrix: Solid

Date Received: 02/11/25 15:52

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	102560	02/12/25 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102542	02/12/25 13:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102612	02/12/25 13:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102638	02/12/25 16:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102528	02/11/25 17:13	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102536	02/12/25 16:41	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	102541	02/12/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102549	02/12/25 13:04	CH	EET MID

Client Sample ID: SW-3

Lab Sample ID: 890-7661-16

Date Collected: 02/11/25 12:15

Matrix: Solid

Date Received: 02/11/25 15:52

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	102560	02/12/25 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102542	02/12/25 13:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102612	02/12/25 13:49	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102638	02/12/25 18:02	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	102527	02/11/25 17:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102538	02/12/25 18:02	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	102541	02/12/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102549	02/12/25 13:31	CH	EET MID

Client Sample ID: SW-4

Lab Sample ID: 890-7661-17

Date Collected: 02/11/25 12:20

Matrix: Solid

Date Received: 02/11/25 15:52

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	102560	02/12/25 09:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	102542	02/12/25 14:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			102612	02/12/25 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			102638	02/12/25 18:22	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	102527	02/11/25 17:06	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	102538	02/12/25 18:22	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Client Sample ID: SW-4
Date Collected: 02/11/25 12:20
Date Received: 02/11/25 15:52

Lab Sample ID: 890-7661-17
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	102541	02/12/25 07:58	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	102549	02/12/25 13:40	CH	EET MID

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

- 1
- 2
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Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B 4 in Steel Line Lateral

Job ID: 890-7661-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7661-1	CS-1	Solid	02/11/25 11:00	02/11/25 15:52	1.5
890-7661-2	CS-2	Solid	02/11/25 11:05	02/11/25 15:52	1.5
890-7661-3	CS-3	Solid	02/11/25 11:10	02/11/25 15:52	1.5
890-7661-4	CS-4	Solid	02/11/25 11:15	02/11/25 15:52	6
890-7661-5	CS-5	Solid	02/11/25 11:20	02/11/25 15:52	6
890-7661-6	CS-6	Solid	02/11/25 11:25	02/11/25 15:52	6
890-7661-7	CS-7	Solid	02/11/25 11:30	02/11/25 15:52	6
890-7661-8	CS-8	Solid	02/11/25 11:35	02/11/25 15:52	6
890-7661-9	CS-9	Solid	02/11/25 11:40	02/11/25 15:52	6
890-7661-10	CS-10	Solid	02/11/25 11:45	02/11/25 15:52	1.5
890-7661-11	CS-11	Solid	02/11/25 11:50	02/11/25 15:52	1.5
890-7661-12	CS-12	Solid	02/11/25 11:55	02/11/25 15:52	1.5
890-7661-13	CS-13	Solid	02/11/25 12:00	02/11/25 15:52	1.5
890-7661-14	SW-1	Solid	02/11/25 12:05	02/11/25 15:52	0-6
890-7661-15	SW-2	Solid	02/11/25 12:10	02/11/25 15:52	0-6
890-7661-16	SW-3	Solid	02/11/25 12:15	02/11/25 15:52	0-6
890-7661-17	SW-4	Solid	02/11/25 12:20	02/11/25 15:52	0-6



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/21/2025 3:57:33 PM Revision 1

JOB DESCRIPTION

Maverick Bass B -4 in Steel Line Lateral
Lea County, NM

JOB NUMBER

890-7697-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



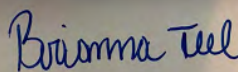
Eurofins Carlsbad

Job Notes

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

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

Authorization



Authorized for release by
Brianna Teel, Project Manager
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(432)704-5440

Generated
2/21/2025 3:57:33 PM
Revision 1

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Laboratory Job ID: 890-7697-1
SDG: Lea County, NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	17
Lab Chronicle	19
Certification Summary	21
Method Summary	22
Sample Summary	23
Chain of Custody	24
Receipt Checklists	25

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
SDG: Lea County, NM

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
*1	LCS/LCSD RPD exceeds control limits.
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
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: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1

Job ID: 890-7697-1

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Job Narrative 890-7697-1

REVISION

The report being provided is a revision of the original report sent on 2/21/2025. The report (revision 1) is being revised due to Revised to correct sample 004 (CS-9) sample depth.

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 2/20/2025 3:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (890-7697-1), CS-2 (890-7697-2), CS-3 (890-7697-3), CS-9 (890-7697-4), CS-12 (890-7697-5) and CS-13 (890-7697-6).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS-1 (890-7697-1), CS-2 (890-7697-2), CS-3 (890-7697-3), CS-9 (890-7697-4), CS-12 (890-7697-5) and CS-13 (890-7697-6). 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 880-103318 and analytical batch 880-103131 was outside the upper control limits.

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-103327 and analytical batch 880-103292 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-1 (890-7697-1), CS-2 (890-7697-2), CS-3 (890-7697-3), CS-9 (890-7697-4), CS-12 (890-7697-5), CS-13 (890-7697-6) and (LCSD 880-103327/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-103327 and analytical batch 880-103292 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-103327 and analytical batch 880-103292 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

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

HPLC/IC

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

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Case Narrative

Client: Earth Systems Response and Restoration
Project: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1

Job ID: 890-7697-1 (Continued)

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

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
SDG: Lea County, NM

Client Sample ID: CS-1

Lab Sample ID: 890-7697-1

Date Collected: 02/20/25 09:30

Matrix: Solid

Date Received: 02/20/25 15:14

Sample Depth: 3

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		02/20/25 17:00	02/21/25 05:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/25 17:00	02/21/25 05:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/25 17:00	02/21/25 05:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/25 17:00	02/21/25 05:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/25 17:00	02/21/25 05:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/25 17:00	02/21/25 05:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	02/20/25 17:00	02/21/25 05:08	1
1,4-Difluorobenzene (Surr)	112		70 - 130	02/20/25 17:00	02/21/25 05:08	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			02/21/25 05:08	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			02/20/25 22:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1 F1	50.0		mg/Kg		02/20/25 20:42	02/20/25 22:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1 F1	50.0		mg/Kg		02/20/25 20:42	02/20/25 22:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/25 20:42	02/20/25 22:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	02/20/25 20:42	02/20/25 22:24	1
o-Terphenyl	68	S1-	70 - 130	02/20/25 20:42	02/20/25 22:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.94	U	9.94		mg/Kg			02/21/25 09:13	1

Client Sample ID: CS-2

Lab Sample ID: 890-7697-2

Date Collected: 02/20/25 09:35

Matrix: Solid

Date Received: 02/20/25 15:14

Sample Depth: 3

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		02/20/25 17:00	02/21/25 05:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 17:00	02/21/25 05:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 17:00	02/21/25 05:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/20/25 17:00	02/21/25 05:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 17:00	02/21/25 05:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/20/25 17:00	02/21/25 05:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	02/20/25 17:00	02/21/25 05:28	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
SDG: Lea County, NM

Client Sample ID: CS-2

Lab Sample ID: 890-7697-2

Date Collected: 02/20/25 09:35

Matrix: Solid

Date Received: 02/20/25 15:14

Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130	02/20/25 17:00	02/21/25 05:28	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			02/21/25 05:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/20/25 23:12	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 *1	49.7		mg/Kg		02/20/25 20:42	02/20/25 23:12	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		02/20/25 20:42	02/20/25 23:12	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/20/25 20:42	02/20/25 23:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				02/20/25 20:42	02/20/25 23:12	1
o-Terphenyl	68	S1-	70 - 130				02/20/25 20:42	02/20/25 23:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92		mg/Kg			02/21/25 09:36	1

Client Sample ID: CS-3

Lab Sample ID: 890-7697-3

Date Collected: 02/20/25 09:40

Matrix: Solid

Date Received: 02/20/25 15:14

Sample Depth: 3

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		02/20/25 17:00	02/21/25 05:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 17:00	02/21/25 05:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 17:00	02/21/25 05:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/20/25 17:00	02/21/25 05:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 17:00	02/21/25 05:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/20/25 17:00	02/21/25 05:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	02/20/25 17:00	02/21/25 05:48	1
1,4-Difluorobenzene (Surr)	108		70 - 130	02/20/25 17:00	02/21/25 05:48	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			02/21/25 05:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/20/25 23:28	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
SDG: Lea County, NM

Client Sample ID: CS-3

Date Collected: 02/20/25 09:40

Date Received: 02/20/25 15:14

Sample Depth: 3

Lab Sample ID: 890-7697-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7		mg/Kg		02/20/25 20:42	02/20/25 23:28	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		02/20/25 20:42	02/20/25 23:28	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		02/20/25 20:42	02/20/25 23:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				02/20/25 20:42	02/20/25 23:28	1
o-Terphenyl	69	S1-	70 - 130				02/20/25 20:42	02/20/25 23:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/21/25 09:43	1

Client Sample ID: CS-9

Date Collected: 02/20/25 09:45

Date Received: 02/20/25 15:14

Sample Depth: 8

Lab Sample ID: 890-7697-4

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/20/25 17:00	02/21/25 06:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/25 17:00	02/21/25 06:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/25 17:00	02/21/25 06:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/25 17:00	02/21/25 06:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/25 17:00	02/21/25 06:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/25 17:00	02/21/25 06:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				02/20/25 17:00	02/21/25 06:09	1
1,4-Difluorobenzene (Surr)	105		70 - 130				02/20/25 17:00	02/21/25 06:09	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			02/21/25 06:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/20/25 23:43	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 *1	49.8		mg/Kg		02/20/25 20:42	02/20/25 23:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		02/20/25 20:42	02/20/25 23:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/20/25 20:42	02/20/25 23:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				02/20/25 20:42	02/20/25 23:43	1
o-Terphenyl	65	S1-	70 - 130				02/20/25 20:42	02/20/25 23:43	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
SDG: Lea County, NM

Client Sample ID: CS-9

Date Collected: 02/20/25 09:45

Date Received: 02/20/25 15:14

Sample Depth: 8

Lab Sample ID: 890-7697-4

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96		mg/Kg			02/21/25 09:50	1

Client Sample ID: CS-12

Date Collected: 02/20/25 09:50

Date Received: 02/20/25 15:14

Sample Depth: 3

Lab Sample ID: 890-7697-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/20/25 17:00	02/21/25 06:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/20/25 17:00	02/21/25 06:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/20/25 17:00	02/21/25 06:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/20/25 17:00	02/21/25 06:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/20/25 17:00	02/21/25 06:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/20/25 17:00	02/21/25 06:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	255	S1+	70 - 130				02/20/25 17:00	02/21/25 06:29	1
1,4-Difluorobenzene (Surr)	113		70 - 130				02/20/25 17:00	02/21/25 06:29	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			02/21/25 06:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/20/25 23:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		02/20/25 20:42	02/20/25 23:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/20/25 20:42	02/20/25 23:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/25 20:42	02/20/25 23:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				02/20/25 20:42	02/20/25 23:59	1
o-Terphenyl	65	S1-	70 - 130				02/20/25 20:42	02/20/25 23:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98		mg/Kg			02/21/25 09:58	1

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Client Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
SDG: Lea County, NM

Client Sample ID: CS-13

Lab Sample ID: 890-7697-6

Date Collected: 02/20/25 09:55

Matrix: Solid

Date Received: 02/20/25 15:14

Sample Depth: 3

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		02/20/25 17:00	02/21/25 06:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 17:00	02/21/25 06:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 17:00	02/21/25 06:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/20/25 17:00	02/21/25 06:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 17:00	02/21/25 06:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/20/25 17:00	02/21/25 06:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	153	S1+	70 - 130	02/20/25 17:00	02/21/25 06:50	1
1,4-Difluorobenzene (Surr)	110		70 - 130	02/20/25 17:00	02/21/25 06:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/21/25 06:50	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			02/21/25 00:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		02/20/25 20:42	02/21/25 00:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/20/25 20:42	02/21/25 00:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/25 20:42	02/21/25 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	02/20/25 20:42	02/21/25 00:14	1
o-Terphenyl	64	S1-	70 - 130	02/20/25 20:42	02/21/25 00:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			02/21/25 10:20	1

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Surrogate Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
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)
890-7697-1	CS-1	136 S1+	112
890-7697-2	CS-2	138 S1+	108
890-7697-3	CS-3	141 S1+	108
890-7697-4	CS-9	131 S1+	105
890-7697-5	CS-12	255 S1+	113
890-7697-6	CS-13	153 S1+	110
LCS 880-103318/1-A	Lab Control Sample	113	92
LCSD 880-103318/2-A	Lab Control Sample Dup	123	97
MB 880-103263/5-A	Method Blank	157 S1+	95
MB 880-103318/5-A	Method Blank	224 S1+	125

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)
890-7697-1	CS-1	73	68 S1-
890-7697-1 MS	CS-1	70	72
890-7697-1 MSD	CS-1	70	72
890-7697-2	CS-2	74	68 S1-
890-7697-3	CS-3	74	69 S1-
890-7697-4	CS-9	70	65 S1-
890-7697-5	CS-12	71	65 S1-
890-7697-6	CS-13	71	64 S1-
LCS 880-103327/2-A	Lab Control Sample	106	92
LCSD 880-103327/3-A	Lab Control Sample Dup	128	136 S1+
MB 880-103327/1-A	Method Blank	146 S1+	137 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-103263/5-A

Matrix: Solid

Analysis Batch: 103131

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 103263

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 09:17	02/20/25 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 09:17	02/20/25 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 09:17	02/20/25 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/20/25 09:17	02/20/25 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 09:17	02/20/25 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/25 09:17	02/20/25 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130	02/20/25 09:17	02/20/25 11:49	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/20/25 09:17	02/20/25 11:49	1

Lab Sample ID: MB 880-103318/5-A

Matrix: Solid

Analysis Batch: 103131

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 103318

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/20/25 16:49	02/20/25 23:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/20/25 16:49	02/20/25 23:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/20/25 16:49	02/20/25 23:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/20/25 16:49	02/20/25 23:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/20/25 16:49	02/20/25 23:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/20/25 16:49	02/20/25 23:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	224	S1+	70 - 130	02/20/25 16:49	02/20/25 23:25	1
1,4-Difluorobenzene (Surr)	125		70 - 130	02/20/25 16:49	02/20/25 23:25	1

Lab Sample ID: LCS 880-103318/1-A

Matrix: Solid

Analysis Batch: 103131

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 103318

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09736		mg/Kg		97	70 - 130
Toluene	0.100	0.09318		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.1020		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2237		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1106		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-103318/2-A

Matrix: Solid

Analysis Batch: 103131

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 103318

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1010		mg/Kg		101	70 - 130	4	35

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-103318/2-A

Matrix: Solid

Analysis Batch: 103131

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 103318

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1004		mg/Kg		100	70 - 130	7	35
Ethylbenzene	0.100	0.1075		mg/Kg		108	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2427		mg/Kg		121	70 - 130	8	35
o-Xylene	0.100	0.1193		mg/Kg		119	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-103327/1-A

Matrix: Solid

Analysis Batch: 103292

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 103327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/20/25 20:42	02/20/25 21:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/20/25 20:42	02/20/25 21:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/20/25 20:42	02/20/25 21:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130	02/20/25 20:42	02/20/25 21:38	1
o-Terphenyl	137	S1+	70 - 130	02/20/25 20:42	02/20/25 21:38	1

Lab Sample ID: LCS 880-103327/2-A

Matrix: Solid

Analysis Batch: 103292

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 103327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	866.9		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	842.8		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-103327/3-A

Matrix: Solid

Analysis Batch: 103292

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 103327

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1147	*1	mg/Kg		115	70 - 130	28	20
Diesel Range Organics (Over C10-C28)	1000	1263	*1	mg/Kg		126	70 - 130	40	20

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-103327/3-A

Matrix: Solid

Analysis Batch: 103292

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 103327

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	136	S1+	70 - 130

Lab Sample ID: 890-7697-1 MS

Matrix: Solid

Analysis Batch: 103292

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 103327

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1 F1	999	621.2	F1	mg/Kg		62	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U *1 F1	999	660.9	F1	mg/Kg		66	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	70		70 - 130								
o-Terphenyl	72		70 - 130								

Lab Sample ID: 890-7697-1 MSD

Matrix: Solid

Analysis Batch: 103292

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 103327

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1 F1	999	629.2	F1	mg/Kg		63	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U *1 F1	999	682.0	F1	mg/Kg		68	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	70		70 - 130								
o-Terphenyl	72		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-103345/1-A

Matrix: Solid

Analysis Batch: 103357

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/21/25 08:44	1

Lab Sample ID: LCS 880-103345/2-A

Matrix: Solid

Analysis Batch: 103357

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.9		mg/Kg		98	90 - 110

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QC Sample Results

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-103345/3-A

Matrix: Solid

Analysis Batch: 103357

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	248.2		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 890-7697-1 MS

Matrix: Solid

Analysis Batch: 103357

Client Sample ID: CS-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<9.94	U	249	256.3		mg/Kg		100	90 - 110		

Lab Sample ID: 890-7697-1 MSD

Matrix: Solid

Analysis Batch: 103357

Client Sample ID: CS-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<9.94	U	249	256.8		mg/Kg		100	90 - 110	0	20

QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 103131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7697-1	CS-1	Total/NA	Solid	8021B	103318
890-7697-2	CS-2	Total/NA	Solid	8021B	103318
890-7697-3	CS-3	Total/NA	Solid	8021B	103318
890-7697-4	CS-9	Total/NA	Solid	8021B	103318
890-7697-5	CS-12	Total/NA	Solid	8021B	103318
890-7697-6	CS-13	Total/NA	Solid	8021B	103318
MB 880-103263/5-A	Method Blank	Total/NA	Solid	8021B	103263
MB 880-103318/5-A	Method Blank	Total/NA	Solid	8021B	103318
LCS 880-103318/1-A	Lab Control Sample	Total/NA	Solid	8021B	103318
LCSD 880-103318/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	103318

Prep Batch: 103263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-103263/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 103318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7697-1	CS-1	Total/NA	Solid	5035	
890-7697-2	CS-2	Total/NA	Solid	5035	
890-7697-3	CS-3	Total/NA	Solid	5035	
890-7697-4	CS-9	Total/NA	Solid	5035	
890-7697-5	CS-12	Total/NA	Solid	5035	
890-7697-6	CS-13	Total/NA	Solid	5035	
MB 880-103318/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-103318/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-103318/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 103416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7697-1	CS-1	Total/NA	Solid	Total BTEX	
890-7697-2	CS-2	Total/NA	Solid	Total BTEX	
890-7697-3	CS-3	Total/NA	Solid	Total BTEX	
890-7697-4	CS-9	Total/NA	Solid	Total BTEX	
890-7697-5	CS-12	Total/NA	Solid	Total BTEX	
890-7697-6	CS-13	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 103292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7697-1	CS-1	Total/NA	Solid	8015B NM	103327
890-7697-2	CS-2	Total/NA	Solid	8015B NM	103327
890-7697-3	CS-3	Total/NA	Solid	8015B NM	103327
890-7697-4	CS-9	Total/NA	Solid	8015B NM	103327
890-7697-5	CS-12	Total/NA	Solid	8015B NM	103327
890-7697-6	CS-13	Total/NA	Solid	8015B NM	103327
MB 880-103327/1-A	Method Blank	Total/NA	Solid	8015B NM	103327
LCS 880-103327/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	103327
LCSD 880-103327/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	103327
890-7697-1 MS	CS-1	Total/NA	Solid	8015B NM	103327
890-7697-1 MSD	CS-1	Total/NA	Solid	8015B NM	103327

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QC Association Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
SDG: Lea County, NM

GC Semi VOA

Prep Batch: 103327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7697-1	CS-1	Total/NA	Solid	8015NM Prep	
890-7697-2	CS-2	Total/NA	Solid	8015NM Prep	
890-7697-3	CS-3	Total/NA	Solid	8015NM Prep	
890-7697-4	CS-9	Total/NA	Solid	8015NM Prep	
890-7697-5	CS-12	Total/NA	Solid	8015NM Prep	
890-7697-6	CS-13	Total/NA	Solid	8015NM Prep	
MB 880-103327/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-103327/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-103327/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7697-1 MS	CS-1	Total/NA	Solid	8015NM Prep	
890-7697-1 MSD	CS-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 103404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7697-1	CS-1	Total/NA	Solid	8015 NM	
890-7697-2	CS-2	Total/NA	Solid	8015 NM	
890-7697-3	CS-3	Total/NA	Solid	8015 NM	
890-7697-4	CS-9	Total/NA	Solid	8015 NM	
890-7697-5	CS-12	Total/NA	Solid	8015 NM	
890-7697-6	CS-13	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 103345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7697-1	CS-1	Soluble	Solid	DI Leach	
890-7697-2	CS-2	Soluble	Solid	DI Leach	
890-7697-3	CS-3	Soluble	Solid	DI Leach	
890-7697-4	CS-9	Soluble	Solid	DI Leach	
890-7697-5	CS-12	Soluble	Solid	DI Leach	
890-7697-6	CS-13	Soluble	Solid	DI Leach	
MB 880-103345/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-103345/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-103345/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7697-1 MS	CS-1	Soluble	Solid	DI Leach	
890-7697-1 MSD	CS-1	Soluble	Solid	DI Leach	

Analysis Batch: 103357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7697-1	CS-1	Soluble	Solid	300.0	103345
890-7697-2	CS-2	Soluble	Solid	300.0	103345
890-7697-3	CS-3	Soluble	Solid	300.0	103345
890-7697-4	CS-9	Soluble	Solid	300.0	103345
890-7697-5	CS-12	Soluble	Solid	300.0	103345
890-7697-6	CS-13	Soluble	Solid	300.0	103345
MB 880-103345/1-A	Method Blank	Soluble	Solid	300.0	103345
LCS 880-103345/2-A	Lab Control Sample	Soluble	Solid	300.0	103345
LCSD 880-103345/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	103345
890-7697-1 MS	CS-1	Soluble	Solid	300.0	103345
890-7697-1 MSD	CS-1	Soluble	Solid	300.0	103345

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
SDG: Lea County, NM

Client Sample ID: CS-1

Date Collected: 02/20/25 09:30

Date Received: 02/20/25 15:14

Lab Sample ID: 890-7697-1

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			5.03 g	5 mL	103318	02/20/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103131	02/21/25 05:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103416	02/21/25 05:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103404	02/20/25 22:24	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	103327	02/20/25 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103292	02/20/25 22:24	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	103345	02/21/25 08:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103357	02/21/25 09:13	CH	EET MID

Client Sample ID: CS-2

Date Collected: 02/20/25 09:35

Date Received: 02/20/25 15:14

Lab Sample ID: 890-7697-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103318	02/20/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103131	02/21/25 05:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103416	02/21/25 05:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103404	02/20/25 23:12	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	103327	02/20/25 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103292	02/20/25 23:12	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	103345	02/21/25 08:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103357	02/21/25 09:36	CH	EET MID

Client Sample ID: CS-3

Date Collected: 02/20/25 09:40

Date Received: 02/20/25 15:14

Lab Sample ID: 890-7697-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103318	02/20/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103131	02/21/25 05:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103416	02/21/25 05:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103404	02/20/25 23:28	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	103327	02/20/25 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103292	02/20/25 23:28	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	103345	02/21/25 08:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103357	02/21/25 09:43	CH	EET MID

Client Sample ID: CS-9

Date Collected: 02/20/25 09:45

Date Received: 02/20/25 15:14

Lab Sample ID: 890-7697-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103318	02/20/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103131	02/21/25 06:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103416	02/21/25 06:09	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
SDG: Lea County, NM

Client Sample ID: CS-9

Date Collected: 02/20/25 09:45

Date Received: 02/20/25 15:14

Lab Sample ID: 890-7697-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			103404	02/20/25 23:43	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	103327	02/20/25 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103292	02/20/25 23:43	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	103345	02/21/25 08:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103357	02/21/25 09:50	CH	EET MID

Client Sample ID: CS-12

Date Collected: 02/20/25 09:50

Date Received: 02/20/25 15:14

Lab Sample ID: 890-7697-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103318	02/20/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103131	02/21/25 06:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103416	02/21/25 06:29	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103404	02/20/25 23:59	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	103327	02/20/25 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103292	02/20/25 23:59	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	103345	02/21/25 08:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103357	02/21/25 09:58	CH	EET MID

Client Sample ID: CS-13

Date Collected: 02/20/25 09:55

Date Received: 02/20/25 15:14

Lab Sample ID: 890-7697-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	103318	02/20/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	103131	02/21/25 06:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			103416	02/21/25 06:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			103404	02/21/25 00:14	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	103327	02/20/25 20:42	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	103292	02/21/25 00:14	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	103345	02/21/25 08:02	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	103357	02/21/25 10:20	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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

Method Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
SDG: Lea County, NM

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Earth Systems Response and Restoration
Project/Site: Maverick Bass B -4 in Steel Line Lateral

Job ID: 890-7697-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7697-1	CS-1	Solid	02/20/25 09:30	02/20/25 15:14	3
890-7697-2	CS-2	Solid	02/20/25 09:35	02/20/25 15:14	3
890-7697-3	CS-3	Solid	02/20/25 09:40	02/20/25 15:14	3
890-7697-4	CS-9	Solid	02/20/25 09:45	02/20/25 15:14	8
890-7697-5	CS-12	Solid	02/20/25 09:50	02/20/25 15:14	3
890-7697-6	CS-13	Solid	02/20/25 09:55	02/20/25 15:14	3



Environment Testing
Xenco

Chain of Custody

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



890-7697 Chain of Custody

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

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other:	
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Project Name:	Maverick Bass B - 4 in Steel Line Lateral	Turn Around	☐ Routine ☒ Rush	Pres. Code	
Project Number:	2780	Due Date:	24 HR Rush TAT		
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Gilbert Moreno				
POWVO #:					
SAMPLE RECEIPT Temp Blank: ☒ Yes ☒ No Thermometer ID: <i>Thermometer 7</i> Cooler Custody Seals: ☒ Yes ☒ No Sample Custody Seals: ☒ Yes ☒ No Total Containers: <i>1, 1, 1</i>		Wet Ice: ☒ Yes ☒ No Parameters			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth (feet)	Grab/Comp	# of Cont	TPH -NM	Chloride-NM	BTEX-NM	Hold	24 Hr Rush	ANALYSIS REQUEST	Preservative Codes
CS-1	S	2.20.25	9:30	3	Comp	1	X	X	X	X			None: NO DI Water: H ₂ O
CS-2	S	2.20.25	9:35	3	Comp	1	X	X	X	X			Cool: Cool MeOH: Me
CS-3	S	2.20.25	9:40	3	Comp	1	X	X	X	X			HCL: HC HNO ₃ : HN
CS-9	S	2.20.25	9:45	8	Comp	1	X	X	X	X			H ₂ SO ₄ : H ₂ NaOH: Na
CS-12	S	2.20.25	9:50	3	Comp	1	X	X	X	X			H ₃ PO ₄ : HP NaHSO ₄ : NABIS
CS-13	S	2.20.25	9:55	3	Comp	1	X	X	X	X			Na ₂ S ₂ O ₅ : NaSO ₃ Zn Acetate+NaOH: Zn
<i>Calbrit</i>													NaOH+Ascorbic Acid: SAPC

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

Circle Method(s) and Metal(s) to be analyzed Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Calbrit</i>	<i>Calbrit</i>	7.14.20			

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7697-1

SDG Number: Lea County, NM

Login Number: 7697

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Earth Systems Response and Restoration

Job Number: 890-7697-1
SDG Number: Lea County, NM

Login Number: 7697
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 02/20/25 09:00 PM

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

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 442976

QUESTIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airport Lane Midland, TX 79705	OGRID: 221115
	Action Number: 442976
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500736173
Incident Name	NAPP2500736173 MAVERICK BASS B - 4 IN STEEL LINE LATERAL @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	MAVERICK BASS B - 4 IN STEEL LINE LATERAL
Date Release Discovered	01/07/2025
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

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

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Cause: High Line Pressure Pipeline (Any) Crude Oil Released: 9 BBL Recovered: 0 BBL Lost: 9 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 442976

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 442976
	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	<i>Unavailable.</i>
<i>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.</i>	

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	<i>Not answered.</i>

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: Sebastian Orozco Title: Sr. Environmental Specialist Email: sorozco@kinetik.com Date: 01/07/2025
--	---

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

General Information
Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 442976

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airport Lane Midland, TX 79705	OGRID:
	221115
	Action Number:
	442976
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 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	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<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)	9610
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	15800
GRO+DRO (EPA SW-846 Method 8015M)	15800
BTEX (EPA SW-846 Method 8021B or 8260B)	1130
Benzene (EPA SW-846 Method 8021B or 8260B)	45.4

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	02/03/2025
On what date will (or did) the final sampling or liner inspection occur	02/20/2025
On what date will (or was) the remediation complete(d)	02/25/2025
What is the estimated surface area (in square feet) that will be reclaimed	2600
What is the estimated volume (in cubic yards) that will be reclaimed	400
What is the estimated surface area (in square feet) that will be remediated	2600
What is the estimated volume (in cubic yards) that will be remediated	400

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Sante Fe Main Office
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General Information
Phone: (505) 629-6116

Online Phone Directory
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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 442976

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 442976
	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	LEA LAND LANDFILL [fEEM0112342028]
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: Sebastian Orozco Title: Sr. Environmental Specialist Email: sorozco@kinetik.com Date: 03/17/2025
<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 442976

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 442976
	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 442976

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 442976
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	432509
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/20/2025
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	1200

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	2600
What was the total volume (cubic yards) remediated	400
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	2600
What was the total volume (in cubic yards) reclaimed	400
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: Sebastian Orozco Title: Sr. Environmental Specialist Email: sorozco@kinetik.com Date: 03/17/2025

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QUESTIONS, Page 7

Action 442976

QUESTIONS (continued)

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 442976
	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 442976

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 303 Veterans Airpark Lane Midland, TX 79705	OGRID: 221115
	Action Number: 442976
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	4/4/2025